Table 1: Subwatershed Classification for Risk of Impairment, Middle Gila Watershed.

Arizona’s Integrated 305(b) Assessment and 303(d) Listing Report (ADEQ, 2007) includes water quality data and assessments of water quality in several surface waterbodies across the Middle Gila Watershed. This table summarizes the surface waterbody data used to assess the risk of impairment for each 10-digit HUC subwatershed; some HUCs may have more than one surface waterbody assessed within the watershed, some have none. Some surface water bodies are present in more than one 10-digit HUC. The table includes the ADEQ water quality data (sampling and assessment status) and the NEMO risk classification assigned to individual surface waterbodies within each subwatershed. It also includes the NEMO risk classification for each subwatershed, which is determined by the highest risk level of the surface waterbodies within that subwatershed.

The four levels of NEMO risk classification are defined in Section 6: extreme; high; moderate; and low. This table is organized to determine the relative risk of nonpoint source water quality degradation due to metals, sediment, organics and selenium for each 10-digit HUC subwatershed based on existing ADEQ water quality data. See the footnotes at the end of the table for more information and definitions of abbreviations, and Section 6 for the NEMO ranking values assigned to each risk classification.

<table>
<thead>
<tr>
<th>Subwatershed</th>
<th>Water Quality Data: Sampling and Assessment Status&lt;sup&gt;1-2,3&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dripping Springs Wash – Middle Gila River</td>
<td></td>
</tr>
<tr>
<td>HUC 15050100001</td>
<td></td>
</tr>
<tr>
<td>Combined Classification for Risk of Impairment:</td>
<td></td>
</tr>
<tr>
<td>• Metals: Moderate</td>
<td></td>
</tr>
<tr>
<td>• Sediment: Extreme</td>
<td></td>
</tr>
<tr>
<td>• Organics: Moderate</td>
<td></td>
</tr>
<tr>
<td>• Selenium: Moderate</td>
<td></td>
</tr>
<tr>
<td>Surface Waterbody</td>
<td></td>
</tr>
<tr>
<td>Gila River</td>
<td></td>
</tr>
<tr>
<td>From San Pedro River to Mineral Creek</td>
<td></td>
</tr>
<tr>
<td>ADEQ ID: 15050100-008</td>
<td></td>
</tr>
<tr>
<td>One sampling site at this surface waterbody.</td>
<td></td>
</tr>
<tr>
<td>Sampling</td>
<td></td>
</tr>
<tr>
<td>• Metals: (d&amp;t 12-13): Antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, zinc; fluoride (13).</td>
<td></td>
</tr>
<tr>
<td>• Sediment: total dissolved solids (13), suspended sediment concentration (13), turbidity (12).</td>
<td></td>
</tr>
<tr>
<td>• Organics: Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen and pH (12-13); E. coli (13).</td>
<td></td>
</tr>
<tr>
<td>• Selenium: selenium.</td>
<td></td>
</tr>
</tbody>
</table>
Status
Parameters exceeding standards: E. coli, lead, suspended sediment concentration, selenium.
Currently assessed as Category 5, “Impaired” due to suspended sediment exceedances.
Surface Waterbody risk classification:
- **Metals**: Moderate due to some exceedances.
- **Sediment**: Extreme due to suspended sediment exceedances.
- **Organics**: Moderate due to some exceedances and insufficient data.
- **Selenium**: Moderate due to some exceedances and insufficient data.

**Sampling**
- **Metals**: (d&t 4): Antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (t4) boron, lead, manganese, mercury, nickel; fluoride (4).
- **Sediment**: total dissolved solids (4), suspended sediment (4), turbidity (4).
- **Organics**: Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (4); E. coli (4).
- **Selenium**: none.

Subwatershed
**Mineral Creek – Middle Gila River**
HUC 1505010002

Combined Classification for Risk of Impairment:
- **Metals**: Extreme
- **Sediment**: Extreme
- **Organics**: Moderate
- **Selenium**: Extreme

**Surface Waterbody**
**Water Quality Data:**
**Sampling and Assessment Status**

---

---
### Gila River
From San Pedro River to Mineral Creek
ADEQ ID: 15050100-008

<table>
<thead>
<tr>
<th>Sampling</th>
<th>Status</th>
</tr>
</thead>
</table>
| **Metals:** (d&t 12-13): Antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, zinc; fluoride (13).  
**Sediment:** total dissolved solids (13), suspended sediment concentration (13), turbidity (12).  
**Organics:** Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen and pH (12-13); *E. coli* (13).  
**Selenium:** selenium. | Parameters exceeding standards: *E. coli*, lead, suspended sediment concentration, selenium.  
Currently assessed as Category 5, “Impaired” due to suspended sediment exceedances.  
Surface Waterbody risk classification:  
**Metals:** Moderate due to some exceedances.  
**Sediment:** Extreme due to suspended sediment exceedances.  
**Organics:** Moderate due to some exceedances and insufficient data.  
**Selenium:** Moderate due to some exceedances and insufficient data. |

<table>
<thead>
<tr>
<th>Sampling</th>
<th>Status</th>
</tr>
</thead>
</table>
| **Metals:** (d&t 4): Antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (t4) boron, lead, manganese, mercury, nickel; fluoride (4).  
**Sediment:** total dissolved solids (4), suspended sediment (4), turbidity (4).  
**Organics:** Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (4); *E. coli* (4).  
**Selenium:** none. | Parameters exceeding standards: none.  
Currently assessed as Category 1, “Attaining”.  
Surface Waterbody risk classification:  
**Metals:** Low.  
**Sediment:** Low.  
**Organics:** Low.  
**Selenium:** Moderate due to detection limits not low enough. |
| Mineral Creek from Devil’s Canyon to Gila River | Sampling | • **Metals:** (d&t 217-218): Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, zinc; fluoride (217).  
• **Sediment:** total dissolved solids (217), turbidity (217).  
• **Organics:** dissolved oxygen, pH, nitrite/nitrate, (218).  
• **Selenium:** selenium.  

