

### Shoreline Character Zones – Summary Pages

|                  |                       |                       |
|------------------|-----------------------|-----------------------|
| <b>WATERSHED</b> | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b> |
| OKANOGAN RIVER   | AENEAS LAKE           | L AEN 00              |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |                             |                 |
|------------|-----------------------------|-----------------|
| Column Key | (a) Number of Parcels       | (g) Industrial  |
|            | (b) Parcels Analyzed        | (h) Mining      |
|            | (c) Unknown Use             | (i) Public Use  |
|            | (d) Number of Water Parcels | (j) Residential |
|            | (e) Agriculture             | (k) Resort/Camp |
|            | (f) Commercial              | (l) Undeveloped |

|             | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L AEN 00    | 16  | 14  | 1   | 1   | 21% | 0%  | 0%  | 0%  | 7%  | 43% | 0%  | 29% |
| Totals/Avg: | 16  | 14  | 1   | 1   | 21% | 0%  | 0%  | 0%  | 7%  | 43% | 0%  | 29% |

**Comprehensive Plan Designations**

Unclassified  
WATER

**Public Access Points**

DEVELOPED: 1  
UNDEVELOPED:  
INFORMAL:  
UNKNOWN: 1

**Zoning**

MINREQ  
WATER

**Structures**

|              |           |
|--------------|-----------|
| L AEN 00     | 26        |
| <b>Total</b> | <b>26</b> |

**Current Shoreline Designations**

L AEN 00      RUR  
                         WATER

**Overwater Structures**

L AEN 00      1 ramp

**Quad Score**

|                  | Score 1     | Score 2     | Quad Score |
|------------------|-------------|-------------|------------|
| L AEN 00         | 0.80        | 0.27        | 1          |
| <b>Averages:</b> | <b>0.80</b> | <b>0.27</b> | <b>1</b>   |

**Setbacks**

|                  | Avg           | Max           | Min         | Std Dev      |
|------------------|---------------|---------------|-------------|--------------|
| L AEN 00         | 161.33        | 290.00        | 2.00        | 92.23        |
| <b>Averages:</b> | <b>161.33</b> | <b>290.00</b> | <b>2.00</b> | <b>92.23</b> |

**Subdivision Density**

|                 |             |
|-----------------|-------------|
| L AEN 00        | 0.44        |
| <b>Average:</b> | <b>0.44</b> |

**Narrative**

Aeneas Lake is located in Section 25 T37N R26E. The lake measures 52.6 acres and is banded by a narrow strip of vegetation. An intermittent creek provides inflow, but there is no outflow. The lake is surrounded by some residential development and undeveloped lands within a matrix of agriculture, orchards, and range lands. A public access boat launch is operated by WDFW in the SE corner of the Lake and a common open space exists in the NE corner adjacent to a short plat.

**Recommendations**

### Shoreline Character Zones – Summary Pages

|                  |                       |                       |
|------------------|-----------------------|-----------------------|
| <b>WATERSHED</b> | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b> |
| OKANOGAN RIVER   | ALBRIGHT LAKE         | L ALB 00              |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |  |   |
|------------|--|---|
| Column Key | (a) Number of Parcels<br>(b) Parcels Analyzed<br>(c) Unknown Use<br>(d) Number of Water Parcels<br>(e) Agriculture<br>(f) Commercial | (g) Industrial<br>(h) Mining<br>(i) Public Use<br>(j) Residential<br>(k) Resort/Camp<br>(l) Undeveloped |
|------------|--|---|

|             | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L ALB 00    | 6   | 6   | 0   | 0   | 33% | 0%  | 0%  | 0%  | 17% | 0%  | 0%  | 50% |
| Totals/Avg: | 6   | 6   | 0   | 0   | 33% | 0%  | 0%  | 0%  | 17% | 0%  | 0%  | 50% |

| Comprehensive Plan Designations | Public Access Points                                    | Zoning |
|---------------------------------|---|--------|
| Unclassified                    | 2 DEVELOPED: 1<br>UNDEVELOPED:<br>INFORMAL:<br>UNKNOWN: | MINREQ |

| Structures                                       | Current Shoreline Designations                   |
|--|--|
| L ALB 00 <span style="float: right;">0</span>    | L ALB 00 <span style="float: right;">CONS</span> |
| <hr/> Total <span style="float: right;">0</span> |  |

| Overwater Structures                             | QuadScore                            |
|--|--------------------------------------|
| L ALB 00 <span style="float: right;">none</span> |                                      |
|  | Score 1    Score 2    Quad Score     |
|  | L ALB 00    0.82    0.47    1        |
|  | <hr/> Averages:    0.82    0.47    1 |

| Setbacks   | Subdivision Density                                |
|--|--|
| Avg                      Max                      Min                      Std Dev |  |
| L ALB 00   | 2 L ALB 00 <span style="float: right;">0.20</span> |
| Averages:  | Average: <span style="float: right;">0.20</span>   |

**Narrative**

Albright Lake, also known as Peninsula Lake, is located in Section 7 of T35N R26E with an area of 21.4 acres. The lake is undeveloped and surrounded by WDFW lands to the southwest and private range lands to northeast. There is a developed access point located in the SW corner on WDFW property. Vegetation around lake is limited and the alkaline water chemistry cannot support fish life.

**Recommendations**

### Shoreline Character Zones – Summary Pages

|                  |                       |                       |
|------------------|-----------------------|-----------------------|
| <b>WATERSHED</b> | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b> |
| OKANOGAN RIVER   | ALKALI LAKE           | L ALK 00              |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |                             |                 |
|------------|-----------------------------|-----------------|
| Column Key | (a) Number of Parcels       | (g) Industrial  |
|            | (b) Parcels Analyzed        | (h) Mining      |
|            | (c) Unknown Use             | (i) Public Use  |
|            | (d) Number of Water Parcels | (j) Residential |
|            | (e) Agriculture             | (k) Resort/Camp |
|            | (f) Commercial              | (l) Undeveloped |

|             | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L ALK 00    | 25  | 24  | 0   | 1   | 0%  | 0%  | 0%  | 0%  | 0%  | 25% | 0%  | 75% |
| Totals/Avg: | 25  | 24  | 0   | 1   | 0%  | 0%  | 0%  | 0%  | 0%  | 25% | 0%  | 75% |

|  |                             |               |
|--|-----------------------------|---------------|
| <b>Comprehensive Plan Designations</b> | <b>Public Access Points</b> | <b>Zoning</b> |
| Unclassified                           |                             | MINREQ        |
| WATER                                  |                             | WATER         |

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| <b>Structures</b>                     | <b>Current Shoreline Designations</b> |
| L ALK 00                      11      | L ALK 00                      CONS    |
| Total                              11 | WATER                                 |

|                                    |                                  |
|------------------------------------|----------------------------------|
| <b>Overwater Structures</b>        | <b>QuadScore</b>                 |
| L ALK 00                      none |                                  |
|                                    | Score 1    Score 2    Quad Score |
|                                    | L ALK 00    0.88    0.35    2    |
|                                    | Averages:    0.88    0.35    2   |

|  |                                      |
|--|--------------------------------------|
| <b>Setbacks</b>  | <b>Subdivision Density</b>           |
| Avg                      Max                      Min                      Std Dev                                       |                                      |
| L ALK 00                      181.11                      400.00                      70.00                      118.68  | 3 L ALK 00                      0.53 |
| Averages:                      181.11                      400.00                      70.00                      118.68 | Average:                      0.53   |

**Narrative**

Alkali Lake is located in Section 22 of T35N R26E. Alkali lake is a kettle lake with an area of 63.8 and a shoreline perimeter measuring 2 miles. The lake is surrounded by private land that is roughly 1/3 developed amidst undeveloped lands. No developed Public access is available on the lake. The water in Alkali lake is considered alkaline, displaying a greenish blue tinge and it's water chemistry cannot support fish.

**Recommendations**

### Shoreline Character Zones – Summary Pages

|                  |                       |                       |
|------------------|-----------------------|-----------------------|
| <b>WATERSHED</b> | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b> |
| LOWER METHOW     | ALTA LAKE             | L ALT 00              |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |                             |                 |
|------------|-----------------------------|-----------------|
| Column Key | (a) Number of Parcels       | (g) Industrial  |
|            | (b) Parcels Analyzed        | (h) Mining      |
|            | (c) Unknown Use             | (i) Public Use  |
|            | (d) Number of Water Parcels | (j) Residential |
|            | (e) Agriculture             | (k) Resort/Camp |
|            | (f) Commercial              | (l) Undeveloped |

|             | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L ALT 00    | 75  | 70  | 5   | 0   | 19% | 0%  | 0%  | 0%  | 4%  | 60% | 10% | 7%  |
| Totals/Avg: | 75  | 70  | 5   | 0   | 19% | 0%  | 0%  | 0%  | 4%  | 60% | 10% | 7%  |

| Comprehensive Plan Designations | Public Access Points | Zoning          |
|---------------------------------|----------------------|-----------------|
| Rec Res                         | 4                    | MINREQ<br>WATER |
| TC                              |                      |                 |
| Unclassified                    |                      |                 |
| WATER                           |                      |                 |
|                                 | DEVELOPED: 1         |                 |
|                                 | UNDEVELOPED:         |                 |
|                                 | INFORMAL:            |                 |
|                                 | UNKNOWN: 1           |                 |

| Structures | Current Shoreline Designations |
|------------|--------------------------------|
| L ALT 00   | L ALT 00                       |
| 16         | CONS                           |
| Total      | WATER                          |
| 16         |                                |

| Overwater Structures | QuadScore                        |
|----------------------|----------------------------------|
| L ALT 00             | 4 docks                          |
|                      | Score 1    Score 2    Quad Score |
|                      | L ALT 00    0.72    0.35    1    |
|                      | Averages:    0.72    0.35    1   |

| Setbacks   | Subdivision Density                  |
|--|--------------------------------------|
| Avg                      Max                      Min                      Std Dev | 4 L ALT 00                      1.41 |
| L ALT 00   | Average:                      1.41   |
| Averages:  |                                      |

**Narrative**

Alta Lake is located in Section 15, T29N R23E. Alta Lake is 219.6 acres and measures about two miles long and half mile wide. The lake sits in a coulee at the base of steep forested and shrub steppe terrain. The lake contains no inflow or outflow. The north and eastern shoreline houses Alta Lake State Park, where a campground, and trails provide visual and direct access to the lakeside including two boat launch ramps. Residential development for seasonal and full time homes exists along the western, northeastern and southern shores. The USFS owns a large portion of the east and west shorelines at the south end of the lake. Alta Lake is used for fishing, motor boating, and swimming.

**Recommendations**

### Shoreline Character Zones – Summary Pages

|                      |                       |                       |
|----------------------|-----------------------|-----------------------|
| <b>WATERSHED</b>     | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b> |
| UPPER OKANOGAN RIVER | ANTOINE CREEK         | S ANT 01              |
|                      |                       | S ANT 02              |
|                      |                       | S ANT 03              |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |  |   |
|------------|--|---|
| Column Key | (a) Number of Parcels<br>(b) Parcels Analyzed<br>(c) Unknown Use<br>(d) Number of Water Parcels<br>(e) Agriculture<br>(f) Commercial | (g) Industrial<br>(h) Mining<br>(i) Public Use<br>(j) Residential<br>(k) Resort/Camp<br>(l) Undeveloped |
|------------|--|---|

|             | (a) | (b) | (c) | (d) | (e)  | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| S ANT 01    | 26  | 25  | 1   | 0   | 100% | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  |
| S ANT 02    | 6   | 6   | 0   | 0   | 100% | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  |
| S ANT 03    | 6   | 6   | 0   | 0   | 83%  | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  | 17% |
| Totals/Avg: | 38  | 37  | 1   | 0   | 94%  | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  | 6%  |

| Comprehensive Plan Designations | Public Access Points | Zoning |
|---------------------------------|----------------------|--------|
| IA                              |                      | MINREQ |
| Unclassified                    |                      |        |
| Unclassified                    |                      |        |
| Unclassified                    |                      |        |

| Structures | Current Shoreline Designations |
|------------|--------------------------------|
| S ANT 01   | S ANT 01    RUR                |
| S ANT 02   | S ANT 02    RUR                |
| S ANT 03   | S ANT 03    RUR                |
| Total      |                                |

| Overwater Structures | QuadScore                        |
|----------------------|----------------------------------|
| S ANT 01    2        | Score 1    Score 2    Quad Score |
| S ANT 02    1        | S ANT 01    0.77    0.56    3    |
| S ANT 03    1        | S ANT 02    0.88    0.26    2    |
|                      | S ANT 03    0.81    0.27    1    |
|                      | Averages:    0.82    0.36    2   |

| Setbacks   | Subdivision Density |
|--|---------------------|
|  | 7 S ANT 01    0.15  |
| S ANT 01    Avg    Max    Min    Std Dev           | 8 S ANT 02    0.13  |
| S ANT 01    620.00    1010.00    230.00    551.54  | 9 S ANT 03    0.18  |
| S ANT 02   |                     |
| S ANT 03   | Average:    0.15    |
| Averages:    620.00    1010.00    230.00    551.54 |                     |

**Narrative**

Antoine Creek joins the mainstem of the Okanogan River at RM 61.2. The Antoine Creek Character Zone reaches approximately 5 miles and is oriented in a east-west direction. The creek drains a dry landscape of shrub and rangelands, with some irrigated fields through a narrow, steep-sided canyon noted for erosive gullies exacerbated by hoof wear. Management issues include bank erosion, noxious weeds, and heavy grazing.

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## **Recommendations**

### Shoreline Character Zones – Summary Pages

|                  |                       |  |
|------------------|-----------------------|--|
| <b>WATERSHED</b> | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b>                        |
| MIDDLE METHOW    | BEAVER CREEK          | S BEA 01<br>S BEA 02<br>S BEA 03<br>S BEA 04 |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |  |   |
|------------|--|---|
| Column Key | (a) Number of Parcels<br>(b) Parcels Analyzed<br>(c) Unknown Use<br>(d) Number of Water Parcels<br>(e) Agriculture<br>(f) Commercial | (g) Industrial<br>(h) Mining<br>(i) Public Use<br>(j) Residential<br>(k) Resort/Camp<br>(l) Undeveloped |
|------------|--|---|

|              | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i)  | (j) | (k) | (l) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|
| S BEA 01     | 34  | 33  | 1   | 0   | 42% | 0%  | 0%  | 0%  | 0%   | 48% | 0%  | 9%  |
| S BEA 02     | 18  | 18  | 0   | 0   | 89% | 0%  | 0%  | 0%  | 0%   | 11% | 0%  | 0%  |
| S BEA 03     | 25  | 24  | 1   | 0   | 25% | 0%  | 0%  | 0%  | 17%  | 21% | 0%  | 38% |
| S BEA 04     | 6   | 5   | 1   | 0   | 0%  | 0%  | 0%  | 0%  | 100% | 0%  | 0%  | 0%  |
| Totals/Avgs: | 83  | 80  | 3   | 0   | 39% | 0%  | 0%  | 0%  | 29%  | 20% | 0%  | 12% |

|  |                            |               |
|--|----------------------------|---------------|
| <b>Comprehensive Plan Designations</b> | <b>PublicAccess Points</b> | <b>Zoning</b> |
| Sub-Unit C                             |                            | Uplands       |
| Sub-Unit C                             |                            | Valley Floor  |
| Sub-Unit C                             |                            |               |
| Sub-Unit D                             |                            |               |
| Unclassified                           |                            |               |
| Unclassified                           |                            |               |

|                   |                                       |          |              |
|-------------------|---------------------------------------|----------|--------------|
| <b>Structures</b> | <b>Current Shoreline Designations</b> |          |              |
| S BEA 01          | 54                                    | S BEA 01 | RUR          |
| S BEA 02          | 30                                    | S BEA 02 | RUR          |
| S BEA 03          | 9                                     | S BEA 03 | RUR          |
| S BEA 04          |                                       |          | Undesignated |
| S BEA 04          |                                       | S BEA 04 | Undesignated |
| Total             | 93                                    |          |              |

|                             |                  |           |         |         |            |
|-----------------------------|------------------|-----------|---------|---------|------------|
| <b>Overwater Structures</b> | <b>QuadScore</b> |           |         |         |            |
| S BEA 01                    | 2                |           | Score 1 | Score 2 | Quad Score |
| S BEA 02                    | none             | S BEA 01  | 0.75    | 0.66    | 3          |
| S BEA 03                    | 3                | S BEA 02  | 0.88    | 0.68    | 4          |
| S BEA 04                    | 1                | S BEA 03  | 0.89    | 0.65    | 4          |
|                             |                  | S BEA 04  | 0.93    | 0.67    | 4          |
|                             |                  | Averages: | 0.86    | 0.67    | 4          |

|                 |                            |     |         |   |          |      |
|-----------------|----------------------------|-----|---------|---|----------|------|
| <b>Setbacks</b> | <b>Subdivision Density</b> |     |         |   |          |      |
|                 |                            |     |         |   |          |      |
| Avg             | Max                        | Min | Std Dev | 0 | S BEA 01 | 0.25 |

|           |        |        |        |        |          |      |
|-----------|--------|--------|--------|--------|----------|------|
| S BEA 01  | 238.42 | 530.00 | 80.00  | 117.58 | S BEA 02 | 0.13 |
| S BEA 02  | 302.00 | 800.00 | 100.00 | 197.59 | S BEA 03 | 0.25 |
| S BEA 03  | 220.00 | 340.00 | 100.00 | 169.71 | S BEA 04 | 0.08 |
| S BEA 04  |        |        |        |        | Average: | 0.18 |
| Averages: | 253.47 | 556.67 | 93.33  | 161.62 |          |      |

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**Narrative**

The Beaver Creek Character Zone includes those shorelines below the 20 cfs point in the lower 9 miles of the Beaver Creek. Beaver Creek is a high-moderate gradient, north/south creek draining mountainous terrain and undulating range lands. The creek enters the Methow River at RM 35. The shorelines are privately owned with the exception of the middle and upper reaches that lie within Department of Fish and Wildlife and Okanogan National Forest ownerships. Land uses along Beaver Creek are dominated by open range grazing, some irrigated fields and dispersed rural residences. There is no public access to the creek within the lower 7 miles except for that provided at bridge crossings.

