LOCATION SELECTION CRITERIA

• VACANT LAND (MIN 1 AC, IDEALLY 2 AC) AND IDEALLY CITY OWNED
• CLOSE TO TRANSMISSION MAINS – WITHIN 5 OR 6 BLOCKS
• NEAR THE CENTER OF THE PRESSURE ZONE
• ELEVATION OF APPROX. 2380’ OR HIGHER TO KEEP RESERVOIR HEIGHT TO 100’ OR LESS
• RELATIVELY FLAT
• MAXIMIZE DISTANCE TO ADJACENT HOMES
LOCATION SELECTION

Near center of pressure zone
LOCATION SELECTION

- Near center of pressure zone
- Close to transmission main

Map showing locations of high pressure zones, transmission main, and storage tanks.
LOCATION SELECTION

- Near center of pressure zone
- Close to transmission main
- Above about 2380

Note: land slopes downhill north of 29th Ave and is therefore too low for a tank.
LOCATION SELECTION

- Near center of pressure zone
- Close to transmission main
- Above about 2380
- Meets all three criteria
LOCATION SELECTION

- Feasible area outlined green below
- Feasible tank site must be:
  - Vacant and at least 1-2 acres
  - Relatively flat
  - Ideally city owned
This is the feasible area circled green on the preceding exhibit.
Feasible site within this area needs to be:
• 1-2 acres
Feasible site within this area needs to be:
• 1-2 acres
Criteria to evaluate
Close to existing t-main?
Nr center of pressure zone?
At or above 2380’?
Vacant land min 1 ac?
Relatively flat?
City owned?
Distant from nearby homes?
<table>
<thead>
<tr>
<th>Criteria</th>
<th>Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Close to existing t-main</td>
<td>yes</td>
</tr>
<tr>
<td>Nr center of pressure zone</td>
<td>yes</td>
</tr>
<tr>
<td>At or above 2380</td>
<td>yes</td>
</tr>
<tr>
<td>Vacant land min 1 ac</td>
<td>barely</td>
</tr>
<tr>
<td>Relatively flat</td>
<td>yes</td>
</tr>
<tr>
<td>City owned</td>
<td>no</td>
</tr>
<tr>
<td>Distant from nearby homes</td>
<td>no</td>
</tr>
<tr>
<td>Other: tank would be large impact to this small area, no guarantee it could be acquired, very close to adjacent homes</td>
<td></td>
</tr>
</tbody>
</table>
Criteria | Met
--- | ---
Close to existing t-main | yes
Nr center of pressure zone | yes
At or above 2380 | yes
Vacant land min 1 ac | yes
Relatively flat | no
City owned | no
Distant from nearby homes | no
Other: steeply sloped small property would result in high construction costs, substantial rock removal, this property likely is best used as commercial, no guarantee it could be acquired
<table>
<thead>
<tr>
<th>Criteria</th>
<th>Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Close to existing t-main</td>
<td>yes</td>
</tr>
<tr>
<td>Nr center of pressure zone</td>
<td>yes</td>
</tr>
<tr>
<td>At or above 2380</td>
<td>yes</td>
</tr>
<tr>
<td>Vacant land min 1 ac</td>
<td>barely</td>
</tr>
<tr>
<td>Relatively flat</td>
<td>no</td>
</tr>
<tr>
<td>City owned</td>
<td>yes</td>
</tr>
<tr>
<td>Distant from nearby homes</td>
<td>no</td>
</tr>
</tbody>
</table>

Other: steeply sloped small parcel would result in high construction costs, substantial rock removal, most highly visible alternative, very close to adjacent homes.
<table>
<thead>
<tr>
<th>Criteria</th>
<th>Met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Close to existing t-main</td>
<td>yes</td>
</tr>
<tr>
<td>Nr center of pressure zone</td>
<td>yes</td>
</tr>
<tr>
<td>At or above 2380</td>
<td>yes</td>
</tr>
<tr>
<td>Vacant land min 1 ac</td>
<td>no</td>
</tr>
<tr>
<td>Relatively flat</td>
<td>no</td>
</tr>
<tr>
<td>City owned</td>
<td>yes</td>
</tr>
<tr>
<td>Distant from nearby homes</td>
<td>no</td>
</tr>
<tr>
<td>Other: due to small area, questionable</td>
<td></td>
</tr>
<tr>
<td>construction feasibility, very close to</td>
<td></td>
</tr>
<tr>
<td>adjacent homes</td>
<td></td>
</tr>
</tbody>
</table>
Criteria | Met
--- | ---
Close to existing t-main | yes
Nr center of pressure zone | yes
At or above 2380 | yes
Vacant land min 1 ac | yes
Relatively flat | yes
City owned | no
Distant from nearby homes | yes
Other: school district not supportive of this idea |
LOCATION SELECTION

ADDITIONAL SITES CONSIDERED OUTSIDE DESIRED AREA

Ferris HS
- Relatively flat
- Far from t-main – 3,500 add’l feet
- 30’ lower results in 130’ tank height
- Minimal available land, not city owned
- Not near center of zone
- Adds at least 50% to project cost
LOCATION SELECTION

ADDITIONAL SITES CONSIDERED OUTSIDE DESIRED AREA

**Hazel’s Creek**
- City owned, relatively flat, plenty of area
- Far from t-main – 4,000 add’l feet
- 50’ lower results in 150’ tank height
- Not near center of zone
- Adds at least 50% to project cost
LOCATION SELECTION

ADDITIONAL SITES CONSIDERED OUTSIDE DESIRED AREA

South Complex/KXLY
• City owned, relatively flat, plenty of area
• Far from t-main – 5,000 add’l feet
• 40’ lower results in 140’ tank height
• Not near center of zone
• Adds at least 50% to project cost
LOCATION SELECTION

ADDITIONAL SITES CONSIDERED OUTSIDE DESIRED AREA

Thornton Murhpy Park
- City owned, relatively flat, plenty of area, on t-main route
- 100’ lower results in 200’ tank height
- Not feasible
LOCATION SELECTION

ADDITIONAL SITES CONSIDERED
OUTSIDE DESIRED AREA

Lincoln Park
- City owned, relatively flat, plenty of area, roughly same elevation as Hamblen Park
- Far from t-main – 4,000 add’l feet
- Adds at least 50% to project cost
Criteria | Met
--- | ---
Close to existing t-main | yes
Nr center of pressure zone | yes
At or above 2380 | yes
Vacant land min 1 ac | yes
Relatively flat | yes
City owned | yes
Distant from nearby homes | yes
Other: only site to meet all criteria |