| Status | Parameters exceeding standards: dissolved copper, dissolved oxygen, selenium.  
Currently assessed as Category 5 (selenium, low dissolved oxygen), Category 4B (copper), “Impaired”.  
Surface Waterbody risk classification:  
• **Metals:** Extreme due to exceedances and detection limits not low enough.  
• **Sediment:** Moderate due to insufficient data.  
• **Organics:** Moderate, low DO due to hydromodification.  
• **Selenium:** Extreme due to exceedances.  

| Kearny Lake | Sampling | • **Metals:** (t 3-9): arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, nickel, silver, zinc; fluoride (5).  
• **Sediment:** total dissolved solids (9).  
• **Organics:** Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (4-9).  
• **Selenium:** none.  

| Status | Parameters exceeding standards: none.  
Currently assessed as Category 3, “Inconclusive”.  
Surface Waterbody risk classification:  
• **Metals:** Moderate due to detection limits not low enough and insufficient data.  
• **Sediment:** Low.  
• **Organics:** Low.  
• **Selenium:** Moderate due to detection limits not low enough and insufficient data.  

| Middle Gila Watershed | Appendix A: Table 1 |
**Subwatershed**

**Box O Wash – Middle Gila River**  
**HUC 1505010003**

**Combined Classification for Risk of Impairment:**
- **Metals:** High  
- **Sediment:** Low  
- **Organics:** Moderate  
- **Selenium:** Moderate

---

**Surface Waterbody**

<table>
<thead>
<tr>
<th>Martinez Canyon</th>
<th>Water Quality Data: Sampling and Assessment Status¹,²,³</th>
</tr>
</thead>
</table>
| from headwaters to Box Canyon | Sampling
| ADEQ ID: 15050100-080 |  
| One sampling site at this surface waterbody. |  

**Status**  
Parameters exceeding standards: lead, dissolved oxygen (due to natural conditions of low flow and ground water upwelling).

Currently assessed as Category 2, “Attaining some uses”.

**Surface Waterbody risk classification:**  
- **Metals:** High due to some exceedances and insufficient data.  
- **Sediment:** Low.  
- **Organics:** Moderate due to some exceedances.  
- **Selenium:** Moderate due to detection limits not low enough.

---

**Subwatershed**

**Upper Queen Creek**  
**HUC 1505010004**

**Combined Classification for Risk of Impairment:**
- **Metals:** Extreme  
- **Sediment:** Moderate  
- **Organics:** Moderate  
- **Selenium:** Moderate

---

<table>
<thead>
<tr>
<th>Surface Waterbody</th>
<th>Water Quality Data: Sampling and Assessment Status¹,²,³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle Gila Watershed A-5</td>
<td></td>
</tr>
<tr>
<td>Appendix A: Table 1</td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td>Sampling</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Arnett Creek from headwaters to Queen Creek ADEQ ID: 15050100-1818 | **Metals:** (d&t 4-8): Antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (t4-8 & d 0-2) boron, lead, mercury, silver; fluoride (6); cyanide (1).  
**Sediment:** total dissolved solids (6), turbidity (6).  
**Organics:** Ammonia, total nitrogen, nitrite/nitrate, total phosphorus, total Kjeldahl nitrogen, dissolved oxygen, pH (4-6); *E. coli* (6).  
**Selenium:** none. | Parameters exceeding standards: dissolved oxygen (due to natural conditions of low flow and ground water upwelling).  
Currently assessed as Category 1, “Attaining”.  
Surface Waterbody risk classification:  
**Metals:** Moderate due to detection limits not low enough for mercury.  
**Sediment:** Low.  
**Organics:** None.  
**Selenium:** Moderate due to detection limits not low enough. |
| Potts Canyon from headwaters to Queen Creek ADEQ ID: 15050100-1856 | **Metals:** (d&t 1): cadmium, chromium, copper, mercury, zinc; (t1) arsenic, lead, manganese; fluoride (1).  
**Sediment:** total dissolved solids (1), suspended sediment concentration (1).  
**Organics:** dissolved oxygen, pH (1).  
**Selenium:** None. | Parameters exceeding standards: arsenic, dissolved copper, lead, mercury, suspended sediment concentration.  
Currently assessed as Category 3, “Inconclusive”.  
Surface Waterbody risk classification:  
**Metals:** Moderate due to insufficient data and detection limits not low enough for mercury.  
**Sediment:** Moderate due to insufficient data.  
**Organics:** Moderate due to insufficient data.  
**Selenium:** Moderate due to detection limits not low enough. |
### Queen Creek from headwaters to mining WWTP discharge

**ADEQ ID:** 15050100-014A

Eight sampling sites at this surface waterbody.

| Sampling | **Metals:** (d&t 11-26): Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, silver, thallium, zinc; (t12 & d 4-5): barium, boron, selenium; (t 26 & d 1): manganese; fluoride (13).  
**Sediment:** total dissolved solids (15), suspended sediment (5), turbidity (13).  
**Organics:** dissolved oxygen, pH, nitrite/nitrate (15-25); *E. coli* (7).  
**Selenium:** selenium. |
| Status | Parameters exceeding standards: dissolved copper.  
Currently assessed as Category 5, “Impaired”.  
Surface Waterbody risk classification:  
- **Metals:** Extreme due to copper exceedances.  
- **Sediment:** Low.  
- **Organics:** Low.  
- **Selenium:** Low. |

### Queen Creek from mining WWTP discharge to Potts Canyon

**ADEQ ID:** 15050100-014B

Two sampling sites at this surface waterbody.

| Sampling | **Metals:** (d&t 4-7): Antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (d 0-2 & t 5-7): boron, lead, manganese, mercury; fluoride (6); chlorine (2); selenium (2).  
**Sediment:** total dissolved solids (4), suspended sediment (5), turbidity (4).  
**Organics:** ammonia, total nitrogen, nitrite/nitrate, total phosphorus, dissolved oxygen, pH (4-7); *E. coli* (4).  
**Selenium:** selenium (2). |
| Status | Parameters exceeding standards: dissolved copper, chlorine, dissolved oxygen, selenium.  
Currently assessed as Category 5, “Impaired”.  
Surface Waterbody risk classification:  
- **Metals:** Extreme due to exceedances.  
- **Sediment:** Low.  
- **Organics:** Moderate due to some exceedances and detection limits not low enough.  
- **Selenium:** Moderate due to some exceedances and detection limits not low enough. |