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**Recommendations**

### Shoreline Character Zones – Summary Pages

|                  |                       |                       |
|------------------|-----------------------|-----------------------|
| <b>WATERSHED</b> | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b> |
| MIDDLE METHOW    | BIG TWIN LAKE         | L BIG 00              |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |  |   |
|------------|--|---|
| Column Key | (a) Number of Parcels<br>(b) Parcels Analyzed<br>(c) Unknown Use<br>(d) Number of Water Parcels<br>(e) Agriculture<br>(f) Commercial | (g) Industrial<br>(h) Mining<br>(i) Public Use<br>(j) Residential<br>(k) Resort/Camp<br>(l) Undeveloped |
|------------|--|---|

|             | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| L BIG 00    | 36  | 31  | 4   | 1   | 0%  | 0%  | 0%  | 0%  | 3%  | 52% | 3%  | 42% |
| Totals/Avg: | 36  | 31  | 4   | 1   | 0%  | 0%  | 0%  | 0%  | 3%  | 52% | 3%  | 42% |

**Comprehensive Plan Designations**

Sub-Unit B  
WATER

**Public Access Points**

7 DEVELOPED: 2  
UNDEVELOPED:  
INFORMAL:  
UNKNOWN:

**Zoning**

Valley Floor  
WATER

**Structures**

|              |           |
|--------------|-----------|
| L BIG 00     | 11        |
| <b>Total</b> | <b>11</b> |

**Current Shoreline Designations**

L BIG 00      CONS  
WATER

**Overwater Structures**

L BIG 00      1 dock

**Quad Score**

|                  | Score 1 | Score 2 | Quad Score |
|------------------|---------|---------|------------|
| L BIG 00         | 0.78    | 0.39    | 1          |
| <b>Averages:</b> | 0.78    | 0.39    | 1          |

**Setbacks**

|                  | Avg    | Max    | Min    | Std Dev |
|------------------|--------|--------|--------|---------|
| L BIG 00         | 417.78 | 690.00 | 120.00 | 196.84  |
| <b>Averages:</b> | 417.78 | 690.00 | 120.00 | 196.84  |

**Subdivision Density**

|   |          |      |
|---|----------|------|
| 5 | L BIG 00 | 0.81 |
|   | Average: | 0.81 |

**Narrative**

Big Twin Lake is located in Section 15 T34N R21E. A kettle lake, Big Twin Lake is a deep depression lined by steep slopes to the SW, S, and East, while the Northern shoreline is a more gradual slope. It is fed by groundwater and supports a trout fishery. The lake measures 65.4 acres with a perimeter of 2 miles. WDFW owns a large portion of shoreline in the sw corner for fishing access as well as a boat launch in the NE corner of the lake. The surrounding land uses are rural residential and a private RV campground.

**Recommendations**

### Shoreline Character Zones – Summary Pages

|                      |                       |                       |
|----------------------|-----------------------|-----------------------|
| <b>WATERSHED</b>     | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b> |
| UPPER OKANOGAN RIVER | BLUE LAKE             | L BLU 00              |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |  |   |
|------------|--|---|
| Column Key | (a) Number of Parcels<br>(b) Parcels Analyzed<br>(c) Unknown Use<br>(d) Number of Water Parcels<br>(e) Agriculture<br>(f) Commercial | (g) Industrial<br>(h) Mining<br>(i) Public Use<br>(j) Residential<br>(k) Resort/Camp<br>(l) Undeveloped |
|------------|--|---|

|             | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j)  | (k) | (l) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| L BLU 00    | 13  | 1   | 12  | 0   | 0%  | 0%  | 0%  | 0%  | 0%  | 100% | 0%  | 0%  |
| Totals/Avg: | 13  | 1   | 12  | 0   | 0%  | 0%  | 0%  | 0%  | 0%  | 100% | 0%  | 0%  |

**Comprehensive Plan Designations**

Unclassified

**Public Access Points**

8 DEVELOPED: 3  
UNDEVELOPED:  
INFORMAL:  
UNKNOWN: 1

**Zoning**

MINREQ

**Structures**

|              |          |
|--------------|----------|
| L BLU 00     | 1        |
| <b>Total</b> | <b>1</b> |

**Current Shoreline Designations**

L BLU 00      CONS

**Overwater Structures**

L BLU 00      none

**Quad Score**

|                  | Score 1 | Score 2 | Quad Score |
|------------------|---------|---------|------------|
| L BLU 00         | 0.88    | 0.53    | 2          |
| <b>Averages:</b> | 0.88    | 0.53    | 2          |

**Setbacks**

|                  | Avg    | Max    | Min    | Std Dev |
|------------------|--------|--------|--------|---------|
| L BLU 00         | 300.00 | 300.00 | 300.00 | 0.00    |
| <b>Averages:</b> | 300.00 | 300.00 | 300.00 | 0.00    |

**Subdivision Density**

|                 |             |
|-----------------|-------------|
| 8 L BLU 00      | 0.02        |
| <b>Average:</b> | <b>0.02</b> |

**Narrative**

Blue Lake is located in 22 of T39N R27E. This kettle lake measures 205 acres. The lake is surrounded by private land with only one structure on the shoreline to date. There is a WDFW access point at the SW corner of the lake. The water in Blue Lake is considered alkaline, displaying a greenish blue tinge and its water chemistry cannot support fish.

**Recommendations**

### Shoreline Character Zones – Summary Pages

| WATERSHED        | CHARACTER ZONE  | ANALYSIS UNITS       |
|------------------|-----------------|----------------------|
| SINLAHEKIN RIVER | BLUE LAKE (SIN) | L BLS 01<br>L BLS 02 |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

| Column Key | (a) Number of Parcels       | (g) Industrial  |
|------------|-----------------------------|-----------------|
|            | (b) Parcels Analyzed        | (h) Mining      |
|            | (c) Unknown Use             | (i) Public Use  |
|            | (d) Number of Water Parcels | (j) Residential |
|            | (e) Agriculture             | (k) Resort/Camp |
|            | (f) Commercial              | (l) Undeveloped |

|              | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i)  | (j) | (k) | (l) |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|
| L BLS 01     | 10  | 8   | 1   | 1   | 0%  | 0%  | 0%  | 0%  | 100% | 0%  | 0%  | 0%  |
| L BLS 02     | 4   | 4   | 0   | 0   | 0%  | 0%  | 0%  | 0%  | 100% | 0%  | 0%  | 0%  |
| Totals/Avgs: | 14  | 12  | 1   | 1   | 0%  | 0%  | 0%  | 0%  | 100% | 0%  | 0%  | 0%  |

| Comprehensive Plan Designations | PublicAccess Points | Zoning |
|---------------------------------|---------------------|--------|
| Unclassified                    |                     | MINREQ |
| Unclassified                    |                     | WATER  |
| WATER                           |                     |        |

| Structures | Current Shoreline Designations |
|------------|--------------------------------|
| L BLS 01   | L BLS 01    CONS               |
| L BLS 02   | WATER                          |
| Total      | L BLS 02    CONS               |

| Overwater Structures | QuadScore                        |
|----------------------|----------------------------------|
| L BLS 01    none     | Score 1    Score 2    Quad Score |
| L BLS 02    none     | L BLS 01    0.96    0.38    2    |
|                      | L BLS 02    0.97    0.41    2    |
|                      | Averages:    0.97    0.40    2   |

| Setbacks   | Subdivision Density        |
|--|----------------------------|
| Avg            Max            Min            Std Dev | 6 L BLS 01            0.17 |
| L BLS 01   | 7 L BLS 02            0.08 |
| L BLS 02   | Average:            0.12   |
| Averages:  |                            |

**Narrative**

Blue Lake is located in Section 22 T37N R25E. The 205 acre lake, is a storage reservoir built by the Whitestone Reclamation District in 1923. During periods of high water, flows are diverted from Sinlahekin creek into the Lake to provide groundwater recharge for Sinlahekin Creek to maintain flows in the Creek for irrigators and fish during the summer months, however there is only outflow from the Lake into the Creek during periodic high spring runoff. The Blue Lake Dam, constructed by the WRD did not hold water and was abandoned by 1934.

The entire shoreline is owned by WDFW and there are four public access points, three with trailer launch

ramps, one with a hand launch site along the eastern shoreline.

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## **Recommendations**

### Shoreline Character Zones – Summary Pages

| WATERSHED         | CHARACTER ZONE  | ANALYSIS UNITS |
|-------------------|-----------------|----------------|
| I BONAPARTE CREEK | BONAPARTE CREEK | S BON 02       |
|                   |                 | S BON 03       |
|                   |                 | S BON 04       |
|                   |                 | S BON 05       |
|                   |                 | S BON 06       |
|                   |                 | S BON 07       |
|                   |                 | S BON 08       |
|                   |                 | S BON 09       |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |                             |                 |
|------------|-----------------------------|-----------------|
| Column Key | (a) Number of Parcels       | (g) Industrial  |
|            | (b) Parcels Analyzed        | (h) Mining      |
|            | (c) Unknown Use             | (i) Public Use  |
|            | (d) Number of Water Parcels | (j) Residential |
|            | (e) Agriculture             | (k) Resort/Camp |
|            | (f) Commercial              | (l) Undeveloped |

|              | (a) | (b) | (c) | (d) | (e)  | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|--------------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| S BON 02     | 66  | 66  | 0   | 0   | 48%  | 0%  | 0%  | 0%  | 0%  | 27% | 0%  | 24% |
| S BON 03     | 7   | 7   | 0   | 0   | 100% | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  |
| S BON 04     | 30  | 30  | 0   | 0   | 30%  | 0%  | 0%  | 0%  | 0%  | 50% | 0%  | 20% |
| S BON 05     | 16  | 16  | 0   | 0   | 38%  | 0%  | 0%  | 0%  | 0%  | 44% | 0%  | 19% |
| S BON 06     | 12  | 12  | 0   | 0   | 75%  | 0%  | 0%  | 0%  | 0%  | 25% | 0%  | 0%  |
| S BON 07     | 8   | 7   | 1   | 0   | 71%  | 0%  | 0%  | 0%  | 0%  | 29% | 0%  | 0%  |
| S BON 08     | 9   | 7   | 2   | 0   | 86%  | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  | 14% |
| S BON 09     | 26  | 24  | 2   | 0   | 54%  | 0%  | 4%  | 0%  | 0%  | 25% | 0%  | 17% |
| Totals/Avgs: | 174 | 169 | 5   | 0   | 63%  | 0%  | 1%  | 0%  | 0%  | 25% | 0%  | 12% |

**Comprehensive Plan Designations**

Unclassified  
 Unclassified  
 Unclassified  
 Unclassified  
 Unclassified  
 Unclassified  
 Unclassified  
 Unclassified

**PublicAccess Points**

0 DEVELOPED:  
 UNDEVELOPED: 1  
 INFORMAL:  
 UNKNOWN:

**Zoning**

MINREQ

**Structures**

|          |    |
|----------|----|
| S BON 02 | 31 |
| S BON 03 | 6  |
| S BON 04 |    |
| S BON 05 |    |
| S BON 06 |    |

**Current Shoreline Designations**

|          |              |
|----------|--------------|
| S BON 02 | RUR          |
| S BON 03 | RUR          |
| S BON 04 | RUR          |
|          | Undesignated |
| S BON 05 | Undesignated |
| S BON 06 | Undesignated |

|          |    |
|----------|----|
| S BON 07 |    |
| S BON 08 |    |
| S BON 09 | 6  |
| Total    | 43 |

|          |              |
|----------|--------------|
| S BON 07 | Undesignated |
| S BON 08 | Undesignated |
| S BON 09 | Undesignated |

| Overwater Structures |      | QuadScore |         |            |   |
|----------------------|------|-----------|---------|------------|---|
|                      |      | Score 1   | Score 2 | Quad Score |   |
| S BON 02             | 7    |           |         |            |   |
| S BON 03             | none | S BON 02  | 0.79    | 0.35       | 1 |
| S BON 04             | 1    | S BON 03  | 0.89    | 0.26       | 2 |
| S BON 05             | 2    | S BON 04  | 0.86    | 0.24       | 2 |
| S BON 06             | 1    | S BON 05  | 0.81    | 0.33       | 1 |
| S BON 07             | none | S BON 06  | 0.84    | 0.45       | 2 |
| S BON 08             | none | S BON 07  | 0.92    | 0.49       | 2 |
| S BON 09             | 5    | S BON 08  | 0.93    | 0.45       | 2 |
|                      |      | S BON 09  | 0.83    | 0.28       | 2 |
|                      |      | Averages: | 0.86    | 0.36       | 2 |

| Setbacks  |        |        |        |         | Subdivision Density |      |
|-----------|--------|--------|--------|---------|---------------------|------|
|           | Avg    | Max    | Min    | Std Dev |                     |      |
| S BON 02  | 171.18 | 330.00 | 40.00  | 92.46   | S BON 02            | 0.27 |
| S BON 03  | 105.00 | 180.00 | 30.00  | 106.07  | S BON 03            | 0.09 |
| S BON 04  |        |        |        |         | S BON 04            | 0.32 |
| S BON 05  |        |        |        |         | S BON 05            | 0.24 |
| S BON 06  |        |        |        |         | S BON 06            | 0.15 |
| S BON 07  |        |        |        |         | S BON 07            | 0.06 |
| S BON 08  |        |        |        |         | S BON 08            | 0.04 |
| S BON 09  | 535.00 | 680.00 | 390.00 | 205.06  | S BON 09            | 0.10 |
| Averages: |        |        |        |         | Average:            | 0.16 |
|           | 270.39 | 396.67 | 153.33 | 134.53  |                     |      |

### Narrative

Bonaparte Creek drains roughly 98,738 (HUC 10) – 102,120 (SubBasin Plan) acres of sparsely developed range lands. This 4th order stream flows 24 miles from its headwaters in the east and winds westward to meet the Okanogan River at the city of Tonasket at Okanogan RM 56.7. The creek begins at a gentle gradient supporting a variable width of riparian vegetation and wetlands in its upper reaches. A complex wetland/riparian band can be found at its confluence with Peony Creek. The creek then flows through steeper terrain into a narrow canyon eventually cascading over a natural fall at river mile 1.0—just east of the city. This is where the Bonaparte Creek Character Zone ends. The falls create a natural barrier to fish migration, though resident trout and sculpin can be found above the falls. The entire creek is surrounded by private land, primarily used for agricultural grazing. The canyon section holds high potential for wildlife in a relatively undeveloped environment although issues related to winter grazing, hoof sheer erosion, lack of cover and invasive species were noted in the Sub Basin Plan. No known public access exists along its shorelines although the canyon is visible in the vicinity of the falls via an unofficial overlook at the Hwy 20 Bridge.