### Queen Creek

**ADEQ ID:** 15050100-014C

One sampling site at this surface waterbody.

| Sampling | **Metals:** (d&t 1): cadmium, chromium, copper, mercury, zinc; (t1): arsenic, lead, manganese; fluoride (1).  
**Sediment:** total dissolved solids (1), suspended sediment concentration (3).  
**Organics:** dissolved oxygen, pH (1).  
**Selenium:** none. |
<table>
<thead>
<tr>
<th>Subwatershed</th>
<th>Status</th>
</tr>
</thead>
</table>
| Upper McClellan Wash         | Parameters exceeding standards: arsenic, dissolved copper, mercury, suspended sediment concentration. Currently assessed as Category 3, “Inconclusive”, due to detection limits not low enough for dissolved mercury and selenium. Surface Waterbody risk classification:  
  • **Metals**: Moderate due to insufficient data.  
  • **Sediment**: Moderate due to insufficient data.  
  • **Organics**: Moderate due to insufficient data.  
  • **Selenium**: Moderate due to insufficient data. |
| Brady Wash-Picacho Reservoir | Subwatershed                                                            |
| HUC 1505010006                | Combined Classification for Risk of Impairment:  
  • **Metals**: Moderate.  
  • **Sediment**: Moderate.  
  • **Organics**: Moderate.  
  • **Selenium**: Moderate. |
| Paisano Wash-Middle Gila River| Subwatershed                                                            |
| HUC 1505010007                | Combined Classification for Risk of Impairment:  
  • **Metals**: Moderate.  
  • **Sediment**: Moderate.  
  • **Organics**: Moderate.  
  • **Selenium**: Moderate. |
### Subwatershed

**Middle Queen Creek**  
**HUC 1505010008**

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate.  
- **Sediment:** Moderate.  
- **Organics:** Moderate.  
- **Selenium:** Moderate.

### Surface Waterbody

<table>
<thead>
<tr>
<th>Queen Creek</th>
<th>Sampling</th>
<th>Status</th>
</tr>
</thead>
</table>
| ADEQ ID: 15050100-014C | • **Metals:** (d&t 1): cadmium, chromium, copper, mercury, zinc; (t1): arsenic, lead, manganese; fluoride (1).  
• **Sediment:** total dissolved solids (1), suspended sediment concentration (3).  
• **Organics:** dissolved oxygen, pH (1).  
• **Selenium:** none. | Parameters exceeding standards: arsenic, dissolved copper, mercury, suspended sediment concentration.  
Currently assessed as Category 3, “Inconclusive”, due to detection limits not low enough for dissolved mercury and selenium.  
Surface Waterbody risk classification:  
- **Metals:** Moderate due to insufficient data.  
- **Sediment:** Moderate due to insufficient data.  
- **Organics:** Moderate due to insufficient data.  
- **Selenium:** Moderate due to insufficient data. |

One sampling site at this surface waterbody.
Subwatershed
Lower Queen Creek
HUC 1505010009
Combined Classification for Risk of Impairment:
• Metals: Moderate.
• Sediment: Moderate.
• Organics: Moderate.
• Selenium: Moderate.

Subwatershed
Lower McClellan Wash-Middle Gila River
HUC 1505010010
Combined Classification for Risk of Impairment:
• Metals: Moderate.
• Sediment: Moderate.
• Organics: Moderate.
• Selenium: Moderate.

Subwatershed
Middle Gila River below Queen Creek
HUC 1505010010
Combined Classification for Risk of Impairment:
• Metals: Moderate.
• Sediment: Moderate.
• Organics: Moderate.
• Selenium: Moderate.

Subwatershed
Indian Bend Wash
HUC 1506010602
Combined Classification for Risk of Impairment:
• Metals: High
• Sediment: Moderate
• Organics: Extreme
• Selenium: Moderate