### Recommendations

### Shoreline Character Zones – Summary Pages

|                  |                       |                       |
|------------------|-----------------------|-----------------------|
| <b>WATERSHED</b> | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b> |
| OKANOGAN RIVER   | BONAPARTE LAKE        | L BON 01              |
|                  |                       | L BON 02              |
|                  |                       | L BON 03              |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |  |   |
|------------|--|---|
| Column Key | (a) Number of Parcels<br>(b) Parcels Analyzed<br>(c) Unknown Use<br>(d) Number of Water Parcels<br>(e) Agriculture<br>(f) Commercial | (g) Industrial<br>(h) Mining<br>(i) Public Use<br>(j) Residential<br>(k) Resort/Camp<br>(l) Undeveloped |
|------------|--|---|

|             | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i)  | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|
| L BON 01    | 4   | 3   | 1   | 0   | 67% | 0%  | 0%  | 0%  | 0%   | 33% | 0%  | 0%  |
| L BON 02    | 4   | 3   | 0   | 0   | 0%  | 0%  | 0%  | 0%  | 100% | 0%  | 0%  | 0%  |
| L BON 03    | 2   | 2   | 0   | 0   | 0%  | 0%  | 0%  | 0%  | 50%  | 0%  | 50% | 0%  |
| Totals/Avg: | 10  | 8   | 1   | 0   | 22% | 0%  | 0%  | 0%  | 50%  | 11% | 17% | 0%  |

**Comprehensive Plan Designations**

Unclassified  
Unclassified  
Unclassified

**Public Access Points**

DEVELOPED: 1  
UNDEVELOPED:  
INFORMAL:  
UNKNOWN:

**Zoning**

MINREQ

**Structures**

|              |          |
|--------------|----------|
| L BON 01     | 0        |
| L BON 02     | 0        |
| L BON 03     | 0        |
| <b>Total</b> | <b>0</b> |

**Current Shoreline Designations**

|          |      |
|----------|------|
| L BON 01 | CONS |
| L BON 02 | CONS |
| L BON 03 | CONS |

**Overwater Structures**

|          |      |
|----------|------|
| L BON 01 | none |
| L BON 02 | 1    |
| L BON 03 | none |

**Quad Score**

|                  | Score 1     | Score 2     | Quad Score |
|------------------|-------------|-------------|------------|
| L BON 01         | 0.77        | 0.58        | 3          |
| L BON 02         | 0.86        | 0.53        | 2          |
| L BON 03         | 0.82        | 0.75        | 3          |
| <b>Averages:</b> | <b>0.82</b> | <b>0.62</b> | <b>3</b>   |

**Setbacks**

|                  | Avg | Max | Min | Std Dev |
|------------------|-----|-----|-----|---------|
| L BON 01         |     |     |     |         |
| L BON 02         |     |     |     |         |
| L BON 03         |     |     |     |         |
| <b>Averages:</b> |     |     |     |         |

**Subdivision Density**

|                 |             |
|-----------------|-------------|
| 9 L BON 01      | 0.34        |
| 0 L BON 02      | 0.00        |
| L BON 03        | 0.10        |
| <b>Average:</b> | <b>0.15</b> |

**Narrative**

Bonaparte Lake is located in Section 17 T38N R30E at an altitude of 3550 ft. It measures 151.7 acres. The lake is connected to a chain of small ponds and wetlands that serve as the headwaters of Bonaparte Creek. The shoreline is forested and owned mostly by Okanogan National Forest with exception of the SE corner that is owned by the state. A campground and boat launch in the southern tip is managed by ONF. There is also a small resort with lake access and one dock is located at a boy scout camp along the northern shoreline.

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**Recommendations**

### Shoreline Character Zones – Summary Pages

|                  |                       |                       |
|------------------|-----------------------|-----------------------|
| <b>WATERSHED</b> | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b> |
| OKANOGAN RIVER   | BOOHER LAKE           | L BOO 00              |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |                             |                 |
|------------|-----------------------------|-----------------|
| Column Key | (a) Number of Parcels       | (g) Industrial  |
|            | (b) Parcels Analyzed        | (h) Mining      |
|            | (c) Unknown Use             | (i) Public Use  |
|            | (d) Number of Water Parcels | (j) Residential |
|            | (e) Agriculture             | (k) Resort/Camp |
|            | (f) Commercial              | (l) Undeveloped |

|             | (a) | (b) | (c) | (d) | (e)  | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| L BOO 00    | 3   | 3   | 0   | 0   | 100% | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  |
| Totals/Avg: | 3   | 3   | 0   | 0   | 100% | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  |

|  |                             |               |
|--|-----------------------------|---------------|
| <b>Comprehensive Plan Designations</b> | <b>Public Access Points</b> | <b>Zoning</b> |
| Unclassified                           |                             | MINREQ        |

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| <b>Structures</b>                    | <b>Current Shoreline Designations</b> |
| L BOO 00                      0      | L BOO 00              CONS            |
| Total                              0 |                                       |

|                             |                                  |
|-----------------------------|----------------------------------|
| <b>Overwater Structures</b> | <b>QuadScore</b>                 |
| L BOO 00              none  |                                  |
|                             | Score 1    Score 2    Quad Score |
|                             | L BOO 00    0.85    0.45    2    |
|                             | Averages:    0.85    0.45    2   |

|  |                              |
|--|------------------------------|
| <b>Setbacks</b>  | <b>Subdivision Density</b>   |
| Avg                      Max                      Min                      Std Dev | 2 L BOO 00              0.10 |
| L BOO 00   | Average:              0.10   |
| Averages:  |                              |

**Narrative**

Booher Lake is located at T35N R26E. The surface area of the lake is variable depending on hydrologic fluctuations, with a range of 18 – 29 acres. The lake is surrounded by private agricultural range lands with no structures in the shoreline to date. Pine Creek, and intermittent creek provides inflow to the lake; no outflow exists. No public access exists on the lake.

**Recommendations**

### Shoreline Character Zones – Summary Pages

|                  |                       |                                  |
|------------------|-----------------------|----------------------------------|
| <b>WATERSHED</b> | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b>            |
| COLUMBIA RIVER   | BREWSTER              | S COL 04<br>S COL 05<br>S OKA 01 |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |  |   |
|------------|--|---|
| Column Key | (a) Number of Parcels<br>(b) Parcels Analyzed<br>(c) Unknown Use<br>(d) Number of Water Parcels<br>(e) Agriculture<br>(f) Commercial | (g) Industrial<br>(h) Mining<br>(i) Public Use<br>(j) Residential<br>(k) Resort/Camp<br>(l) Undeveloped |
|------------|--|---|

|             | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| S COL 04    | 105 | 97  | 6   | 2   | 18% | 6%  | 2%  | 0%  | 26% | 32% | 0%  | 16% |
| S COL 05    | 185 | 169 | 15  | 1   | 14% | 2%  | 1%  | 0%  | 27% | 33% | 0%  | 23% |
| S OKA 01    | 15  | 12  | 2   | 1   | 42% | 0%  | 0%  | 0%  | 50% | 0%  | 0%  | 8%  |
| Totals/Avg: | 305 | 278 | 23  | 4   | 24% | 3%  | 1%  | 0%  | 34% | 22% | 0%  | 16% |

| Comprehensive Plan Designations | Public Access Points             | Zoning |
|---------------------------------|----------------------------------|--------|
| CBD                             | 3 DEVELOPED: 5<br>UNDEVELOPED: 7 | C-1    |
| IA                              |                                  | C-2    |
| IA                              |                                  | MINREQ |
| MIXED COM/LI                    | INFORMAL:                        | PU     |
| MIXED DENS RES                  | UNKNOWN:                         | R-1    |
| MIXED DENS RES                  |                                  | R-2    |
| PU                              |                                  | WATER  |
| PU                              |                                  |        |
| RUR RES                         |                                  |        |
| RUR RES                         |                                  |        |
| RUR RES                         |                                  |        |
| SFR                             |                                  |        |
| Unclassified                    |                                  |        |
| Unclassified                    |                                  |        |
| WATER                           |                                  |        |
| WATER                           |                                  |        |
| WATER                           |                                  |        |
| WELLS DAM RES                   |                                  |        |
| WELLS DAM RES                   |                                  |        |
| WELLS DAM RES                   |                                  |        |

| Structures |     | Current Shoreline Designations |
|------------|-----|--------------------------------|
| S COL 04   | 45  | S COL 04    RUR                |
| S COL 05   | 59  | SUB                            |
| S OKA 01   |     | Undesignated                   |
|            |     | WATER                          |
| Total      | 104 | S COL 05    CONS               |

CONS/URB  
 RUR  
 SUB  
 Undesignated  
 URB  
 WATER  
 S OKA 01  
 RUR  
 Undesignated  
 WATER

| Overwater Structures |                                 | QuadScore |         |         |            |
|----------------------|---------------------------------|-----------|---------|---------|------------|
|                      |                                 |           | Score 1 | Score 2 | Quad Score |
| S COL 04             | 1 dock                          | S COL 04  | 0.80    | 0.58    | 3          |
| S COL 05             | 1 pier, 1 float, 3 docks, 1 bri | S COL 05  | 0.80    | 0.54    | 1          |
| S OKA 01             | none                            | S OKA 01  | 0.92    | 0.36    | 2          |
|                      |                                 | Averages: | 0.84    | 0.49    | 2          |

| Setbacks  |        |        |       |         | Subdivision Density |      |
|-----------|--------|--------|-------|---------|---------------------|------|
|           | Avg    | Max    | Min   | Std Dev |                     |      |
| S COL 04  | 131.00 | 370.00 | 30.00 | 77.65   | S COL 04            | 1.02 |
| S COL 05  | 143.04 | 410.00 | 50.00 | 66.58   | S COL 05            | 1.72 |
| S OKA 01  |        |        |       |         | S OKA 01            | 0.71 |
|           |        |        |       |         | Average:            | 1.15 |
| Averages: | 137.02 | 390.00 | 40.00 | 72.11   |                     |      |

**Narrative**

Shorelines in the Brewster Character Zone include the banks of the Columbia River along the Wells Pools running from RM 527-536 as well as upstream along the Okanogan River where it meets the Columbia. These shorelines are within or adjoining the Urban Growth Boundary of the city of Brewster and are characterized by tree fruit agriculture, residential and commercial uses. The majority of the waterfront shoreline area is owned by the Douglas County PUD. Access can be found at the city park, including two docks and a launch, and along the river walk in downtown Brewster. The shoreline along this portion has been greatly modified as part of the development of the Wells Dam impoundment. The entire shoreline has been stabilized with rip rap and supports a narrow band of riparian species in some areas. Fluctuations of the pool create variable habitat zones along the water's edge, and some side bar islands and wetlands do exist; however, the shoreline has been greatly simplified and is more reflective of lakeside environments than river systems.

The southern portion of this Character Zone encompasses the shoreline area parallel to US 97 and the BNSF rail road along the Columbia River between Brewster and Indian Dan Canyon, RM 529- 527. It is almost entirely owned by the Douglas County PUD. Those portions not owned by the PUD are composed of residential subdivisions near Brewster and some orchards and industrial uses related to agriculture and transportation. The shoreline through this section has been highly altered from hydroelectric development and includes heavy armoring to support and protect this vital transportation corridor for the railroad and highway. There is one developed access point operated by the PUD near RM 529.

**Recommendations**

### Shoreline Character Zones – Summary Pages

| WATERSHED            | CHARACTER ZONE | ANALYSIS UNITS                   |
|----------------------|----------------|----------------------------------|
| LOWER OKANOGAN RIVER | BREWSTER       | S COL 04<br>S COL 05<br>S OKA 01 |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |                             |                 |
|------------|-----------------------------|-----------------|
| Column Key | (a) Number of Parcels       | (g) Industrial  |
|            | (b) Parcels Analyzed        | (h) Mining      |
|            | (c) Unknown Use             | (i) Public Use  |
|            | (d) Number of Water Parcels | (j) Residential |
|            | (e) Agriculture             | (k) Resort/Camp |
|            | (f) Commercial              | (l) Undeveloped |

|             | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| S COL 04    | 105 | 97  | 6   | 2   | 18% | 6%  | 2%  | 0%  | 26% | 32% | 0%  | 16% |
| S COL 05    | 185 | 169 | 15  | 1   | 14% | 2%  | 1%  | 0%  | 27% | 33% | 0%  | 23% |
| S OKA 01    | 15  | 12  | 2   | 1   | 42% | 0%  | 0%  | 0%  | 50% | 0%  | 0%  | 8%  |
| Totals/Avg: | 305 | 278 | 23  | 4   | 24% | 3%  | 1%  | 0%  | 34% | 22% | 0%  | 16% |

| Comprehensive Plan Designations | Public Access Points | Zoning |
|---------------------------------|----------------------|--------|
| CBD                             | 3 DEVELOPED: 5       | C-1    |
| IA                              | UNDEVELOPED: 7       | C-2    |
| IA                              | INFORMAL:            | MINREQ |
| MIXED COM/LI                    | UNKNOWN:             | PU     |
| MIXED DENS RES                  |                      | R-1    |
| MIXED DENS RES                  |                      | R-2    |
| PU                              |                      | WATER  |
| PU                              |                      |        |
| RUR RES                         |                      |        |
| RUR RES                         |                      |        |
| RUR RES                         |                      |        |
| SFR                             |                      |        |
| Unclassified                    |                      |        |
| Unclassified                    |                      |        |
| WATER                           |                      |        |
| WATER                           |                      |        |
| WATER                           |                      |        |
| WELLS DAM RES                   |                      |        |
| WELLS DAM RES                   |                      |        |
| WELLS DAM RES                   |                      |        |

| Structures  | Current Shoreline Designations |
|-------------|--------------------------------|
| S COL 04 45 | S COL 04 RUR                   |
| S COL 05 59 | SUB                            |
| S OKA 01    | Undesignated                   |
|             | WATER                          |
| Total 104   | S COL 05 CONS                  |
|             | CONS/URB                       |

RUR  
 SUB  
 Undesignated  
 URB  
 WATER  
 S OKA 01  
 RUR  
 Undesignated  
 WATER

| Overwater Structures |                                 | QuadScore |         |         |            |
|----------------------|---------------------------------|-----------|---------|---------|------------|
|                      |                                 |           | Score 1 | Score 2 | Quad Score |
| S COL 04             | 1 dock                          |           |         |         |            |
| S COL 05             | 1 pier, 1 float, 3 docks, 1 bri | S COL 04  | 0.80    | 0.58    | 3          |
| S OKA 01             | none                            | S COL 05  | 0.80    | 0.54    | 1          |
|                      |                                 | S OKA 01  | 0.92    | 0.36    | 2          |
|                      |                                 | Averages: | 0.84    | 0.49    | 2          |

| Setbacks  |        |        |       |         | Subdivision Density |      |
|-----------|--------|--------|-------|---------|---------------------|------|
|           | Avg    | Max    | Min   | Std Dev |                     |      |
| S COL 04  | 131.00 | 370.00 | 30.00 | 77.65   | S COL 04            | 1.02 |
| S COL 05  | 143.04 | 410.00 | 50.00 | 66.58   | S COL 05            | 1.72 |
| S OKA 01  |        |        |       |         | S OKA 01            | 0.71 |
|           |        |        |       |         | Average:            | 1.15 |
| Averages: | 137.02 | 390.00 | 40.00 | 72.11   |                     |      |

**Narrative**

Shorelines in the Brewster Character Zone include the banks of the Columbia River along the Wells Pools running from RM 527-536 as well as upstream along the Okanogan River where it meets the Columbia. These shorelines are within or adjoining the Urban Growth Boundary of the city of Brewster and are characterized by tree fruit agriculture, residential and commercial uses. The majority of the waterfront shoreline area is owned by the Douglas County PUD. Access can be found at the city park, including two docks and a launch, and along the river walk in downtown Brewster. The shoreline along this portion has been greatly modified as part of the development of the Wells Dam impoundment. The entire shoreline has been stabilized with rip rap and supports a narrow band of riparian species in some areas. Fluctuations of the pool create variable habitat zones along the water's edge, and some side bar islands and wetlands do exist; however, the shoreline has been greatly simplified and is more reflective of lakeside environments than river systems.

The southern portion of this Character Zone encompasses the shoreline area parallel to US 97 and the BNSF rail road along the Columbia River between Brewster and Indian Dan Canyon, RM 529- 527. It is almost entirely owned by the Douglas County PUD. Those portions not owned by the PUD are composed of residential subdivisions near Brewster and some orchards and industrial uses related to agriculture and transportation. The shoreline through this section has been highly altered from hydroelectric development and includes heavy armoring to support and protect this vital transportation corridor for the railroad and highway. There is one developed access point operated by the PUD near RM 529.