Surface Waterbody | Water Quality Data: Sampling and Assessment Status\textsuperscript{1,2,3}
---|---
Indian Bend Wash from headwaters to Salt River | Sampling
ADEQ ID: 15060106B-179
One sampling site at this surface waterbody. | • Metals: (t 4): cadmium, copper, lead, mercury, zinc.
• Organics: Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (4).
• Selenium: none.
| Surface Waterbody | Status | Parameters exceeding standards: lead. Currently assessed as Category 3, “Inconclusive” due to insufficient core parameters and sampling events, and detection limits not low enough for selenium. Surface Waterbody risk classification:  
- **Metals:** Moderate due to some exceedances and insufficient data.  
- **Sediment:** Moderate due to insufficient data.  
- **Organics:** Low.  
- **Selenium:** Moderate due to insufficient data. |
| --- | --- | --- |
| Salt River From Granite Reef Dam for 2 kilometers | Sampling | • **Metals:** (t 3-4): arsenic, barium, cadmium, chromium, copper, lead, manganese, selenium, zinc.  
- **Sediment:** total dissolved solids (6), turbidity (2).  
- **Organics:** ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (5-7).  
- **Selenium:** selenium. |
| ADEQ ID: 15060106B-001A | | One sampling site at this surface waterbody. |
| | Status | Parameters exceeding standards: chromium, lead. Currently assessed as Category 2, “Attaining some uses”. Surface Waterbody risk classification:  
- **Metals:** High due to limited data and some exceedances.  
- **Sediment:** Low.  
- **Organics:** Moderate due to insufficient data.  
- **Selenium:** Low. |
| Salt River from 2 kilometers below Granite Reef Dam to Interstate 10 bridge | Sampling | • **Metals:** (t 2): antimony, arsenic, beryllium, cadmium, chromium, copper, lead, zinc; (t2): boron, manganese, selenium.  
- **Sediment:** total dissolved solids (2), turbidity (2).  
- **Organics:** ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (2); E. coli (2).  
- **Selenium:** selenium. |
<table>
<thead>
<tr>
<th>ADEQ ID: 15060106B-001B</th>
<th></th>
<th>One sampling site at this surface waterbody.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Currently assessed as Category 3, “Inconclusive”.</td>
<td>Currently assessed as Category 5, “Impaired” due to E. coli bacteria and low dissolved oxygen.</td>
</tr>
<tr>
<td></td>
<td>Surface Waterbody risk classification:</td>
<td>Surface Waterbody risk classification:</td>
</tr>
<tr>
<td></td>
<td>• <strong>Metals</strong>: Moderate due to insufficient data.</td>
<td>• <strong>Metals</strong>: Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Sediment</strong>: Moderate due to insufficient data.</td>
<td>• <strong>Sediment</strong>: Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Organics</strong>: Moderate due to insufficient data.</td>
<td>• <strong>Organics</strong>: Extreme due to exceedances.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Selenium</strong>: Moderate due to insufficient data.</td>
<td>• <strong>Selenium</strong>: Moderate due to insufficient data.</td>
</tr>
<tr>
<td>Chaparral Park Lake</td>
<td><strong>Sampling</strong></td>
<td><strong>Sampling</strong></td>
</tr>
<tr>
<td>ADEQ ID: 15060106B-0300</td>
<td>• <strong>Metals</strong>: (d3 &amp; t2): barium, cadmium, chromium, copper, lead, manganese, mercury, zinc; (t2 &amp; do-2): antimony, arsenic, beryllium, boron, selenium, silver; fluoride (2).</td>
<td>• <strong>Metals</strong>: (d o-1 &amp; t 72): antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, zinc; fluoride (6).</td>
</tr>
<tr>
<td>Two sampling sites at this</td>
<td></td>
<td></td>
</tr>
<tr>
<td>surface waterbody.</td>
<td></td>
<td>• <strong>Sediment</strong>: total dissolved solids (5), turbidity (1).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• <strong>Organics</strong>: Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (7).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tempe Town Lake</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADEQ ID: 15060106B-1588</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Six sampling sites at this</td>
<td></td>
<td></td>
</tr>
<tr>
<td>surface waterbody.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Sampling</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• <strong>Metals</strong>: (d o-1 &amp; t 72): antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, zinc; fluoride (6).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• <strong>Sediment</strong>: total dissolved solids (11), turbidity (1317).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• <strong>Organics</strong>: ammonia, total nitrogen, nitrite/nitrate, total phosphorus, total Kjeldahl nitrogen; dissolved oxygen (280); pH (1332); E. coli (352).</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• <strong>Selenium</strong>: selenium.</td>
<td></td>
</tr>
</tbody>
</table>
Status

Parameters exceeding standards: low numbers of exceedances for *E. coli*, dissolved oxygen, pH (high), mercury.

Currently assessed as Category 2, “Attaining some uses”.

Surface Waterbody risk classification:
- **Metals:** Moderate due to detection limits not low enough for dissolved mercury.
- **Sediment:** Low.
- **Organics:** Moderate due to some exceedances for *E. coli*.
- **Selenium:** Low.

### Subwatershed

**Lower Salt River below Saguaro Lake**

HUC 1506010603B

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Moderate
- **Selenium:** Moderate

### Surface Waterbody

| Surface Waterbody | Water Quality Data: Sampling and Assessment Status
|-------------------|-------------------------------------------------|
| Salt River        | **Sampling**
| from 2 kilometers below Granite Reef Dam to Interstate 10 bridge | Parameters exceeding standards: none.
| ADEQ ID: 15060106B-001B | Currently assessed as Category 3, “Inconclusive”.
| One sampling site at this surface waterbody. | Surface Waterbody risk classification:
- **Metals:** Moderate due to insufficient data.
- **Sediment:** Moderate due to insufficient data.
- **Organics:** Moderate due to insufficient data.
- **Selenium:** Moderate due to insufficient data.

| Salt River        | **Sampling**
| from Interstate 10 bridge to 23\(^{rd}\) Avenue WWTP discharge | Parameters exceeding standards: none.
| ADEQ ID: 15060106B-001C | Currently assessed as Category 3, “Inconclusive”.
| One sampling site at this surface | Surface Waterbody risk classification:
- **Metals:** Moderate due to insufficient data.
- **Sediment:** Moderate due to insufficient data.
- **Organics:** Moderate due to insufficient data.
- **Selenium:** Moderate due to insufficient data.

1, 2, 3 sampling locations.
| Waterbody | Status | Parameters exceeding standards: none.  
|-----------|--------| Currently assessed as Category 3, “Inconclusive”.  
|           |        | Surface Waterbody risk classification:  
|           |        | • **Metals**: Moderate due to insufficient data.  
|           |        | • **Sediment**: Moderate due to insufficient data.  
|           |        | • **Organics**: Moderate due to insufficient data.  
|           |        | • **Selenium**: Moderate due to insufficient data.  
| Salt River from 23rd Avenue WWTP discharge to Gila River | Sampling | • **Metals**: (d& t 48): Antimony, arsenic, beryllium, cadmium, chromium, copper, mercury, zinc; (t4): boron, lead, manganese; fluoride (4); chlorine (3).  
|           |        | • **Sediment**: total dissolved solids (4), turbidity (4).  
|           |        | • **Organics**: Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (4); **E. coli** (4).  
|           |        | • **Selenium**: none.  
| Alvord Lake | Status | Parameters exceeding standards: none.  
| ADEQ ID: 15060106B-0050 |        | Currently assessed as Category 2, “Attaining some uses”.  
|           |        | EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.  
|           |        | Surface Waterbody risk classification:  
|           |        | • **Metals**: Low.  
|           |        | • **Sediment**: Low.  
|           |        | • **Organics**: Low.  
|           |        | • **Selenium**: Moderate due to insufficient data and detection limits not low enough.  
<p>| Middle Gila Watershed | A-14 | Appendix A: Table 1 |</p>
<table>
<thead>
<tr>
<th>Site</th>
<th>Status</th>
<th>Parameters exceeding standards:</th>
<th>Sampling</th>
<th>Surface Waterbody risk classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encanto Park Lake</td>
<td>Status</td>
<td>Ammonia</td>
<td>Parameters exceeding standards: Ammonia Currently assessed as Category 5, “Impaired” due to exceedances.</td>
<td>Surface Waterbody risk classification:</td>
</tr>
</tbody>
</table>
| ADEQ ID: 15060106B-0510      |                                                                                                 |                                |                                                                                              | • **Metals:** Moderate due to detection limits not low enough for mercury.  
|                              |                                                                                                 |                                |                                                                                              | • **Sediment:** Low.  
|                              | Sampling                                                                                        |                                |                                                                                              | • **Organics:** Extreme due to exceedances.  
|                              |                                                                                                 |                                |                                                                                              | • **Selenium:** Low.  
| Papago Park Ponds            | Status                                                                                          | none.                           | Parameters exceeding standards: none.                                                                                                     | Surface Waterbody risk classification: |
| ADEQ ID: 15060106B-1030      |                                                                                                 |                                |                                                                                              | • **Metals:** Moderate due to insufficient data and detection limits not low enough for dissolved mercury.  
|                              |                                                                                                 |                                |                                                                                              | • **Sediment:** Moderate due to insufficient data.  
|                              |                                                                                                 |                                |                                                                                              | • **Organics:** Moderate due to detection limits not low enough.  
|                              | Sampling                                                                                        |                                |                                                                                              | • **Selenium:** Moderate due to detection limits not low enough.  
|                              |                                                                                                 |                                |                                                                                              | • **Selenium:** Moderate due to detection limits not low enough.  