**Recommendations**



### Shoreline Character Zones – Summary Pages

| WATERSHED     | CHARACTER ZONE  | ANALYSIS UNITS |
|---------------|-----------------|----------------|
| MIDDLE METHOW | CARLTON - TWISP | S MET 14       |
|               |                 | S MET 15       |
|               |                 | S MET 16       |
|               |                 | S MET 17       |
|               |                 | S MET 18       |
|               |                 | S MET 19       |
|               |                 | S MET 20       |
|               |                 | S MET 21       |
|               |                 | S MET 22       |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |                             |                 |
|------------|-----------------------------|-----------------|
| Column Key | (a) Number of Parcels       | (g) Industrial  |
|            | (b) Parcels Analyzed        | (h) Mining      |
|            | (c) Unknown Use             | (i) Public Use  |
|            | (d) Number of Water Parcels | (j) Residential |
|            | (e) Agriculture             | (k) Resort/Camp |
|            | (f) Commercial              | (l) Undeveloped |

|             | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| S MET 14    | 29  | 26  | 2   | 1   | 15% | 0%  | 0%  | 0%  | 0%  | 42% | 0%  | 42% |
| S MET 15    | 50  | 47  | 2   | 1   | 4%  | 0%  | 4%  | 0%  | 2%  | 55% | 0%  | 34% |
| S MET 16    | 29  | 26  | 2   | 1   | 31% | 0%  | 0%  | 0%  | 0%  | 65% | 0%  | 4%  |
| S MET 17    | 30  | 28  | 1   | 1   | 50% | 0%  | 0%  | 0%  | 0%  | 39% | 0%  | 11% |
| S MET 18    | 29  | 26  | 1   | 2   | 38% | 0%  | 0%  | 0%  | 8%  | 35% | 0%  | 19% |
| S MET 19    | 56  | 48  | 3   | 5   | 15% | 2%  | 0%  | 0%  | 31% | 33% | 0%  | 19% |
| S MET 20    | 44  | 37  | 3   | 4   | 43% | 0%  | 0%  | 0%  | 0%  | 30% | 0%  | 27% |
| S MET 21    | 24  | 21  | 1   | 2   | 10% | 5%  | 10% | 0%  | 0%  | 38% | 0%  | 38% |
| S MET 22    | 26  | 23  | 1   | 2   | 30% | 4%  | 0%  | 0%  | 4%  | 35% | 0%  | 26% |
| Totals/Avg: | 317 | 282 | 16  | 19  | 26% | 1%  | 2%  | 0%  | 5%  | 41% | 0%  | 24% |

**Comprehensive Plan Designations**

Sub-Unit C  
 Sub-Unit C  
 Sub-Unit D  
 Sub-Unit D  
 Sub-Unit D  
 Sub-Unit D  
 Sub-Unit D  
 Sub-Unit D  
 Sub-Unit D  
 Sub-Unit D  
 WATER  
 WATER  
 WATER

**Public Access Points**

5 DEVELOPED:  
 UNDEVELOPED: 15  
 INFORMAL:  
 UNKNOWN: 1

**Zoning**

Carlton AG  
 MRD1  
 Valley Floor  
 WATER

WATER  
 WATER  
 WATER  
 WATER  
 WATER  
 WATER

| <b>Structures</b> |            | <b>Current Shoreline Designations</b> |       |
|-------------------|------------|---------------------------------------|-------|
| S MET 14          | 22         | S MET 14                              | RUR   |
| S MET 15          | 32         |                                       | WATER |
| S MET 16          | 33         | S MET 15                              | RUR   |
| S MET 17          | 45         |                                       | WATER |
| S MET 18          | 24         | S MET 16                              | RUR   |
| S MET 19          | 34         |                                       | WATER |
| S MET 20          | 39         | S MET 17                              | RUR   |
| S MET 21          | 25         |                                       | WATER |
| S MET 22          | 18         | S MET 18                              | RUR   |
|                   |            |                                       | WATER |
| <b>Total</b>      | <b>272</b> | S MET 19                              | RUR   |
|                   |            |                                       | WATER |
|                   |            | S MET 20                              | RUR   |
|                   |            |                                       | WATER |
|                   |            | S MET 21                              | RUR   |
|                   |            |                                       | WATER |
|                   |            | S MET 22                              | RUR   |
|                   |            |                                       | WATER |

| <b>Overwater Structures</b> |      | <b>QuadScore</b> |             |             |            |
|-----------------------------|------|------------------|-------------|-------------|------------|
|                             |      |                  | Score 1     | Score 2     | Quad Score |
| S MET 14                    | none | S MET 14         | 0.85        | 0.72        | 4          |
| S MET 15                    | none | S MET 15         | 0.75        | 0.73        | 3          |
| S MET 16                    | none | S MET 16         | 0.74        | 0.74        | 3          |
| S MET 17                    | none | S MET 17         | 0.81        | 0.72        | 3          |
| S MET 18                    | none | S MET 18         | 0.88        | 0.73        | 4          |
| S MET 19                    | none | S MET 19         | 0.89        | 0.77        | 4          |
| S MET 20                    | none | S MET 20         | 0.88        | 0.76        | 4          |
| S MET 21                    | none | S MET 21         | 0.88        | 0.74        | 4          |
| S MET 22                    | none | S MET 22         | 0.84        | 0.75        | 4          |
|                             |      | <b>Averages:</b> | <b>0.84</b> | <b>0.74</b> | <b>4</b>   |

| <b>Setbacks</b> |        |         |        |         | <b>Subdivision Density</b> |      |
|-----------------|--------|---------|--------|---------|----------------------------|------|
|                 | Avg    | Max     | Min    | Std Dev |                            |      |
| S MET 14        | 304.00 | 980.00  | 2.00   | 257.89  | S MET 14                   | 0.42 |
| S MET 15        | 212.73 | 410.00  | 50.00  | 98.28   | S MET 15                   | 0.63 |
| S MET 16        | 257.89 | 460.00  | 30.00  | 140.74  | S MET 16                   | 0.58 |
| S MET 17        | 265.79 | 730.00  | 70.00  | 184.76  | S MET 17                   | 0.46 |
| S MET 18        | 860.77 | 3140.00 | 100.00 | 1033.09 | S MET 18                   | 0.17 |
| S MET 19        | 463.50 | 2110.00 | 80.00  | 482.80  | S MET 19                   | 0.16 |
| S MET 20        | 471.18 | 1470.00 | 90.00  | 452.86  | S MET 20                   | 0.11 |
| S MET 21        | 405.00 | 1140.00 | 100.00 | 279.83  | S MET 21                   | 0.16 |
| S MET 22        | 397.50 | 1110.00 | 50.00  | 304.13  | S MET 22                   | 0.17 |

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|           |        |         |       |        |          |      |
|-----------|--------|---------|-------|--------|----------|------|
| Averages: | 404.26 | 1283.33 | 63.56 | 359.38 | Average: | 0.32 |
|-----------|--------|---------|-------|--------|----------|------|

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**Narrative**

The Carlton-Twisp Character Zone of the Methow River extends south from the southern UGA of Twisp near the Hwy 20 Junction to Carlton -- RM 37.5 – 27.6. The upper portion of this zone meanders through a wide, active channel, creating large gravel bars and mid-channel islands. As the river approaches Carlton the stream channel narrows and is surrounded by steep erosive bluffs. Riparian vegetation can be found along stable banks and wide bars. Bank stabilization has occurred throughout this zone for road and land protection. There is no developed public access within this zone. An informal public access exists between RM 33-34 on WDFW property. The surrounding land uses include rural residential and agriculture.

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**Recommendations**

### Shoreline Character Zones – Summary Pages

|                  |                       |                       |
|------------------|-----------------------|-----------------------|
| <b>WATERSHED</b> | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b> |
| LOWER METHOW     | CARLTON LAMIRD        | S MET 13              |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |  |   |
|------------|--|---|
| Column Key | (a) Number of Parcels<br>(b) Parcels Analyzed<br>(c) Unknown Use<br>(d) Number of Water Parcels<br>(e) Agriculture<br>(f) Commercial | (g) Industrial<br>(h) Mining<br>(i) Public Use<br>(j) Residential<br>(k) Resort/Camp<br>(l) Undeveloped |
|------------|--|---|

|             | (a) | (b) | (c) | (d) | (e) | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| S MET 13    | 60  | 52  | 6   | 2   | 23% | 8%  | 13% | 0%  | 2%  | 29% | 0%  | 25% |
| Totals/Avg: | 60  | 52  | 6   | 2   | 23% | 8%  | 13% | 0%  | 2%  | 29% | 0%  | 25% |

| Comprehensive Plan Designations | Public Access Points   | Zoning   |
|---------------------------------|--|--|
| Sub-Unit D<br>WATER             | 6<br>DEVELOPED: 1<br>UNDEVELOPED: 1<br>INFORMAL:<br>UNKNOWN: | Carlton Commercial<br>Uplands<br>Valley Floor<br>WATER |

| Structures                            | Current Shoreline Designations    |
|---------------------------------------|-----------------------------------|
| S MET 13                      45      | S MET 13                      RUR |
| Total                              45 | WATER                             |

| Overwater Structures    | Quad Score                       |
|-------------------------|----------------------------------|
| S MET 13              1 | Score 1    Score 2    Quad Score |
|                         | S MET 13    0.86    0.67    4    |
|                         | Averages:    0.86    0.67    4   |

| Setbacks  | Subdivision Density                  |
|---|--------------------------------------|
| Avg                      Max                      Min                      Std Dev        | 8 S MET 13                      0.42 |
| S MET 13              365.50              2170.00              70.00              445.04  | Average:                      0.42   |
| Averages:              365.50              2170.00              70.00              445.04 |                                      |

**Narrative**

The Carlton LAMIRD character zone includes a 1 mile reach of river that encompasses the population center of Carlton centered around RM 27. Carlton houses a post office, RV park, motel, restaurant, general store and fire station, and shoreline uses include public access and dispersed rural residential development. A WDFW fishing access site serves this area adequately for access. It is a popular launch site for commercial and private float trips with a great swimming beach that brings in visitors to Carlton.

**Recommendations**



| Structures |     | Current Shoreline Designations |                    |
|------------|-----|--------------------------------|--------------------|
| S CHE 02   | 61  | S CHE 02                       | RUR WATER          |
| S CHE 03   | 27  | S CHE 03                       | RUR WATER          |
| S CHE 04   | 25  | S CHE 04                       | RUR WATER          |
| S CHE 05   |     | S CHE 05                       | RUR                |
| S CHE 06   | 10  | S CHE 06                       | Undesignated WATER |
| S CHE 07   | 13  | S CHE 07                       | Undesignated WATER |
| S CHE 08   |     | S CHE 08                       | Undesignated WATER |
| Total      | 136 |                                |                    |

| Overwater Structures |      | QuadScore |         |         |            |
|----------------------|------|-----------|---------|---------|------------|
|                      |      |           | Score 1 | Score 2 | Quad Score |
| S CHE 02             | none | S CHE 02  | 0.91    | 0.82    | 4          |
| S CHE 03             | none | S CHE 03  | 0.95    | 0.77    | 4          |
| S CHE 04             | 1    | S CHE 04  | 0.77    | 0.75    | 3          |
| S CHE 05             | none | S CHE 05  | 0.82    | 0.78    | 3          |
| S CHE 06             | none | S CHE 06  | 0.73    | 0.86    | 3          |
| S CHE 07             | none | S CHE 07  | 0.89    | 0.77    | 4          |
| S CHE 08             | none | S CHE 08  | 0.96    | 0.83    | 4          |
|                      |      | Averages: | 0.86    | 0.80    | 4          |

| Setbacks  |        |         |       |         | Subdivision Density |      |
|-----------|--------|---------|-------|---------|---------------------|------|
|           | Avg    | Max     | Min   | Std Dev |                     |      |
| S CHE 02  | 281.58 | 1170.00 | 50.00 | 283.19  | S CHE 02            | 0.28 |
| S CHE 03  | 288.00 | 540.00  | 20.00 | 156.40  | S CHE 03            | 0.26 |
| S CHE 04  | 211.82 | 980.00  | 20.00 | 206.46  | S CHE 04            | 0.36 |
| S CHE 05  |        |         |       |         | S CHE 05            | 0.29 |
| S CHE 06  | 122.50 | 280.00  | 40.00 | 81.02   | S CHE 06            | 0.27 |
| S CHE 07  | 104.12 | 300.00  | 20.00 | 82.24   | S CHE 07            | 1.42 |
| S CHE 08  |        |         |       |         | S CHE 08            | 0.05 |
|           |        |         |       |         | Average:            | 0.42 |
| Averages: | 201.60 | 654.00  | 30.00 | 161.86  |                     |      |

### Narrative

The Chewack (Chewuch) River flows southwest from high elevations in the Pasayten Wilderness on USFS land through sparsely populated residential and agricultural lands until it meets the Methow River in the town of Winthrop. The Lower Chewack Watershed (HUC 10), which encompasses all shorelines designated in this SMP, drains nearly 200,000 acres of mountainous terrain through a surrounding landscape of forested slopes with patches of meadows in the highlands and shrub-steppe terraced hillsides in the lower reaches. Riparian cover is relatively continuous throughout the reach. There are 5 diversions for irrigation and extensive portions of the river's banks, including the alluvial fans of receiving streams have been rip rapped for flood control. Public access along the Chewack is plentiful above RM 35 where various developed campgrounds and day use sites are managed by the USFS and WDFW. Informal and undeveloped access sites also exist. A new park, "Sa Teekh Wa", in the Town of Winthrop also provides shoreline access via a pedestrian bridge and riverfront trail. Limited access exists in the more heavily developed areas between RM 28 and 35, with the exception of one WDFW non-motorized (walk-in) location and a scattering of privately owned community open spaces. The Okanogan County

Outdoor Recreation Plan identifies “river trails” as a high priority and this lower portion of the Chewack River has no trail system.

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**Recommendations**

### Shoreline Character Zones – Summary Pages

|                  |                       |                       |
|------------------|-----------------------|-----------------------|
| <b>WATERSHED</b> | <b>CHARACTER ZONE</b> | <b>ANALYSIS UNITS</b> |
| SANPOIL RIVER    | CHOPAKA LAKE          | L CHO 00              |

**Landuse Percentage (by Parcel) within Shorelines of Okanogan Count**

|            |                             |                 |
|------------|-----------------------------|-----------------|
| Column Key | (a) Number of Parcels       | (g) Industrial  |
|            | (b) Parcels Analyzed        | (h) Mining      |
|            | (c) Unknown Use             | (i) Public Use  |
|            | (d) Number of Water Parcels | (j) Residential |
|            | (e) Agriculture             | (k) Resort/Camp |
|            | (f) Commercial              | (l) Undeveloped |

|             | (a) | (b) | (c) | (d) | (e)  | (f) | (g) | (h) | (i) | (j) | (k) | (l) |
|-------------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| L CHO 00    | 10  | 4   | 4   | 2   | 100% | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  |
| Totals/Avg: | 10  | 4   | 4   | 2   | 100% | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  | 0%  |

|  |                            |                 |
|--|----------------------------|-----------------|
| <b>Comprehensive Plan Designations</b> | <b>PublicAccess Points</b> | <b>Zoning</b>   |
| Unclassified<br>WATER                  |                            | MINREQ<br>WATER |

|  |                                       |
|--|---------------------------------------|
| <b>Structures</b>                          | <b>Current Shoreline Designations</b> |
| L CHO 00                      5            | L CHO 00                      CONS    |
| <hr/> Total                              5 | WATER                                 |

|                             |                                  |
|-----------------------------|----------------------------------|
| <b>Overwater Structures</b> | <b>QuadScore</b>                 |
| L CHO 00            none    |                                  |
|                             | Score 1    Score 2    Quad Score |
|                             | L CHO 00    0.83    0.53    2    |
|                             | Averages:    0.83    0.53    2   |

|  |                                      |
|--|--------------------------------------|
| <b>Setbacks</b>  | <b>Subdivision Density</b>           |
| Avg                      Max                      Min                      Std Dev |                                      |
| L CHO 00            50.00            50.00            50.00            0.00        | 4 L CHO 00                      0.06 |
| Averages:            50.00            50.00            50.00            0.00       | Average:                      0.06   |

**Narrative**

Chopaka Lake is located in Section 4 T39N R25E. The lake measures 68 acres. It sits in a narrow trough with a north-south orientation and surrounded by steep forested slopes. The lake flows out into Chopaka Creek, a tributary of Sinlahekin River. The southwestern 1/3 is privately owned, but the remainder of the shoreline is publicly owned with one WDFW access and a BLM campground and access along the western shoreline.

**Recommendations**



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Averages:    0.78    0.45    1

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| <b>Setbacks</b> |       |        |       |         | <b>Subdivision Density</b> |      |
|-----------------|-------|--------|-------|---------|----------------------------|------|
|                 | Avg   | Max    | Min   | Std Dev |                            |      |
| L CON 01        | 50.00 | 120.00 | 10.00 | 49.67   | L CON 01                   | 0.31 |
| L CON 02        | 80.00 | 120.00 | 40.00 | 56.57   | L CON 02                   | 0.22 |
| Averages:       | 65.00 | 120.00 | 25.00 | 53.12   | L CON 03                   | 0.00 |
|                 |       |        |       |         | L CON 04                   | 0.00 |
|                 |       |        |       |         | Average:                   | 0.13 |

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**Narrative**

Conconully Reservoir is located in Section 18 T35N R25E. The reservoir is an artificial lake impounded by a USBOR dam built just below the confluence of the West and North Forks of Salmon Creek in 1910. Used for irrigation storage, the lake now supports broad recreational and residential uses. Surrounding land uses include open range, agriculture, urbanization and forest lands. Most of the land around the lake is owned by the federal Bureau of Reclamation with much of the north and western shorelines leased to the owners of private cabins and several small resorts. Public access is found along the NE corner at Conconully State Park, as well as at the southern shoreline at the dam.

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**Recommendations**









## Recommendations











is no public access along the creek other than an undeveloped USFS site located just east of the Middle Fork Gold Creek Road.

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## **Recommendations**







|          |      |  |           |         |         |            |
|----------|------|--|-----------|---------|---------|------------|
| S OKA 27 | 1    |  |           | Score 1 | Score 2 | Quad Score |
| S OKA 28 | none |  | S OKA 27  | 0.81    | 0.65    | 3          |
| S OKA 29 | none |  | S OKA 28  | 0.84    | 0.64    | 4          |
| S OKA 30 | none |  | S OKA 29  | 0.83    | 0.65    | 4          |
|          |      |  | S OKA 30  | 0.67    | 0.60    | 3          |
|          |      |  | Averages: | 0.79    | 0.64    | 4          |

| <b>Setbacks</b> |        |         |       |         | <b>Subdivision Density</b> |      |
|-----------------|--------|---------|-------|---------|----------------------------|------|
|                 | Avg    | Max     | Min   | Std Dev |                            |      |
| S OKA 27        | 323.75 | 860.00  | 70.00 | 268.64  | S OKA 27                   | 0.20 |
| S OKA 28        | 581.43 | 1760.00 | 70.00 | 664.69  | S OKA 28                   | 0.21 |
| S OKA 29        | 339.20 | 1330.00 | 30.00 | 329.73  | S OKA 29                   | 0.34 |
| S OKA 30        | 320.82 | 860.00  | 60.00 | 211.59  | S OKA 30                   | 0.49 |
| Averages:       | 391.30 | 1202.50 | 57.50 | 368.66  | Average:                   | 0.31 |

**Narrative**

The Keystone-Tonasket Character Zone extends south along the Okanogan River from the southern boundary of Tonasket at RM 56.1 – 52.3. This area occupies a broad floodplain with rural residential and agricultural uses. Residential and agricultural uses have minimized the extent of riparian vegetation as well as the complexity of the channel. The channel is primarily a single course though some mid-channel islands do exist, suggesting a degree of dynamism through this zone. There are no developed public access points throughout this section.

**Recommendations**



|          |      |           |      |      |   |
|----------|------|-----------|------|------|---|
| S OKA 25 | none | S OKA 25  | 0.88 | 0.69 | 4 |
| S OKA 26 | none | S OKA 26  | 0.83 | 0.61 | 4 |
|          |      | Averages: | 0.82 | 0.64 | 4 |

| <b>Setbacks</b> |        |         |       |         | <b>Subdivision Density</b> |      |
|-----------------|--------|---------|-------|---------|----------------------------|------|
|                 | Avg    | Max     | Min   | Std Dev |                            |      |
| S OKA 23        | 335.00 | 840.00  | 50.00 | 266.71  | S OKA 23                   | 0.12 |
| S OKA 24        | 300.00 | 870.00  | 50.00 | 352.34  | S OKA 24                   | 0.08 |
| S OKA 25        | 355.00 | 970.00  | 50.00 | 385.16  | S OKA 25                   | 0.10 |
| S OKA 26        | 414.17 | 1370.00 | 30.00 | 504.97  | S OKA 26                   | 0.25 |
| Averages:       | 351.04 | 1012.50 | 45.00 | 377.30  | Average:                   | 0.14 |

#### **Narrative**

The Keystone Canyon Character Zone extends from the Janis Bridge at RM 52.3 to RM 41.7 just north of Riverside. The river is confined to a narrow, steep canyon through much of this zone, limiting the extent of a natural floodplain. Where a floodplain does exist, agricultural fields occupy the landscape, confining the river to a single channel. Much of this reach lacks robust riparian vegetation or channel complexity due to natural topography and agricultural conversion. Public access does not exist outside of informal right of ways or bridge crossings.

#### **Recommendations**



WATER

| Overwater Structures |                 | QuadScore |         |         |            |
|----------------------|-----------------|-----------|---------|---------|------------|
|                      |                 |           | Score 1 | Score 2 | Quad Score |
| S COL 03             | 5 docks, 1 pier |           |         |         |            |
| S MET 01             | 1 dock, Bridge  | S COL 03  | 0.78    | 0.61    | 3          |
| S MET 02             | 1 float, 1 dock | S MET 01  | 0.83    | 0.40    | 2          |
|                      |                 | S MET 02  | 0.81    | 0.52    | 1          |
|                      |                 | Averages: | 0.81    | 0.51    | 2          |

| Setbacks  |        |        |       |         | Subdivision Density |      |
|-----------|--------|--------|-------|---------|---------------------|------|
|           | Avg    | Max    | Min   | Std Dev |                     |      |
| S COL 03  | 182.92 | 520.00 | 50.00 | 106.10  | S COL 03            | 0.66 |
| S MET 01  | 72.63  | 120.00 | 1.00  | 21.28   | S MET 01            | 2.01 |
| S MET 02  | 107.93 | 300.00 | 20.00 | 69.46   | S MET 02            | 0.91 |
| Averages: | 121.16 | 313.33 | 23.67 | 65.61   | Average:            | 1.19 |

**Narrative**

Shorelines in the Lake Pateros Character Zone include the banks of the Columbia River along the Wells Pool running downstream from RM 523 to the confluence with the Methow River and extending up the Methow to RM 1.7. It is characterized by the inundation zone of the Wells Pool along the Columbia and the Methow within the urban growth boundary of Pateros. This area has been heavily altered by inundation and filling. The entire shoreline is composed of up to nine feet of fill and is therefore supported by continuous rip rap along the shoreline. The majority of the waterfront shoreline is owned by the Douglas County PUD. Native riparian vegetation can be found in portions of the Methow River where mid-channel islands, bars, and wetlands have been established for wildlife. The majority of the zone, however, is dominated by residential lawns or parkland landscaping along the PUD lands. Residential and commercial development line the north bank of Lake Pateros and the Methow River while public access is provided in the at numerous PUD locations and city parks. WDFW operates 2 access sites in this reach, including a boat launch and fishing site. It is a popular site for all types of watercraft including rafts, kayaks, motorized boats and jet skis. The WDFW site on the south bank of the Methow across from Pateros is the primary take-out site for commercial float trips on the lower Methow River.

**Recommendations**









|          |      |           |      |      |   |
|----------|------|-----------|------|------|---|
| S LOS 02 | none | S LOS 02  | 0.93 | 0.50 | 2 |
| S LOS 03 | none | S LOS 03  | 0.95 | 0.42 | 2 |
| S LOS 04 | none | S LOS 04  | 0.96 | 0.39 | 2 |
| S LOS 06 | none | S LOS 06  | 0.84 | 0.31 | 2 |
| S LOS 07 | none | S LOS 07  | 0.92 | 0.40 | 2 |
|          |      | Averages: | 0.92 | 0.39 | 2 |

| <b>Setbacks</b> |        |        |        |         | <b>Subdivision Density</b> |      |
|-----------------|--------|--------|--------|---------|----------------------------|------|
|                 | Avg    | Max    | Min    | Std Dev |                            |      |
| S LOS 01        |        |        |        |         | S LOS 01                   | 0.06 |
| S LOS 02        |        |        |        |         | S LOS 02                   | 0.08 |
| S LOS 03        |        |        |        |         | S LOS 03                   | 0.11 |
| S LOS 04        |        |        |        |         | S LOS 04                   | 0.06 |
| S LOS 06        | 600.00 | 600.00 | 600.00 | 0.00    | S LOS 06                   | 0.12 |
| S LOS 07        | 600.00 | 600.00 | 600.00 | 0.00    | S LOS 07                   | 0.09 |
| Averages:       | 600.00 | 600.00 | 600.00 | 0.00    | Average:                   | 0.09 |

**Narrative**

Lost Creek flows in a northeast direction from T34N, R30E to T35N, R31E approximately 7 miles. The creek lies in a V-shaped basin and drains a gently sloping, forested landscape almost entirely owned by the ONF before it enters into the West Fork of the Sanpoil River. Surrounding land uses are forestry and open rangelands. No developed public access exists.

**Recommendations**



|           |        |        |       |        |          |      |
|-----------|--------|--------|-------|--------|----------|------|
| S MET 05  | 247.19 | 710.00 | 30.00 | 163.18 | Average: | 0.35 |
| Averages: | 355.84 | 850.00 | 70.00 | 247.24 |          |      |

**Narrative**

The Lower Methow Character Zone extends from RM 12.8 beginning at the southern boundary of the population center known as Methow to the inundation zone of Lake Pateros at RM 1.7. This shoreline landscape is characterized by steep bluffs that form narrow reaches of canyon topped by wide benches that support rural residential development and orchards. Sandy point bar beaches are formed through wider reaches in this section and this zone is popular for white water rafting. It is served by informal access points at HWY 153 bridge crossings at RM 5 and 6 and an access using County road right of way at the Burma Road Bridge. USFS owns parcels along the shoreline between RM 9-10 which hold potential for access, however, only a single developed access point exists (A WDFW site at RM-\_\_\_) between Methow and the WDFW sites on Lake Pateros as the majority of this reach is privately owned.

**Recommendations**



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|           |        |        |       |        |
|-----------|--------|--------|-------|--------|
| Averages: | 355.84 | 850.00 | 70.00 | 247.24 |
|-----------|--------|--------|-------|--------|

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**Narrative**

The Lower Methow Character Zone extends from RM 12.8 beginning at the southern boundary of the population center known as Methow to the inundation zone of Lake Pateros at RM 1.7. This shoreline landscape is characterized by steep bluffs that form narrow reaches of canyon topped by wide benches that support rural residential development and orchards. Sandy point bar beaches are formed through wider reaches in this section and this zone is popular for white water rafting. It is served by informal access points at HWY 153 bridge crossings at RM 5 and 6 and an access using County road right of way at the Burma Road Bridge. USFS owns parcels along the shoreline between RM 9-10 which hold potential for access, however, only a single developed access point exists (A WDFW site at RM-\_\_\_) between Methow and the WDFW sites on Lake Pateros as the majority of this reach is privately owned.

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**Recommendations**



WATER  
WATER  
WELLS DAM RES  
WELLS DAM RES  
WELLS DAM RES  
WELLS DAM RES  
WELLS DAM RES  
WELLS DAM RES  
WELLS DAM RES  
WELLS DAM RES

| <b>Structures</b> |     | <b>Current Shoreline Designations</b> |              |
|-------------------|-----|---------------------------------------|--------------|
| S OKA 02          | 2   | S OKA 02                              | RUR          |
| S OKA 03          | 10  |                                       | Undesignated |
| S OKA 04          | 4   | S OKA 03                              | WATER        |
| S OKA 05          | 15  |                                       | RUR          |
| S OKA 06          | 11  |                                       | Undesignated |
| S OKA 07          | 16  | S OKA 04                              | WATER        |
| S OKA 08          | 7   |                                       | RUR          |
| S OKA 09          | 45  |                                       | Undesignated |
| Total             | 110 | S OKA 05                              | WATER        |
|                   |     |                                       | Undesignated |
|                   |     | S OKA 06                              | WATER        |
|                   |     |                                       | RUR          |
|                   |     |                                       | Undesignated |
|                   |     | S OKA 07                              | WATER        |
|                   |     |                                       | RUR          |
|                   |     |                                       | Undesignated |
|                   |     | S OKA 08                              | WATER        |
|                   |     |                                       | RUR          |
|                   |     |                                       | Undesignated |
|                   |     | S OKA 09                              | WATER        |
|                   |     |                                       | RUR          |
|                   |     |                                       | Undesignated |
|                   |     |                                       | WATER        |

| <b>Overwater Structures</b> |        | <b>QuadScore</b> |         |         |            |
|-----------------------------|--------|------------------|---------|---------|------------|
|                             |        |                  | Score 1 | Score 2 | Quad Score |
| S OKA 03                    | 1 dock | S OKA 02         | 0.81    | 0.43    | 1          |
| S OKA 05                    | 1 dock | S OKA 03         | 0.79    | 0.47    | 1          |
| S OKA 02                    | none   | S OKA 04         | 0.78    | 0.52    | 1          |
| S OKA 04                    | none   | S OKA 05         | 0.94    | 0.46    | 2          |
| S OKA 06                    | none   | S OKA 06         | 0.95    | 0.49    | 2          |
| S OKA 07                    | none   | S OKA 07         | 0.89    | 0.59    | 4          |
| S OKA 08                    | none   | S OKA 08         | 0.88    | 0.65    | 4          |
| S OKA 09                    | 1      | S OKA 09         | 0.83    | 0.60    | 4          |
|                             |        | Averages:        | 0.86    | 0.53    | 2          |

| <b>Setbacks</b> |        |        |        |         | <b>Subdivision Density</b> |      |
|-----------------|--------|--------|--------|---------|----------------------------|------|
|                 | Avg    | Max    | Min    | Std Dev |                            |      |
| S OKA 02        | 300.00 | 300.00 | 300.00 | 0.00    | S OKA 02                   | 0.44 |
|                 |        |        |        |         | S OKA 03                   | 0.38 |

|           |        |         |        |        |          |      |
|-----------|--------|---------|--------|--------|----------|------|
| S OKA 03  | 191.67 | 360.00  | 40.00  | 140.63 | S OKA 04 | 0.28 |
| S OKA 04  | 93.33  | 150.00  | 40.00  | 55.08  | S OKA 05 | 0.51 |
| S OKA 05  | 447.75 | 1110.00 | 1.00   | 410.87 | S OKA 06 | 0.41 |
| S OKA 06  | 291.43 | 530.00  | 90.00  | 180.87 | S OKA 07 | 0.28 |
| S OKA 07  | 322.22 | 920.00  | 140.00 | 256.11 | S OKA 08 | 0.39 |
| S OKA 08  | 153.33 | 240.00  | 80.00  | 80.83  | S OKA 09 | 0.62 |
| S OKA 09  | 324.81 | 1670.00 | 60.00  | 333.62 | Average: | 0.41 |
| Averages: | 265.57 | 660.00  | 93.88  | 182.25 |          |      |

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#### **Narrative**

The Lower Okanogan Character Zone extends from RM 16.7 of the mainstem of the Okanogan River downstream to the confluence with the Columbia River at the northern UGA boundary of Brewster. This reach of the river is impounded by Wells Dam on the Columbia River, creating a large, slow moving pool. The shoreline is dominated by agricultural uses, primarily orchards and hay fields. Riparian vegetation is stable due to the infrequent scour and flooding in this zone caused by the impoundment. The banks are silt and sand. The river divides Okanogan County shoreline jurisdiction from the Colville Confederate Tribe's jurisdiction on the eastern shoreline. Public access along the Lower Okanogan can be found at RM 0.5 at a WDFW fishing access and again at RM 4.5 at a PUD site. Between RM 4.5-16.7 no developed access exists. Informal access can be found along Monse River Road in the lower few miles, but otherwise this zone has limited access.

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#### **Recommendations**







## Recommendations



zone include agriculture and grazing and the shoreline is largely owned by the Douglas County PUD. One developed WDFW public access is located near RM 518.

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### **Recommendations**



The Malott LAMIRD Character Zone includes those shorelines within this unincorporated community along the main stem of the Okanogan River and its tributary, Loup Loup Creek. The Okanogan River shorelines in the LAMIRD contain residential and some limited commercial development. Loup Loup Creek contains native resident trout and steelhead but suffers from de-watering from irrigation diversions farther upstream. Eastern brook trout have likely out-competed native bull trout in the system. Anadromous fish cannot pass beyond RM 1 on Loup Loup Creek where a natural falls occurs. Shorelines in Malott support rural, low density residential and agricultural uses.

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## **Recommendations**



WATER  
 WATER  
 WATER  
 WATER  
 Wolf Creek  
 Wolf Creek  
 Wolf Creek  
 Wolf Creek

| Structures |     | Current Shoreline Designations |              |
|------------|-----|--------------------------------|--------------|
| S MET 31   | 25  | S MET 31                       | RUR          |
| S MET 32   | 11  |                                | WATER        |
| S MET 33   | 24  | S MET 32                       | RUR          |
| S MET 34   | 16  |                                | WATER        |
| S MET 35   | 14  | S MET 33                       | CONS         |
| S MET 36   | 14  |                                | RUR          |
| S MET 37   | 76  |                                | WATER        |
| S WOL 00   | 10  | S MET 34                       | RUR          |
|            |     |                                | Undesignated |
|            |     |                                | WATER        |
| Total      | 190 | S MET 35                       | RUR          |
|            |     | S MET 36                       | CONS         |
|            |     |                                | RUR          |
|            |     |                                | WATER        |
|            |     | S MET 37                       | CONS         |
|            |     |                                | RUR          |
|            |     |                                | WATER        |
|            |     | S WOL 00                       | RUR          |

| Overwater Structures |                  | QuadScore |         |         |            |
|----------------------|------------------|-----------|---------|---------|------------|
|                      |                  |           | Score 1 | Score 2 | Quad Score |
| S MET 33             | 1 dock           |           |         |         |            |
| S MET 34             | 1 dock, 1 Bridge | S MET 31  | 0.82    | 0.72    | 3          |
| S MET 31             | none             | S MET 32  | 0.82    | 0.68    | 3          |
| S MET 32             | none             | S MET 33  | 0.88    | 0.86    | 4          |
| S MET 35             | none             | S MET 34  | 0.87    | 0.76    | 4          |
| S MET 36             | none             | S MET 35  | 0.96    | 0.82    | 4          |
| S MET 37             | 1                | S MET 36  | 0.90    | 0.83    | 4          |
| S WOL 00             | 1                | S MET 37  | 0.83    | 0.79    | 4          |
|                      |                  | S WOL 00  | 0.79    | 0.73    | 3          |
|                      |                  | Averages: | 0.86    | 0.77    | 4          |

| Setbacks |        |         |       |         | Subdivision Density |      |
|----------|--------|---------|-------|---------|---------------------|------|
|          | Avg    | Max     | Min   | Std Dev |                     |      |
| S MET 31 | 213.33 | 970.00  | 20.00 | 250.21  | S MET 31            | 0.45 |
| S MET 32 | 462.22 | 990.00  | 70.00 | 422.99  | S MET 32            | 0.28 |
| S MET 33 | 443.64 | 1500.00 | 50.00 | 449.59  | S MET 33            | 0.08 |
| S MET 34 | 678.00 | 1500.00 | 70.00 | 534.25  | S MET 34            | 0.17 |
| S MET 35 | 236.75 | 1000.00 | 1.00  | 277.32  | S MET 35            | 0.31 |
| S MET 36 | 790.00 | 1840.00 | 50.00 | 573.80  | S MET 36            | 0.15 |
| S MET 37 | 375.28 | 1430.00 | 30.00 | 394.13  | S MET 37            | 0.34 |
| S WOL 00 | 251.25 | 970.00  | 80.00 | 294.59  | S WOL 00            | 0.39 |
|          |        |         |       |         | Average:            | 0.27 |

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|           |        |         |       |        |
|-----------|--------|---------|-------|--------|
| Averages: | 431.31 | 1275.00 | 46.38 | 399.61 |
|-----------|--------|---------|-------|--------|

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**Narrative**

The Mazama Character Zone begins at RM 67.5, where Early Winters Creek flows into the Methow River just upstream from the population center known as Mazama. This zone extends downstream through a wide glacially carved valley to RM 50.9 just west of the Town of Winthrop's Urban Growth Boundary. In addition to shorelines along the mainstem, this zone also includes shorelines associated with Wolf Creek extending approximately 2 miles upstream to the 20 cfs mark. Major tributaries include Goat Creek, Fawn Creek, and Wolf Creek. The Methow River is very dynamic through this zone, supporting a wide flood plain and channel migration zone with robust riparian forests, side channel habitats, and ox-bow wetlands. Despite the high level of ecologic integrity in this zone, shoreline modifications have been made for highway and property protection. Surrounding land uses are characterized by irrigated hay fields, rural residences, seasonal homes, and small-scale resorts and rentals. Access to the river includes Big Valley Ranch, a WDFW property; the Community trail in Mazama; and Early Winters Campground at the confluence of Early Winters Creek and the Methow River. There are also informal access points along road right of ways and at private common areas created via short and long plats.