Middle Gila Watershed  
Appendix A: Table 1
### Status
- Parameters exceeding standards: none.
- Currently assessed as Category 3, “Inconclusive”.

### Surface Waterbody risk classification:
- **Metals**: Moderate due to insufficient data and detection limits not low enough for dissolved mercury.
- **Sediment**: Moderate due to insufficient data.
- **Organics**: Moderate due to insufficient data.
- **Selenium**: Moderate due to insufficient data.

### Tempe Town Lake
- **ADEQ ID**: 15060106B-1588
- **Six sampling sites at this surface waterbody.**

### Sampling
- **Metals**: (d 0-1 & t 72): antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, zinc; fluoride (6).
- **Sediment**: total dissolved solids (11), turbidity (1317).
- **Organics**: ammonia, total nitrogen, nitrite/nitrate, total phosphorus, total Kjeldahl nitrogen; dissolved oxygen (280); pH (1332); *E. coli* (352).
- **Selenium**: selenium.

### Status
- Parameters exceeding standards: low numbers of exceedances for *E. coli*, dissolved oxygen, pH (high), mercury.
- Currently assessed as Category 2, “Attaining some uses”.

### Surface Waterbody risk classification:
- **Metals**: Moderate due to detection limits not low enough for dissolved mercury.
- **Sediment**: Low.
- **Organics**: Moderate due to some exceedances for *E. coli*.
- **Selenium**: Low.

### Subwatershed
- **Waterman Wash**
- **HUC 1507010101**

#### Combined Classification for Risk of Impairment:
- **Metals**: Extreme
- **Sediment**: Moderate
- **Organics**: High
- **Selenium**: Extreme
# Subwatershed

## Luke Wash – Lower Gila River

**HUC 1507010102**

**Combined Classification for Risk of Impairment:**
- **Metals:** Extreme
- **Sediment:** Moderate
- **Organics:** High
- **Selenium:** Extreme

## Surface Waterbody

### Gila River

- **From Gillespie Dam to Rainbow Wash**
- ADEQ ID: 15070101-007
- Fish consumption advisory due to pesticides in fish tissue.
- DDT, toxaphene, and chlordane were re-listed by EPA in 2002.

<table>
<thead>
<tr>
<th>Water Quality Data: Sampling and Assessment Status$^{1,2,3}$</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sampling</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status</th>
<th>Parameters exceeding standards: no current data.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Currently assessed as Category 3, “Inconclusive” due to lack of data.</td>
</tr>
<tr>
<td>Status</td>
<td>EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.</td>
</tr>
</tbody>
</table>

### Gila River

- **From Centennial Wash to Gillespie Dam**
- ADEQ ID: 15070101-008
- One sampling site at this surface waterbody.

<table>
<thead>
<tr>
<th>Water Quality Data: Sampling and Assessment Status$^{1,2,3}$</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sampling</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
| Status | Parameters exceeding standards: boron, selenium in the water column, *E. coli*.  
Currently assessed as Category 5, “Impaired” due to exceedances.  
EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.  
Surface Waterbody risk classification:  
- **Metals:** Extreme due to exceedances.  
- **Sediment:** Low.  
- **Organics:** High due to one exceedance.  
- **Selenium:** Extreme due to exceedances. |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sampling</td>
<td></td>
</tr>
</tbody>
</table>
**Metals:** no current data.  
**Sediment:** no current data.  
**Organics:** no current data.  
**Selenium:** no current data. |

**Gila River**  
From Hassayampa River to Centennial Wash  
ADEQ ID: 15070101-009  
Fish consumption advisory due to pesticides in fish tissue.  
DDT, toxaphene, and chlordane were re-listed by EPA in 2002.  

| Status | Parameters exceeding standards: no current data.  
Currently assessed as Category 3, “Inconclusive” due to lack of data.  
EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.  
Surface Waterbody risk classification:  
- **Metals:** Moderate due to insufficient data.  
- **Sediment:** Moderate due to insufficient data.  
- **Organics:** Moderate due to insufficient data.  
- **Selenium:** Moderate due to insufficient data. |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sampling</td>
<td></td>
</tr>
</tbody>
</table>
**Metals:** no current data.  
**Sediment:** no current data.  
**Organics:** no current data.  
**Selenium:** no current data. |

**Gila River**  
From Waterman Wash to Hassayampa River  
ADEQ ID: 15070101-010  
Fish consumption advisory due to pesticides in fish tissue.  
DDT, toxaphene, and chlordane were re-listed by EPA in 2002.  