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**Recommendations**



WATER  
WATER  
Wolf Creek  
Wolf Creek  
Wolf Creek  
Wolf Creek

| <b>Structures</b> |            | <b>Current Shoreline Designations</b> |                              |
|-------------------|------------|---------------------------------------|------------------------------|
| S MET 31          | 25         | S MET 31                              | RUR<br>WATER                 |
| S MET 32          | 11         | S MET 32                              | RUR<br>WATER                 |
| S MET 33          | 24         | S MET 33                              | CONS<br>RUR<br>WATER         |
| S MET 34          | 16         | S MET 34                              | RUR<br>Undesignated<br>WATER |
| S MET 35          | 14         | S MET 35                              | RUR                          |
| S MET 36          | 14         | S MET 36                              | CONS<br>RUR<br>WATER         |
| S MET 37          | 76         | S MET 37                              | CONS<br>RUR<br>WATER         |
| S WOL 00          | 10         | S WOL 00                              | RUR                          |
| <b>Total</b>      | <b>190</b> |                                       |                              |

| <b>Overwater Structures</b> |                  | <b>QuadScore</b> |             |             |          |
|-----------------------------|------------------|------------------|-------------|-------------|----------|
|                             |                  | Score 1          | Score 2     | Quad Score  |          |
| S MET 33                    | 1 dock           | S MET 31         | 0.82        | 0.72        | 3        |
| S MET 34                    | 1 dock, 1 Bridge | S MET 32         | 0.82        | 0.68        | 3        |
| S MET 31                    | none             | S MET 33         | 0.88        | 0.86        | 4        |
| S MET 32                    | none             | S MET 34         | 0.87        | 0.76        | 4        |
| S MET 35                    | none             | S MET 35         | 0.96        | 0.82        | 4        |
| S MET 36                    | none             | S MET 36         | 0.90        | 0.83        | 4        |
| S MET 37                    | 1                | S MET 37         | 0.83        | 0.79        | 4        |
| S WOL 00                    | 1                | S WOL 00         | 0.79        | 0.73        | 3        |
|                             |                  | <b>Averages:</b> | <b>0.86</b> | <b>0.77</b> | <b>4</b> |

| <b>Setbacks</b>  |               |                |              |               | <b>Subdivision Density</b> |             |
|------------------|---------------|----------------|--------------|---------------|----------------------------|-------------|
|                  | Avg           | Max            | Min          | Std Dev       |                            |             |
| S MET 31         | 213.33        | 970.00         | 20.00        | 250.21        | S MET 31                   | 0.45        |
| S MET 32         | 462.22        | 990.00         | 70.00        | 422.99        | S MET 32                   | 0.28        |
| S MET 33         | 443.64        | 1500.00        | 50.00        | 449.59        | S MET 33                   | 0.08        |
| S MET 34         | 678.00        | 1500.00        | 70.00        | 534.25        | S MET 34                   | 0.17        |
| S MET 35         | 236.75        | 1000.00        | 1.00         | 277.32        | S MET 35                   | 0.31        |
| S MET 36         | 790.00        | 1840.00        | 50.00        | 573.80        | S MET 36                   | 0.15        |
| S MET 37         | 375.28        | 1430.00        | 30.00        | 394.13        | S MET 37                   | 0.34        |
| S WOL 00         | 251.25        | 970.00         | 80.00        | 294.59        | S WOL 00                   | 0.39        |
| <b>Averages:</b> | <b>431.31</b> | <b>1275.00</b> | <b>46.38</b> | <b>399.61</b> | <b>Average:</b>            | <b>0.27</b> |

**Narrative**

The Mazama Character Zone begins at RM 67.5, where Early Winters Creek flows into the Methow River just upstream from the population center known as Mazama. This zone extends downstream through a wide glacially carved valley to RM 50.9 just west of the Town of Winthrop's Urban Growth Boundary. In addition to shorelines along the mainstem, this zone also includes shorelines associated with Wolf Creek extending approximately 2 miles upstream to the 20 cfs mark. Major tributaries include Goat Creek, Fawn Creek, and Wolf Creek. The Methow River is very dynamic through this zone, supporting a wide flood plain and channel migration zone with robust riparian forests, side channel habitats, and ox-bow wetlands. Despite the high level of ecologic integrity in this zone, shoreline modifications have been made for highway and property protection. Surrounding land uses are characterized by irrigated hay fields, rural residences, seasonal homes, and small-scale resorts and rentals. Access to the river includes Big Valley Ranch, a WDFW property; the Community trail in Mazama; and Early Winters Campground at the confluence of Early Winters Creek and the Methow River. There are also informal access points along road right of ways and at private common areas created via short and long plats.

---

**Recommendations**





| Structures |     | Current Shoreline Designations |              |
|------------|-----|--------------------------------|--------------|
| S MET 06   | 36  | S MET 06                       | RUR<br>WATER |
| S MET 07   | 10  | S MET 07                       | RUR<br>WATER |
| S MET 08   | 19  | S MET 08                       | RUR<br>WATER |
| S MET 09   | 18  | S MET 09                       | RUR<br>WATER |
| S MET 10   | 75  | S MET 10                       | RUR<br>WATER |
| S MET 11   | 15  | S MET 11                       | RUR<br>WATER |
| S MET 12   | 11  | S MET 12                       | RUR<br>WATER |
| Total      | 184 |                                |              |

| Overwater Structures |      | QuadScore |         |         |            |
|----------------------|------|-----------|---------|---------|------------|
|                      |      |           | Score 1 | Score 2 | Quad Score |
| S MET 06             | 1    | S MET 06  | 0.84    | 0.69    | 4          |
| S MET 07             | 2    | S MET 07  | 0.84    | 0.73    | 4          |
| S MET 08             | 1    | S MET 08  | 0.85    | 0.72    | 4          |
| S MET 09             | 1    | S MET 09  | 0.84    | 0.70    | 4          |
| S MET 10             | 1    | S MET 10  | 0.84    | 0.70    | 4          |
| S MET 11             | none | S MET 11  | 0.93    | 0.77    | 4          |
| S MET 12             | none | S MET 12  | 0.88    | 0.76    | 4          |
|                      |      | Averages: | 0.86    | 0.72    | 4          |

| Setbacks  |        |        |       |         | Subdivision Density |      |
|-----------|--------|--------|-------|---------|---------------------|------|
|           | Avg    | Max    | Min   | Std Dev |                     |      |
| S MET 06  | 141.50 | 330.00 | 40.00 | 80.61   | S MET 06            | 0.33 |
| S MET 07  | 184.29 | 330.00 | 40.00 | 101.96  | S MET 07            | 0.26 |
| S MET 08  | 283.00 | 870.00 | 40.00 | 309.34  | S MET 08            | 0.45 |
| S MET 09  | 141.00 | 350.00 | 40.00 | 100.71  | S MET 09            | 0.19 |
| S MET 10  | 184.87 | 890.00 | 20.00 | 200.18  | S MET 10            | 0.29 |
| S MET 11  | 208.33 | 400.00 | 50.00 | 112.32  | S MET 11            | 0.27 |
| S MET 12  | 211.67 | 430.00 | 50.00 | 132.88  | S MET 12            | 0.29 |
| Averages: |        |        |       |         | Average:            | 0.30 |

### Narrative

This character zone runs from the population center of Carlton downstream to the community of Methow, RM 26.7 – 13.3. This zone is characterized by a narrowing of the valley floor and numerous steep, forested tributaries that empty in the mainstem of the Methow River, including Cow Creek, Libby Creek, Gold Creek, McFarland Creek, and French Creek. Irrigated pastures and cropland, orchards, rangelands, and rural residential uses border the shorelines. Riparian vegetation is limited to narrow bands along the often steep banks, though some point bars do support vigorous groves of gallery forests. Highway modifications have hardened and confined the banks around most of the large meanders. There are only two developed public access points within this zone, though many informal and common areas provide local access to residents. Public lands along the shoreline between RM 26-24 could hold potential for more access.

### Recommendations







| <b>Overwater Structures</b> |      | <b>QuadScore</b> |         |         |            |
|-----------------------------|------|------------------|---------|---------|------------|
|                             |      |                  | Score 1 | Score 2 | Quad Score |
| S MET 24                    | none | S MET 24         | 0.89    | 0.76    | 4          |
| S MET 25                    | none | S MET 25         | 0.89    | 0.78    | 4          |
| S MET 26                    | none | S MET 26         | 0.90    | 0.77    | 4          |
| S MET 27                    | none | S MET 27         | 0.93    | 0.81    | 4          |
| S MET 28                    | none | S MET 28         | 0.84    | 0.72    | 4          |
|                             |      | Averages:        | 0.89    | 0.77    | 4          |

| <b>Setbacks</b> |        |         |       |         | <b>Subdivision Density</b> |      |
|-----------------|--------|---------|-------|---------|----------------------------|------|
|                 | Avg    | Max     | Min   | Std Dev |                            |      |
| S MET 24        | 631.25 | 1730.00 | 60.00 | 366.30  | S MET 24                   | 0.21 |
| S MET 25        | 711.67 | 2950.00 | 30.00 | 1117.88 | S MET 25                   | 0.08 |
| S MET 26        | 844.38 | 2160.00 | 50.00 | 847.21  | S MET 26                   | 0.12 |
| S MET 27        | 710.00 | 1370.00 | 70.00 | 589.68  | S MET 27                   | 0.18 |
| S MET 28        | 304.78 | 980.00  | 70.00 | 226.45  | S MET 28                   | 0.28 |
| Averages:       | 640.41 | 1838.00 | 56.00 | 629.50  | Average:                   | 0.18 |

**Narrative**

The Middle Methow Character Zone extends from RM 47.5, just south of the town of Winthrop UGA to the RM 41.9 to the Town of Twisp UGA. This extremely active portion of river contains wide meanders and supports a dynamic channel with abandoned and active side channels and mid-channel islands. Riparian forests of mixed cottonwoods and Ponderosa pine line the variable sloped banks and gravel bars. The surrounding land uses are primarily irrigated alfalfa fields, small-scale row crops, and rural residential homes, though there is an airport and some industrial uses as well. Open spaces in this section of river valley support large numbers of mule deer. Public access is limited to informal access along highway right-of-ways, and common areas; that is, no developed public access exists within this zone.

**Recommendations**



**Setbacks**

|           | Avg    | Max     | Min    | Std Dev |
|-----------|--------|---------|--------|---------|
| S OKA 11  | 405.45 | 1230.00 | 100.00 | 311.49  |
| S OKA 12  | 160.00 | 170.00  | 150.00 | 14.14   |
| S OKA 13  | 168.57 | 340.00  | 110.00 | 79.46   |
| Averages: | 244.68 | 580.00  | 120.00 | 135.03  |

**Subdivision Density**

|          |      |
|----------|------|
| S OKA 11 | 0.26 |
| S OKA 12 | 0.44 |
| S OKA 13 | 1.41 |
| Average: | 0.70 |

**Narrative**

The Middle Okanogan Character Zone extends downstream from RM 23 in the vicinity of Barnholt Loop to just below RM 20 north of Malott. The shoreline area is in transition from resource to residential uses and has some areas with extensive floodplain.

**Recommendations**



|          |   |           |      |      |   |
|----------|---|-----------|------|------|---|
| S SIM 07 | 1 | S SIM 07  | 0.78 | 0.40 | 1 |
|          |   | Averages: | 0.84 | 0.34 | 2 |

| <b>Setbacks</b> |        |        |        |         | <b>Subdivision Density</b> |      |
|-----------------|--------|--------|--------|---------|----------------------------|------|
|                 | Avg    | Max    | Min    | Std Dev |                            |      |
| S SIM 04        |        |        |        |         | S SIM 04                   | 0.00 |
| S SIM 05        |        |        |        |         | S SIM 05                   | 0.00 |
| S SIM 06        | 217.50 | 470.00 | 50.00  | 179.51  | S SIM 06                   | 0.04 |
| S SIM 07        | 150.00 | 150.00 | 150.00 | 0.00    | S SIM 07                   | 0.01 |
| Averages:       | 183.75 | 310.00 | 100.00 | 89.76   | Average:                   | 0.01 |

**Narrative**

The Middle Similkameen River Character Zone runs northeast from the confluence with Palmer Creek at RM 19.5 then arcs downstream to the southeast where it ends at Enloe Dam. The upper three miles of this portion of river sits in a relatively wide valley with a low gradient and supports an active floodplain. Surrounding slopes include shrub-steppe and forested habitats, while agricultural fields occupy first and second flood terraces. Abandoned mines and mill sites and small-scale gold dredge mining occurs within this reach of the river. It is believed that Salmon never reached this portion of the Similkameen. Riparian cover is limited by agricultural use. Public access occurs at informal pull-outs along the Loomis-Oroville Rd with one primitive BLM campsite located at Similkameen Camp.

**Recommendations**



## Recommendations











**Overwater Structures**

|          |      |
|----------|------|
| S OKA 14 | 1    |
| S OKA 15 | 1    |
| S OKA 16 | none |

**QuadScore**

|           | Score 1 | Score 2 | Quad Score |
|-----------|---------|---------|------------|
| S OKA 14  | 0.59    | 0.61    | 3          |
| S OKA 15  | 0.67    | 0.59    | 3          |
| S OKA 16  | 0.83    | 0.55    | 4          |
| Averages: | 0.70    | 0.58    | 3          |

**Setbacks**

|           | Avg    | Max     | Min   | Std Dev |
|-----------|--------|---------|-------|---------|
| S OKA 14  | 482.69 | 3230.00 | 0.00  | 394.86  |
| S OKA 15  | 225.01 | 1450.00 | 1.00  | 241.32  |
| S OKA 16  | 646.82 | 1590.00 | 30.00 | 399.70  |
| Averages: | 451.50 | 2090.00 | 10.33 | 345.29  |

**Subdivision Density**

|          |      |
|----------|------|
| S OKA 14 | 0.72 |
| S OKA 15 | 1.86 |
| S OKA 16 | 1.00 |
| Average: | 1.19 |

**Narrative**

The Okanogan City Character Zone includes those shorelines along the main stem of the Okanogan River and lower Salmon Creek within the UGA of the City of Okanogan as well as lands downstream along the Okanogan River to the vicinity of Barnholt Loop. Salmon Creek is the major tributary for this section river. However, Salmon Creek does not meet the 20 cfs minimum required for designation of its shoreline due to irrigation withdrawal 4.3 miles upstream. The main stem of the Okanogan River through this zone is confined to a single channel by channelization and armoring for levees and flood control. A narrow band of riparian vegetation exists throughout the zone however, providing a green buffer. Land uses span the range of urban development from rural residential, commercial, educational, institutional and industrial uses throughout this zone. Public Access exists at the Alma City Park, at the entrance to the Wastewater Treatment Plant and informal access points exist at Legion Park, at city owned property surrounding the treatment plant and along road rights-of-way and bridge crossings. Overall, access to the riverfront is limited within the City limits.