| Status | Parameters exceeding standards: no current data.  
Currently assessed as Category 3, “Inconclusive” due to lack of data.  
EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.  
Surface Waterbody risk classification:  
- **Metals:** Moderate due to insufficient data.  
- **Sediment:** Moderate due to insufficient data.  
- **Organics:** Moderate due to insufficient data.  
- **Selenium:** Moderate due to insufficient data. |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sampling</td>
<td></td>
</tr>
</tbody>
</table>
**Metals:** no current data.  
**Sediment:** no current data.  
**Organics:** no current data.  
**Selenium:** no current data. |
<table>
<thead>
<tr>
<th>River</th>
<th>Sampling</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gila River</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| From Agua Fria River  | • **Metals:** (d&t 2): Antimony, arsenic, beryllium, cadmium, copper, lead, manganese, mercury, zinc; (t2): boron, chromium; fluoride (2).  
                        | • **Sediment:** total dissolved solids (2), turbidity (2).  
                        | • **Organics:** Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (2); *E. coli* (2).  
                        | • **Selenium:** none.                                                   | Parameters exceeding standards: none.                                |
| From Waterman Wash    |                                                                           |                                                                        |
| ADEQ ID: 15070101-014  |                                                                           | Currently assessed as Category 3, “Inconclusive” due to insufficient core parameters and sampling events. |
| One sampling site at  |                                                                           | EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.            |
| this surface waterbody.|                                                                           |                                                                        |
|                        |                                                                           | Surface Waterbody risk classification:                                   |
|                        | • **Metals:** Moderate due to detection limits not low enough.            | • **Metals:** Low.                                                         |
|                        | • **Sediment:** Moderate due to insufficient data.                       | • **Sediment:** Low.                                                      |
|                        | • **Organics:** Moderate due to insufficient data.                      | • **Organics:** Low.                                                      |
|                        | • **Selenium:** Moderate due to detection limits not low enough.        | • **Selenium:** Moderate due to detection limits not low enough.          |
| Gila River            |                                                                           |                                                                        |
| From Salt River to    | • **Metals:** (d&t 4): Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, mercury; zinc; (t4): boron, chloride (2).  
                        | • **Sediment:** total dissolved solids (4), turbidity (4).  
                        | • **Organics:** Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (4); *E. coli* (4).  
                        | • **Selenium:** none.                                                   | Parameters exceeding standards: none.                                |
| Agua Fria River       |                                                                           |                                                                        |
| ADEQ ID: 15070101-015  |                                                                           | Currently assessed as Category 2, “Attaining all uses”.                  |
| One sampling site at  |                                                                           | EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.            |
| this surface waterbody.|                                                                           |                                                                        |
|                       |                                                                           | Surface Waterbody risk classification:                                   |
|                       | • **Metals:** Low.                                                        | • **Metals:** Low.                                                         |
|                       | • **Sediment:** Low.                                                      | • **Sediment:** Low.                                                      |
|                       | • **Organics:** Low.                                                      | • **Organics:** Low.                                                      |
|                       | • **Selenium:** Moderate due to detection limits not low enough.        | • **Selenium:** Moderate due to detection limits not low enough.          |
### Salt River

**From 23rd Avenue WWTP discharge to Gila River**

<table>
<thead>
<tr>
<th>ADEQ ID: 15060106B-001D</th>
</tr>
</thead>
</table>

One sampling site at this surface waterbody.

DDT, toxaphene, and chlordane were re-listed by EPA in 2002.

<table>
<thead>
<tr>
<th>Sampling</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Metals:</strong> (d&amp;t 48): Antimony, arsenic, beryllium, cadmium, chromium, copper, mercury, zinc; (t4): boron, lead, manganese; fluoride (4); chlorine (3).</td>
</tr>
<tr>
<td><strong>Sediment:</strong> total dissolved solids (4), turbidity (4).</td>
</tr>
<tr>
<td><strong>Organics:</strong> Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (4); <em>E. coli</em> (4).</td>
</tr>
<tr>
<td><strong>Selenium:</strong> none.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters exceeding standards: none.</td>
</tr>
<tr>
<td>Currently assessed as Category 2, “Attaining some uses”.</td>
</tr>
<tr>
<td>EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.</td>
</tr>
<tr>
<td>Surface Waterbody risk classification:</td>
</tr>
<tr>
<td><strong>Metals:</strong> Low.</td>
</tr>
<tr>
<td><strong>Sediment:</strong> Low.</td>
</tr>
<tr>
<td><strong>Organics:</strong> Low.</td>
</tr>
<tr>
<td><strong>Selenium:</strong> Moderate due to insufficient data and detection limits not low enough.</td>
</tr>
</tbody>
</table>

### Subwatershed

**Sand Tank Wash**

HUC 1507010103

**Combined Classification for Risk of Impairment:**

- **Metals:** Extreme
- **Sediment:** Moderate
- **Organics:** High
- **Selenium:** Extreme

### Subwatershed

**Rainbow Wash – Lower Gila River**

HUC 1507010104

**Combined Classification for Risk of Impairment:**

- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Moderate
- **Selenium:** Moderate

### Surface Waterbody

**Water Quality Data: Sampling and Assessment Status**

- **Gila River From Rainbow Wash to Sand Tank**
  - ADEQ ID: 15070101-005

<table>
<thead>
<tr>
<th>Sampling</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Metals:</strong> no current data.</td>
</tr>
<tr>
<td><strong>Sediment:</strong> no current data.</td>
</tr>
<tr>
<td><strong>Organics:</strong> no current data.</td>
</tr>
<tr>
<td><strong>Selenium:</strong> no current data.</td>
</tr>
<tr>
<td>Subwatershed</td>
</tr>
<tr>
<td>-------------</td>
</tr>
<tr>
<td>HUC 1507010105</td>
</tr>
</tbody>
</table>

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Moderate
- **Selenium:** Moderate
<table>
<thead>
<tr>
<th>Subwatershed</th>
<th>Surface Waterbody</th>
<th>Water Quality Data: Sampling and Assessment Status¹,²,³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sauceda Wash</td>
<td>Gila River From Sand Tank to Painted Rocks Reservoir</td>
<td>• Metals: no current data.</td>
</tr>
<tr>
<td>HUC 1507010106</td>
<td></td>
<td>• Sediment: no current data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Organics: no current data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Selenium: no current data.</td>
</tr>
<tr>
<td></td>
<td>Fish consumption advisory due to pesticides in fish tissue.</td>
<td>Parameters exceeding standards: no current data.</td>
</tr>
<tr>
<td></td>
<td>DDT, toxaphene, and chlordane were re-listed by EPA in 2002.</td>
<td>Currently assessed as Category 3, “Inconclusive” due to lack of data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Surface Waterbody risk classification:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Metals: Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Sediment: Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Organics: Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Selenium: Moderate due to insufficient data.</td>
</tr>
<tr>
<td>Lower Gila River – Painted Rock Reservoir</td>
<td>Gila River From Rainbow Wash to Sand Tank</td>
<td>• Metals: no current data.</td>
</tr>
<tr>
<td>HUC 1507010107</td>
<td></td>
<td>• Sediment: no current data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Organics: no current data.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Selenium: no current data.</td>
</tr>
<tr>
<td></td>
<td>ADEQ ID: 15070101-001</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹²³ Refers to specific sampling and assessment status.
Fish consumption advisory due to pesticides in fish tissue. DDT, toxaphene, and chlordane were re-listed by EPA in 2002.

<table>
<thead>
<tr>
<th>Status</th>
<th>Parameters exceeding standards: no current data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Currently assessed as Category 3, “Inconclusive” due to lack of data.</td>
</tr>
<tr>
<td></td>
<td>EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.</td>
</tr>
<tr>
<td></td>
<td>Surface Waterbody risk classification:</td>
</tr>
<tr>
<td></td>
<td>• Metals: Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td>• Sediment: Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td>• Organics: Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td>• Selenium: Moderate due to insufficient data.</td>
</tr>
</tbody>
</table>

Painted Rocks Reservoir
ADEQ ID: 15070101-1020A
This is a flood retention basin.

<table>
<thead>
<tr>
<th>Sampling</th>
<th>• Metals: no current data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Sediment: no current data.</td>
</tr>
<tr>
<td></td>
<td>• Organics: no current data.</td>
</tr>
<tr>
<td></td>
<td>• Selenium: no current data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status</th>
<th>Parameters exceeding standards: no current data.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Currently assessed as Category 3, “Inconclusive” due to lack of data.</td>
</tr>
<tr>
<td></td>
<td>EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.</td>
</tr>
<tr>
<td></td>
<td>Surface Waterbody risk classification:</td>
</tr>
<tr>
<td></td>
<td>• Metals: Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td>• Sediment: Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td>• Organics: Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td>• Selenium: Moderate due to insufficient data.</td>
</tr>
</tbody>
</table>

Subwatershed

Ash Creek and Sycamore Creek
HUC 1507010201

Combined Classification for Risk of Impairment:
• Metals: Moderate
• Sediment: Moderate
• Organics: Moderate
• Selenium: Moderate

<table>
<thead>
<tr>
<th>Water Quality Data:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sampling and Assessment Status</td>
</tr>
</tbody>
</table>

Middle Gila Watershed A-23 Appendix A: Table 1
<table>
<thead>
<tr>
<th>Little Ash Creek</th>
</tr>
</thead>
<tbody>
<tr>
<td>From headwaters to Ash Creek</td>
</tr>
<tr>
<td>ADEQ ID: 15070102-039</td>
</tr>
<tr>
<td>One sampling site at this surface waterbody.</td>
</tr>
</tbody>
</table>

**Sampling**
- **Metals**: (d&t 1): antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (t1): boron, lead, manganese, mercury; fluoride (1).
- **Sediment**: total dissolved solids (1), turbidity (1).
- **Organics**: Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (1), *E. coli* (1).
- **Selenium**: none.

**Status**
- Parameters exceeding standards: none.

Currently assessed as Category 3, “Inconclusive” due to insufficient core parameters and sampling events.

Surface Waterbody risk classification:
- **Metals**: Moderate due to insufficient data.
- **Sediment**: Moderate due to insufficient data.
- **Organics**: Moderate due to insufficient data.
- **Selenium**: Moderate due to detection limits not low enough and insufficient data.

<table>
<thead>
<tr>
<th>Sycamore Creek</th>
</tr>
</thead>
<tbody>
<tr>
<td>From Tank Canyon to Agua Fria River</td>
</tr>
<tr>
<td>ADEQ ID: 15070102-024B</td>
</tr>
<tr>
<td>One sampling site at this surface waterbody.</td>
</tr>
</tbody>
</table>

**Sampling**
- **Metals**: (d&t 4): antimony, arsenic, beryllium, cadmium, copper, zinc; (d 0-2 & t 4): boron, chromium, lead, manganese, mercury; fluoride (4).
- **Sediment**: total dissolved solids (4), turbidity (4).
- **Organics**: ammonia, total nitrogen, total phosphorus, total Kjeldahl nitrogen, dissolved oxygen, pH (4); *E. coli* (3).
- **Selenium**: none.

**Status**
- Parameters exceeding standards: none.

Currently assessed as Category 1 “Attaining”.

Surface Waterbody risk classification:
- **Metals**: Low.
- **Sediment**: Low.
- **Organics**: Low.
- **Selenium**: Moderate due to detection limits not low enough.
### Subwatershed

**Big Bug Creek – Agua Fria River**  
**HUC 1507010202**

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Moderate
- **Selenium:** Moderate

<table>
<thead>
<tr>
<th>Surface Waterbody</th>
<th>Water Quality Data: Sampling and Assessment Status[^{1,2,3}]</th>
</tr>
</thead>
</table>
| **Agua Fria River**  
**From Sycamore Creek to Big Bug Creek**  
**ADEVQ ID: 15070102-023**  
One sampling site at this surface waterbody. | **Sampling**  
- **Metals:** (d&t 4): Antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (4t) boron, lead, manganese, mercury; fluoride (4).  
- **Sediment:** total dissolved solids (4), turbidity (4).  
- **Organics:** Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (4); *E. coli* (3).  
- **Selenium:** none  
**Status**  
Parameters exceeding standards: none.  
Currently assessed as Category 1, “Attaining”.  
Surface Waterbody risk classification:  
- **Metals:** Low.  
- **Sediment:** Low.  
- **Organics:** Low.  
- **Selenium:** Moderate due to detection limits not low enough. |

| **Agua Fria River**  
**From State Route 169 to Yarber Wash**  
**ADEVQ ID: 15070102-031B**  
One sampling site at this surface waterbody. | **Sampling**  
- **Metals:** (d&t 4): Antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (4t & 0-1d) boron, lead, manganese, mercury; fluoride (4).  
- **Sediment:** total dissolved solids (4), suspended sediment (4), turbidity (4).  
- **Organics:** Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (4); *E. coli* (4).  
  - **Selenium:** none |
### Blue John Wash
From headwaters to unnamed tributary of Lynx Creek
ADEQ ID: 15070102-471
One sampling site at this surface waterbody.