The shoreline area is the southern end of the Character Zone lies outside the urban growth area and is slowly changing from resource to residential uses.

**Recommendations**





RUR  
 SUB/CONS  
 Undesignated  
 URB/CONS  
 WATER  
 S OKA 19  
 RUR  
 Undesignated  
 WATER

| Overwater Structures |           | QuadScore |         |         |            |
|----------------------|-----------|-----------|---------|---------|------------|
| S OKA                | Structure | S OKA     | Score 1 | Score 2 | Quad Score |
| S OKA 17             | none      | S OKA 17  | 0.69    | 0.62    | 3          |
| S OKA 18             | 2         | S OKA 18  | 0.74    | 0.69    | 3          |
| S OKA 19             | none      | S OKA 19  | 0.85    | 0.61    | 4          |
| Averages:            |           | Averages: | 0.76    | 0.64    | 3          |

| Setbacks  |        |         |        |         | Subdivision Density |          |      |
|-----------|--------|---------|--------|---------|---------------------|----------|------|
| S OKA     | Avg    | Max     | Min    | Std Dev | S OKA               | Density  |      |
| S OKA 17  | 155.91 | 650.00  | 0.00   | 193.53  | S OKA 17            | 0.35     |      |
| S OKA 18  | 233.26 | 1250.00 | 20.00  | 256.05  | S OKA 18            | 1.91     |      |
| S OKA 19  | 307.73 | 870.00  | 40.00  | 195.57  | S OKA 19            | 0.25     |      |
| Averages: |        | 232.30  | 923.33 | 20.00   | 215.05              | Average: | 0.84 |

**Narrative**

The Omak City Character Zone runs from RM 35 near the northern boundary of Omak’s UGA downstream to RM 27.5 at the city of Okanogan’s northern UGA boundary. The river through Omak takes on a variety of characteristics ranging from free flowing and complex at the lower portion to Corps of Engineers built levees and steep bluffs abutting the river through the heart of the city. Along Aston Island side channels support active wetlands. This wilder portion gives way to a constrained portion where a levees line both sides of the shoreline through the downtown where uses include residential and commercial developments. The northern reaches through Omak and north support rural residential development amidst a unique landscape pocked by massive boulders in the floodplain. Riparian vegetation is typically established between the armored banks and the river throughout this reach. The Omak Eastside Park and Stampede Grounds are an important cultural site in this zone. Public access exists at the Stampede Grounds as well as at Aston Island and Pioneer Park. The northern portion has limited public access.

**Recommendations**



| Structures |     | Current Shoreline Designations |       |
|------------|-----|--------------------------------|-------|
| S OKA 40   | 90  | S OKA 40                       | DIKED |
| S OKA 41   | 186 |                                | RUR   |
| S SIM 01   | 33  |                                | SUB   |
| S SIM 02   | 21  |                                | URB   |
|            |     |                                | WATER |
| Total      | 330 | S OKA 41                       | SUB   |
|            |     |                                | URB   |
|            |     |                                | WATER |
|            |     | S SIM 01                       | DIKED |
|            |     |                                | RUR   |
|            |     |                                | WATER |
|            |     | S SIM 02                       | CONS  |
|            |     |                                | RUR   |
|            |     |                                | SUB   |
|            |     |                                | URB   |
|            |     |                                | WATER |

| Overwater Structures |                           | QuadScore |         |         |            |
|----------------------|---------------------------|-----------|---------|---------|------------|
|                      |                           |           | Score 1 | Score 2 | Quad Score |
| S OKA 41             | 1 float, 1 dock, 1 bridge |           |         |         |            |
| S OKA 40             | 2                         | S OKA 40  | 0.53    | 0.70    | 3          |
| S SIM 01             | none                      | S OKA 41  | 0.56    | 0.61    | 3          |
| S SIM 02             | 1                         | S SIM 01  | 0.66    | 0.63    | 3          |
|                      |                           | S SIM 02  | 0.70    | 0.56    | 3          |
|                      |                           | Averages: | 0.61    | 0.63    | 3          |

| Setbacks  |        |         |       |         | Subdivision Density |      |
|-----------|--------|---------|-------|---------|---------------------|------|
|           | Avg    | Max     | Min   | Std Dev |                     |      |
| S OKA 40  | 777.69 | 2180.00 | 20.00 | 615.35  | S OKA 40            | 0.15 |
| S OKA 41  | 339.55 | 880.00  | 5.00  | 230.00  | S OKA 41            | 0.94 |
| S SIM 01  | 166.25 | 490.00  | 70.00 | 87.17   | S SIM 01            | 0.28 |
| S SIM 02  | 303.33 | 980.00  | 30.00 | 276.91  | S SIM 02            | 0.13 |
| Averages: | 396.71 | 1132.50 | 31.25 | 302.36  | Average:            | 0.37 |

### Narrative

Shorelines within the Oroville City Character Zone include portions of the Similkameen and Okanogan Rivers upstream of their confluence and within the most heavily developed areas of Oroville. This zone is urbanized, yet the river systems maintain a high degree of channel complexity, including wide meanders, wetlands, and side channels. Development along the rivers includes commercial, industrial, and residential uses. WDFW also holds large tracts of land south of the confluence on Okanogan River (Driscoll Island). River access is well provided for in the northern portion of this zone on the Okanogan. The southern portion contains two WDFW access sites in the vicinity of the confluence. Lake Osoyoos State Park, located at the outlet of Lake Osoyoos into the Okanogan River provides a developed access and a variety of recreation improvements.

The Similkameen River portion of the Character zone begins where the river emerges from the narrow canyon at the old rail trestle. The river is sinuous and levels out creating large meanders and a well developed floodplain associated with the confluence with the Okanogan River. Surrounding land uses include orchards, range lands, and rural – urban residential at Oroville. Public access is available at the 12th Street Bridge and sewer treatment plant in Oroville.

### Recommendations



## Recommendations



|          |      |           |      |      |   |
|----------|------|-----------|------|------|---|
| L PAL 04 | none | L PAL 03  | 0.86 | 0.51 | 2 |
|          |      | Averages: | 0.84 | 0.53 | 2 |

| <b>Setbacks</b> |        |        |       |         | <b>Subdivision Density</b> |      |
|-----------------|--------|--------|-------|---------|----------------------------|------|
|                 | Avg    | Max    | Min   | Std Dev |                            |      |
| L PAL 01        | 119.17 | 160.00 | 70.00 | 29.37   | L PAL 01                   | 0.59 |
| L PAL 02        | 130.95 | 380.00 | 30.00 | 100.05  | L PAL 02                   | 0.74 |
| Averages:       | 125.06 | 270.00 | 50.00 | 64.71   | L PAL 03                   | 0.00 |
|                 |        |        |       |         | L PAL 04                   | 0.00 |
|                 |        |        |       |         | Average:                   | 0.33 |

#### **Narrative**

Palmer Lake is located in Sect 11 T39N R25E. Measuring at over 2,000 acres, this is a lake of Statewide Significance. The shoreline is both privately and publicly owned. The lake is a glacially carved trough fed by the Sinlahekin River. Outflow of the lake is via Palmer Creek which flows into the Similakmeen River through a complex, braided wetland system. Surrounding land uses are primarily open range lands with some orchards to the east. The south and western shoreline is a steep, barren hillside with rock outcrops, whereas the north and eastern edges are more gradual and lined with vegetation. Private development along the eastern shoreline consists of permanent and seasonal residences and some private docks. There is a developed boat launch at the southern tip of the lake, a DNR campground and resort near the northern end and other public, undeveloped access points on the west and northern shorelines.

#### **Recommendations**





Parks and the park is used heavily for watercraft, camping, hiking and fishing. WDFW owns the eastern shoreline, and there are some private in-holdings along the southwest corner of the lake.

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### **Recommendations**





levee is intact and robust, but limited to this narrow strip. The surrounding land uses include residential within the town proper and agriculture outside the town center. There are two developed public access sites within Riverside.

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## **Recommendations**











**Narrative**

Sinlahekin Creek out of the mountains on the western side of the valley and where it reaches the valley floor (T37N, R25E) it is diverted to flow into either Blue Lake for irrigation storage or northward through a series of impoundments and shallow pools connected by a meandering channel of low gradient. From the 1880's through the 1930's, the valley was filled with farms and ranches which have all subsequently been purchased by the Whitestone Reclamation District and more recently by the Washington Department of Fish and Wildlife (WDFW). This portion of the creek is flanked by relatively steep forested banks, but occupies a flat valley that supports flooding and extensive shrub wetlands along the banks. There are numerous WDFW campsites along the creek and impoundments (Connors and Forde Lakes and Reflection Pond) for fishing and camping. The WDFW also farms some of its land along the creek with dryland and irrigated hay.

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**Recommendations**



**Overwater Structures**

|          |                            |
|----------|----------------------------|
| L SPE 01 | 1 launch, 1 dock           |
| L SPE 02 | 2 docks, 1 launch, 1 float |
| L SPE 03 | 2 docks, 1 float, 1 pier   |
| L SPE 04 | none                       |
| L SPE 05 | none                       |
| L SPE 06 | none                       |

**QuadScore**

|           | Score 1 | Score 2 | Quad Score |
|-----------|---------|---------|------------|
| L SPE 06  | 0.79    | 0.43    | 1          |
| L SPE 05  | 0.81    | 0.46    | 1          |
| L SPE 03  | 0.79    | 0.24    | 1          |
| L SPE 01  | 0.73    | 0.21    | 1          |
| L SPE 02  | 0.72    | 0.22    | 1          |
| L SPE 04  | 0.72    | 0.26    | 1          |
| Averages: | 0.76    | 0.30    | 1          |

**Setbacks**

|           | Avg   | Max    | Min   | Std Dev |
|-----------|-------|--------|-------|---------|
| L SPE 01  | 74.44 | 220.00 | 0.00  | 70.73   |
| L SPE 02  | 71.36 | 150.00 | 30.00 | 42.78   |
| L SPE 03  | 91.25 | 290.00 | 10.00 | 88.06   |
| Averages: | 79.02 | 220.00 | 13.33 | 67.19   |

**Subdivision Density**

|          |      |
|----------|------|
| L SPE 01 | 1.44 |
| L SPE 02 | 1.23 |
| L SPE 03 | 3.03 |
| L SPE 04 | 0.00 |
| L SPE 05 | 0.00 |
| L SPE 06 | 0.00 |
| Average: | 0.95 |

**Narrative**

Spectacle Lake is located in Section 2 T38N R26E. The lake, which is 313 acres in area, is an irrigation reservoir for the Whitestone Reclamation District filled from Toats Coulee Creek. The lake, with live storage of 6,850 acre feet, sits in a narrow valley trough with an orientation east-west. The northern shoreline supports orchards, small resorts and range land at the toe of gentle, bare slopes, whereas the southern shoreline is bordered by steep bluffs of undeveloped ONF land with scattered trees and forests.

**Recommendations**





## Recommendations



|             |           |
|-------------|-----------|
| S OKA 30    | 112       |
| S OKA 31    | 88        |
| S OKA 32    | 82        |
| <hr/> Total | <hr/> 326 |

|          |          |
|----------|----------|
|          | RUR      |
|          | URB      |
| S OKA 30 | CONS/URB |
|          | RUR      |
|          | SUB      |
|          | WATER    |
| S OKA 31 | CONS/URB |
|          | RUR      |
|          | SUB      |
|          | WATER    |
| S OKA 32 | CONS/URB |
|          | RUR      |
|          | WATER    |

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**Overwater Structures**

|          |      |
|----------|------|
| S BON 01 | 3    |
| S OKA 30 | none |
| S OKA 31 | 1    |
| S OKA 32 | none |

**QuadScore**

|           | Score 1 | Score 2 | Quad Score |
|-----------|---------|---------|------------|
| S BON 01  | 0.70    | 0.29    | 1          |
| S OKA 30  | 0.67    | 0.60    | 3          |
| S OKA 31  | 0.67    | 0.58    | 3          |
| S OKA 32  | 0.71    | 0.62    | 3          |
| Averages: | 0.69    | 0.52    | 3          |

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**Setbacks**

|           | Avg    | Max     | Min   | Std Dev |
|-----------|--------|---------|-------|---------|
| S BON 01  | 120.29 | 440.00  | 30.00 | 91.70   |
| S OKA 30  | 320.82 | 860.00  | 60.00 | 211.59  |
| S OKA 31  | 152.65 | 470.00  | 30.00 | 104.66  |
| S OKA 32  | 287.93 | 1010.00 | 0.00  | 305.24  |
| Averages: | 220.42 | 695.00  | 30.00 | 178.30  |

**Subdivision Density**

|          |      |
|----------|------|
| S BON 01 | 2.27 |
| S OKA 30 | 0.49 |
| S OKA 31 | 2.15 |
| S OKA 32 | 0.28 |
| Average: | 1.30 |

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**Narrative**

The Tonasket City Character Zone includes those shorelines within and adjoining the UGA of Tonasket, RM 61.0 - 55, and along the lowest portion of Bonaparte Creek within the UGA. At Tonasket, three tributaries, Bonaparte Creek, Siwash Creek, and Unnamed Creek, flow into the main stem, creating a wide shoreline jurisdiction. Uses include commercial, residential, and some industrial areas in the central zone, while agricultural, orchards, and rural residential are found outside. Public access is developed at Lagoons City Park. Informal access exists History Park and at bridge crossings and ROWs, but otherwise is limited in town.

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**Recommendations**





|          |      |           |      |      |   |
|----------|------|-----------|------|------|---|
| S TWI 05 | none | S TWI 05  | 0.94 | 0.83 | 4 |
| S TWI 06 | none | S TWI 06  | 0.82 | 0.78 | 3 |
|          |      | Averages: | 0.87 | 0.77 | 4 |

| <b>Setbacks</b> |        |         |       |         | <b>Subdivision Density</b> |      |
|-----------------|--------|---------|-------|---------|----------------------------|------|
|                 | Avg    | Max     | Min   | Std Dev |                            |      |
| S TWI 02        | 168.13 | 570.00  | 3.00  | 136.04  | S TWI 02                   | 0.36 |
| S TWI 03        | 233.30 | 1200.00 | 3.00  | 347.60  | S TWI 03                   | 0.15 |
| S TWI 04        | 430.77 | 1390.00 | 90.00 | 347.84  | S TWI 04                   | 0.28 |
| S TWI 05        | 376.25 | 720.00  | 1.00  | 266.94  | S TWI 05                   | 0.15 |
| S TWI 06        | 180.00 | 490.00  | 70.00 | 161.49  | S TWI 06                   | 0.44 |
| Averages:       | 277.69 | 874.00  | 33.40 | 251.98  | Average:                   | 0.28 |

#### **Narrative**

The Twisp River Character Zone begins at the Eagle Creek and flows east to a point a couple miles upstream from Twisp, approximately 12 miles. The Twisp River is a major tributary of the Methow River and support anadromous fish. Much of the river has been channelized through diking and riprap for property protection to support surrounding agricultural and residential uses. Despite this, riparian forests are still supported as is a narrow flood plain. The river meanders through a series of terraced benches where surrounding properties are rural residential and agricultural in nature. Public access can be found about 5 miles upstream at WDFW site and at ONF sites. However, the lower reaches are underserved for public access given the proximity to Twisp and the surrounding residential developments.

#### **Recommendations**



|          |      |           |         |         |            |
|----------|------|-----------|---------|---------|------------|
| S MET 23 | 1    |           | Score 1 | Score 2 | Quad Score |
| S MET 24 | none | S MET 23  | 0.79    | 0.69    | 3          |
| S TWI 01 | 2    | S MET 24  | 0.89    | 0.76    | 4          |
|          |      | S TWI 01  | 0.78    | 0.81    | 3          |
|          |      | Averages: | 0.82    | 0.75    | 3          |

| <b>Setbacks</b> |        |         |       |         | <b>Subdivision Density</b> |      |
|-----------------|--------|---------|-------|---------|----------------------------|------|
|                 | Avg    | Max     | Min   | Std Dev |                            |      |
| S MET 23        | 294.90 | 1140.00 | 9.60  | 275.18  | S MET 23                   | 0.60 |
| S MET 24        | 631.25 | 1730.00 | 60.00 | 366.30  | S MET 24                   | 0.21 |
| S TWI 01        | 253.38 | 990.00  | 20.00 | 219.28  | S TWI 01                   | 0.42 |
| Averages:       | 393.18 | 1286.67 | 29.87 | 286.92  | Average:                   | 0.41 |

### **Narrative**

The shorelines in Twisp Town include those portions of the Twisp and Methow Rivers within and adjoining the UGA of Twisp. The Twisp River portion of this zone begins about 2 miles upstream from the Town and is generally unconstrained. As the Twisp River reaches Town, it is stabilized by a flood levee on the southern bank. Where the Methow and Twisp rivers meet, a dynamic alluvial fan from the Twisp inputs large gravels, boulders and cobbles, creating large bars during low water. This area is heavily used by town residents and visitors for fishing, swimming, and beach combing. Surrounding land uses are primarily residential, open space and parks, and a large amount of former industrial and agricultural land. The mainstem of the Methow River is channelized through town and reinforced for bridge abutments at Highway 20. A narrow riparian forest of cottonwoods lines the otherwise steep banks. Public access on the Methow is provided as Twisp park, at the end of E. 2nd Avenue and informal access for foot traffic is found at the Highway 20 bridge. Access on the Twisp is found at the Methow Salmon Recovery Foundation property and at the county road bridge just west of the Town limits.

### **Recommendations**



|          |      |           |      |      |   |
|----------|------|-----------|------|------|---|
| S MET 24 | none | S MET 23  | 0.79 | 0.69 | 3 |
| S TWI 01 | 2    | S MET 24  | 0.89 | 0.76 | 4 |
|          |      | S TWI 01  | 0.78 | 0.81 | 3 |
|          |      | Averages: | 0.82 | 0.75 | 3 |

| <b>Setbacks</b> |        |         |       |         | <b>Subdivision Density</b> |      |
|-----------------|--------|---------|-------|---------|----------------------------|------|
|                 | Avg    | Max     | Min   | Std Dev |                            |      |
| S MET 23        | 294.90 | 1140.00 | 9.60  | 275.18  | S MET 23                   | 0.60 |
| S MET 24        | 631.25 | 1730.00 | 60.00 | 366.30  | S MET 24                   | 0.21 |
| S TWI 01        | 253.38 | 990.00  | 20.00 | 219.28  | S TWI 01                   | 0.42 |
| Averages:       | 393.18 | 1286.67 | 29.87 | 286.92  | Average:                   | 0.41 |

#### **Narrative**

The shorelines in Twisp Town include those portions of the Twisp and Methow Rivers within and adjoining the UGA of Twisp. The Twisp River portion of this zone begins about 2 miles upstream from the Town and is generally unconstrained. As the Twisp River reaches Town, it is stabilized by a flood levee on the southern bank. Where the Methow and Twisp rivers meet, a dynamic alluvial fan from the Twisp inputs large gravels, boulders and cobbles, creating large bars during low water. This area is heavily used by town residents and visitors for fishing, swimming, and beach combing. Surrounding land uses are primarily residential, open space and parks, and a large amount of former industrial and agricultural land. The mainstem of the Methow River is channelized through town and reinforced for bridge abutments at Highway 20. A narrow riparian forest of cottonwoods lines the otherwise steep banks. Public access on the Methow is provided as Twisp park, at the end of E. 2nd Avenue and informal access for foot traffic is found at the Highway 20 bridge. Access on the Twisp is found at the Methow Salmon Recovery Foundation property and at the county road bridge just west of the Town limits.

#### **Recommendations**



|          |     |
|----------|-----|
| S MET 40 | 1   |
| Total    | 165 |

|          |      |
|----------|------|
| S MET 39 | CONS |
| S MET 40 | CONS |

| Overwater Structures |      | QuadScore |         |            |
|----------------------|------|-----------|---------|------------|
|                      |      | Score 1   | Score 2 | Quad Score |
| S EAR 01             | 1    | 0.90      | 0.72    | 4          |
| S EAR 02             | none | 0.88      | 0.71    | 4          |
| S MET 37             | 1    | 0.83      | 0.79    | 4          |
| S MET 38             | none | 0.85      | 0.82    | 4          |
| S MET 39             | none | 0.80      | 0.77    | 3          |
| S MET 40             | none | 0.89      | 0.77    | 4          |
| Averages:            |      | 0.86      | 0.76    | 4          |

| Setbacks  |         |         |         |         | Subdivision Density |      |
|-----------|---------|---------|---------|---------|---------------------|------|
|           | Avg     | Max     | Min     | Std Dev |                     |      |
| S EAR 01  | 360.00  | 360.00  | 360.00  | 0.00    | S EAR 01            | 0.22 |
| S EAR 02  |         |         |         |         | S EAR 02            | 0.50 |
| S MET 37  | 375.28  | 1430.00 | 30.00   | 394.13  | S MET 37            | 0.34 |
| S MET 38  | 511.18  | 1430.00 | 40.00   | 427.06  | S MET 38            | 0.23 |
| S MET 39  | 238.06  | 560.00  | 30.00   | 171.18  | S MET 39            | 2.41 |
| S MET 40  | 1000.00 | 1000.00 | 1000.00 | 0.00    | S MET 40            | 0.46 |
| Averages: | 496.90  | 956.00  | 292.00  | 198.47  | Average:            | 0.69 |

#### Narrative

The Upper Methow Character Zone begins just upstream of where Lost River joins the Methow River. This portion of river is highly dynamic, draining a vast wilderness landscape of steep forested hills and snow and glacially covered peaks. The river flows in a south east direction where numerous small tributaries and streams contribute sediment and flows. Early Winters Creek enters the system at RM 67.5 creating an alluvial fan where the river meanders through large cobbles and sediments, creating a complex channel structure. This character zone is highly active with a wide floodplain that actively recruits new cottonwoods and riparian vegetation. Shorelines are largely forested and relatively undeveloped in this zone although vacation and full time homes, including a few large track conservation properties and resorts, do occupy the surrounding lands. Public access is highly developed via a trail network for both summer and winter access to the river.

#### Recommendations



|          |     |
|----------|-----|
| S OKA 35 | 5   |
| S OKA 36 | 10  |
| S OKA 37 | 24  |
| S OKA 38 | 16  |
| S OKA 39 | 11  |
| Total    | 186 |

|          |                              |
|----------|------------------------------|
| S OKA 34 | RUR<br>WATER                 |
| S OKA 35 | RUR<br>WATER                 |
| S OKA 36 | RUR<br>WATER                 |
| S OKA 37 | RUR<br>WATER                 |
| S OKA 38 | RUR<br>WATER                 |
| S OKA 39 | DIKED<br>RUR<br>URB<br>WATER |

| Overwater Structures |        | QuadScore |         |         |            |
|----------------------|--------|-----------|---------|---------|------------|
|                      |        |           | Score 1 | Score 2 | Quad Score |
| S OKA 33             | 1 dock | S OKA 33  | 0.74    | 0.66    | 3          |
| S OKA 34             | 1      | S OKA 34  | 0.76    | 0.73    | 3          |
| S OKA 35             | none   | S OKA 35  | 0.92    | 0.74    | 4          |
| S OKA 36             | none   | S OKA 36  | 0.90    | 0.81    | 4          |
| S OKA 37             | none   | S OKA 37  | 0.85    | 0.74    | 4          |
| S OKA 38             | none   | S OKA 38  | 0.86    | 0.73    | 4          |
| S OKA 39             | none   | S OKA 39  | 0.89    | 0.78    | 4          |
| Averages:            |        |           | 0.85    | 0.74    | 4          |

| Setbacks  |        |         |        |         | Subdivision Density |      |
|-----------|--------|---------|--------|---------|---------------------|------|
|           | Avg    | Max     | Min    | Std Dev |                     |      |
| S OKA 33  | 772.89 | 1780.00 | 40.00  | 513.09  | S OKA 33            | 0.21 |
| S OKA 34  | 714.33 | 2180.00 | 50.00  | 573.04  | S OKA 34            | 0.09 |
| S OKA 35  | 315.00 | 340.00  | 290.00 | 35.36   | S OKA 35            | 0.00 |
| S OKA 36  | 186.43 | 620.00  | 2.00   | 222.98  | S OKA 36            | 0.01 |
| S OKA 37  | 259.17 | 1040.00 | 60.00  | 270.97  | S OKA 37            | 0.03 |
| S OKA 38  | 483.44 | 2400.00 | 1.00   | 768.64  | S OKA 38            | 0.04 |
| S OKA 39  | 393.75 | 2400.00 | 40.00  | 812.21  | S OKA 39            | 0.01 |
| Averages: |        |         |        |         | Average:            | 0.06 |

**Narrative**

The Upper Okanogan Character Zone begins at the confluence of the Similkameen River with where lake Osoyoos outflows and forms the Okanogan at Oroville and runs south 15 miles, RM 76 - 61. The river meanders southward through a wide floodplain that narrows as it approaches Tonasket at RM 58. The confluence area is a low gradient, complex channel with multiple wide meanders, side channels, wetlands, point bars, and islands. This portion supports seasonal grazing, but is otherwise free flowing and dynamic. As the floodplain begins to narrow near RM 64, orchards and intensive agriculture begin to dominate the surrounding landscape. No developed or established public access exists within this 15 mile stretch.

**Recommendations**



## Recommendations





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Averages: 0.75 0.43 1

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**Setbacks**

|           | Avg    | Max    | Min   | Std Dev |
|-----------|--------|--------|-------|---------|
| L WAN 01  | 126.67 | 340.00 | 20.00 | 125.17  |
| L WAN 02  | 135.47 | 710.00 | 10.00 | 144.97  |
| Averages: | 131.07 | 525.00 | 15.00 | 135.07  |

**Subdivision Density**

|          |      |
|----------|------|
| L WAN 01 | 0.21 |
| L WAN 02 | 0.99 |
| L WAN 03 | 0.00 |
| L WAN 04 | 0.00 |
| Average: | 0.30 |

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**Narrative**

Wannacut Lake lies with T39N R26N in Section 24. The lake sits in a north/south trough surrounded by moderately forested hills. The shoreline measures approximate 5 miles in length. The eastern shoreline has been heavily subdivided for residential/vacation cabins, while the western shoreline is still intact and supports open range lands. There is one public access site in SW corner of the lake with a boat ramp.

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**Recommendations**



water and some sewer). Public access is found along the western shoreline at the City of Oroville Deep Bay with picnic, launch and swimming areas and numerous private campgrounds and small resorts that provide access.

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## **Recommendations**



Unclassified  
 Unclassified  
 Unclassified  
 Unclassified  
 Unclassified

| <b>Structures</b> |           | <b>Current Shoreline Designations</b> |              |
|-------------------|-----------|---------------------------------------|--------------|
| S SAN 01          |           | S SAN 01                              | RUR          |
| S SAN 02          |           | S SAN 02                              | RUR          |
| S SAN 03          |           | S SAN 03                              | RUR          |
| S SAN 04          | 3         | S SAN 04                              | RUR          |
| S SAN 05          | 3         | S SAN 05                              | RUR          |
| S SAN 06          | 4         | S SAN 06                              | RUR          |
| S SAN 07          | 9         | S SAN 07                              | RUR          |
| S SAN 08          |           | S SAN 08                              | Undesignated |
| S SAN 09          | 6         | S SAN 09                              | Undesignated |
| S SAN 10          | 5         | S SAN 10                              | Undesignated |
| S SAN 11          | 4         | S SAN 11                              | Undesignated |
| S SAN 12          | 4         | S SAN 12                              | Undesignated |
| <b>Total</b>      | <b>38</b> |                                       |              |

| <b>Overwater Structures</b> |      | <b>QuadScore</b> |         |         |            |
|-----------------------------|------|------------------|---------|---------|------------|
|                             |      |                  | Score 1 | Score 2 | Quad Score |
| S SAN 01                    | none | S SAN 01         | 0.92    | 0.55    | 4          |
| S SAN 02                    | none | S SAN 02         | 0.95    | 0.53    | 2          |
| S SAN 03                    | 1    | S SAN 03         | 0.82    | 0.30    | 1          |
| S SAN 04                    | none | S SAN 04         | 0.94    | 0.54    | 2          |
| S SAN 05                    | none | S SAN 05         | 0.87    | 0.34    | 2          |
| S SAN 06                    | none | S SAN 06         | 0.94    | 0.42    | 2          |
| S SAN 07                    | 2    | S SAN 07         | 0.80    | 0.38    | 1          |
| S SAN 08                    | none | S SAN 08         | 0.90    | 0.40    | 2          |
| S SAN 09                    | none | S SAN 09         | 0.93    | 0.48    | 2          |
| S SAN 10                    | 1    | S SAN 10         | 0.82    | 0.48    | 1          |
| S SAN 11                    | none | S SAN 11         | 0.94    | 0.48    | 2          |
| S SAN 12                    | 1    | S SAN 12         | 0.91    | 0.53    | 2          |
|                             |      | <b>Averages:</b> | 0.90    | 0.45    | 2          |

| <b>Setbacks</b> |        |        |        |         | <b>Subdivision Density</b> |      |
|-----------------|--------|--------|--------|---------|----------------------------|------|
|                 | Avg    | Max    | Min    | Std Dev |                            |      |
| S SAN 01        |        |        |        |         | S SAN 01                   | 0.04 |
| S SAN 02        |        |        |        |         | S SAN 02                   | 0.02 |
| S SAN 03        | 10.00  | 10.00  | 10.00  | 0.00    | S SAN 03                   | 0.05 |
| S SAN 04        | 175.00 | 340.00 | 10.00  | 233.35  | S SAN 04                   | 0.03 |
| S SAN 05        | 340.00 | 340.00 | 340.00 | 0.00    | S SAN 05                   | 0.13 |
| S SAN 06        | 375.00 | 410.00 | 340.00 | 49.50   | S SAN 06                   | 0.10 |
| S SAN 07        | 173.00 | 390.00 | 2.00   | 162.47  | S SAN 07                   | 0.21 |
| S SAN 08        |        |        |        |         | S SAN 08                   | 0.19 |
|                 |        |        |        |         | S SAN 09                   | 0.29 |

|           |        |        |        |        |          |      |
|-----------|--------|--------|--------|--------|----------|------|
| S SAN 09  | 284.00 | 490.00 | 50.00  | 200.95 | S SAN 10 | 0.14 |
| S SAN 10  | 210.00 | 250.00 | 140.00 | 60.83  | S SAN 11 | 0.20 |
| S SAN 11  | 293.33 | 520.00 | 150.00 | 198.58 | S SAN 12 | 0.11 |
| S SAN 12  | 352.50 | 500.00 | 100.00 | 190.68 | Average: | 0.13 |
| Averages: | 245.87 | 361.11 | 126.89 | 121.82 |          |      |

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#### **Narrative**

The West Fork of the Sanpoil River drains an area of nearly 200,000 acres. This portion of the Sanpoil runs in a SE direction from T36N, R30E to T35N, R31E for approximately 10 miles before it enters the mainstem of the Sanpoil. The surrounding landscape includes forested slopes and open rangelands. The West Fork of the Sanpoil sustains an actively floodplain with wide meanders that supports agriculture and grazing. Ownership includes private and Forest Service lands. No public access is documented.

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#### **Recommendations**



Reclamation District (WRD), measures 147 acres and provides 960 acre feet of storage. The WRD maintains the control structure and dam and provides the water from Toats Coulee Creek to maintain the lake at it's present size. The lake supports a spiny ray fishery. The northeastern shoreline has been stabilized for the Loomis-Oroville RD. A boat launch on State land provides access.

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#### **Recommendations**



|          |      |           |         |         |            |
|----------|------|-----------|---------|---------|------------|
| S CHE 01 | 2    |           | Score 1 | Score 2 | Quad Score |
| S MET 29 | 1    | S CHE 01  | 0.79    | 0.71    | 3          |
| S MET 30 | none | S MET 29  | 0.80    | 0.70    | 3          |
|          |      | S MET 30  | 0.80    | 0.71    | 3          |
|          |      | Averages: | 0.80    | 0.71    | 3          |

| <b>Setbacks</b> |        |         |       |         | <b>Subdivision Density</b> |      |
|-----------------|--------|---------|-------|---------|----------------------------|------|
|                 | Avg    | Max     | Min   | Std Dev |                            |      |
| S CHE 01        | 107.75 | 880.00  | 4.00  | 116.05  | S CHE 01                   | 1.79 |
| S MET 29        | 190.21 | 820.00  | 40.00 | 159.27  | S MET 29                   | 0.73 |
| S MET 30        | 319.21 | 1310.00 | 20.00 | 322.42  | S MET 30                   | 0.41 |
| Averages:       | 205.72 | 1003.33 | 21.33 | 199.25  | Average:                   | 0.98 |

### **Narrative**

Shorelines in the Town of Winthrop include the Chewack River from about RM 0.5 downstream to the confluence with the Methow River, and the Methow River between RM 49-51. Where these rivers meet is a dynamic braided channel. Efforts to control channel movement have resulted in a flood control levee along the right bank of the Methow (which serves a ski trail in the winter) and extensive rip rap along the Chewack to protect riverfront businesses and two bridges. Nevertheless, this highly developed portion of the river still maintains a high level of ecological integrity and the Winthrop Park offers direct public access at the confluence for fishing, swimming and light boat craft launch. A pedestrian bridge at the north end of downtown provides access to a new park area along the Chewuch River and in south Winthrop, Heckendorn Park provides access to the Methow. Visual access to the river is an important feature to the town's identity as the riverfront properties command high real estate values. Recreation and commercial interests are a top priority for shorelines in this zone.

### **Recommendations**



|          |      |           |      |      |   |
|----------|------|-----------|------|------|---|
| S MET 29 | 1    | S CHE 01  | 0.79 | 0.71 | 3 |
| S MET 30 | none | S MET 29  | 0.80 | 0.70 | 3 |
|          |      | S MET 30  | 0.80 | 0.71 | 3 |
|          |      | Averages: | 0.80 | 0.71 | 3 |

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**Recommendations**



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|          |      | S MET 30  | 0.80 | 0.71 | 3 |
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