#### Status
Parameters exceeding standards: none.
Currently assessed as Category 1, “Attaining”.

Surface Waterbody risk classification:
- **Metals:** Moderate due to detection limits not low enough for mercury.
- **Sediment:** Low.
- **Organics:** Low.
- **Selenium:** Moderate due to detection limits not low enough.

#### Sampling
- **Metals:** (1d): antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, silver, thallium, zinc; (2t & 0-2d); fluoride (1)
- **Sediment:** total dissolved solids (1).
- **Organics:** none.
- **Selenium:** none.

### Sycamore Creek
From Tank Canyon to Agua Fria River
ADEQ ID: 15070102-024B
One sampling site at this surface waterbody.

#### Status
Parameters exceeding standards: zinc (dissolved).
Currently assessed as Category 3, “Inconclusive” due to zinc exceedances, insufficient core parameters and sampling events.

Surface Waterbody risk classification:
- **Metals:** Moderate due to insufficient data and detection limits not low enough.
- **Sediment:** Moderate due to insufficient data.
- **Organics:** Moderate due to insufficient data.
- **Selenium:** Moderate due to detection limits not low enough.

#### Sampling
- **Metals:** (d&t 4): antimony, arsenic, beryllium, cadmium, copper, zinc; (d 0-2 & t 4): boron, chromium, lead, manganese, mercury; fluoride (4).
- **Sediment:** total dissolved solids (4), turbidity (4).
- **Organics:** ammonia, total nitrogen, total phosphorus, total Kjeldahl nitrogen, dissolved oxygen, pH (4); *E. coli* (3).
- **Selenium:** none.
| Status | Parameters exceeding standards: none. Currently assessed as Category 1 “Attaining”. Surface Waterbody risk classification:  
  - **Metals**: Low.  
  - **Sediment**: Low.  
  - **Organics**: Low.  
  - **Selenium**: Moderate due to detection limits not low enough. |
|---|---|
| **Unnamed tributary to Lynx Creek**  
From headwaters to Lynx Creek  
ADEQ ID: 15070102-124  
Six sampling sites at this surface waterbody. | **Sampling** |  
  - **Metals**: (d6): antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, silver, thallium, zinc; fluoride (6).  
  - **Sediment**: total dissolved solids (6).  
  - **Organics**: none.  
  - **Selenium**: none. |
| Status | Parameters exceeding standards: cadmium, copper, zinc. Currently assessed as Category 3, “Inconclusive”. Surface Waterbody risk classification:  
  - **Metals**: Moderate due to insufficient data and detection limits not low enough.  
  - **Sediment**: Moderate due to insufficient data.  
  - **Organics**: Moderate due to insufficient data.  
  - **Selenium**: Moderate due to insufficient data and detection limits not low enough. |
| **Fain Lake**  
ADEQ ID: 15070102-0005  
One sampling site at this surface waterbody. | **Sampling** |  
  - **Metals**: (d& t 2): Antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, zinc; fluoride (2).  
  - **Sediment**: total dissolved solids (3), turbidity (2).  
  - **Organics**: Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (2-3); *E. coli* (3).  
  - **Selenium**: selenium. |
| Subwatershed          | Status                                                                 | Parameters exceeding standards: dissolved oxygen.
|----------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------
| Black Canyon Creek   | Parameters exceeding standards: lead, manganese.                        | Currently assessed as Category 2, “Attaining some uses”.                           
| HUC 1507010203       |                                                                         | Surface Waterbody risk classification:                                          
| Combined Classification for Risk of Impairment: | **Metals:** Moderate due to insufficient data and detection limits not low enough for dissolved mercury. | **Metals:** Extreme                                                              
|                      | **Sediment:** Low.                                                      | **Sediment:** High                                                               
|                      | **Organics:** Moderate                                                 | **Organics:** Moderate                                                           
|                      | **Selenium:** Moderate                                                  | **Selenium:** Moderate                                                           

| Lynx Lake            | Parameters exceeding standards: lead, manganese.                        | Currently assessed as Category 2, “Attaining some uses”.                           
| ADEQ ID: 15070102-0860 |                                                                         | Surface Waterbody risk classification:                                          
| Four sampling sites at this surface waterbody. | **Metals:** Moderate due to insufficient data.                           | **Metals:** Moderate due to insufficient data.                                   
|                      | **Sediment:** Low.                                                      | **Sediment:** Low.                                                              
|                      | **Organics:** Moderate                                                 | **Organics:** Moderate                                                           
|                      | **Selenium:** Moderate                                                  | **Selenium:** Moderate                                                           

| Surface Waterbody    | **Water Quality Data:**                                                 | **Sampling and Assessment Status**                                             
|----------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------

Middle Gila Watershed A-28 Appendix A: Table 1
<table>
<thead>
<tr>
<th>Location</th>
<th>Sampling</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turkey Creek From headwaters to unnamed tributary at 341928/1122128 ADEQ ID: 15070102-036A Five sampling sites at this surface waterbody.</td>
<td><strong>Metals:</strong> (d&amp;t 3-9): arsenic, beryllium, cadmium, chromium, copper, lead, zinc; (d 0-2 &amp; t 3): boron; (d 0-2 &amp; t 1-2): antimony, manganese, mercury.</td>
<td>Parameters exceeding standards: dissolved oxygen due to low flow and ground water upwelling. Currently assessed as Category 2, “Attaining some uses”. Surface Waterbody risk classification:</td>
</tr>
<tr>
<td>Turkey Creek From unnamed tributary at 341928/1122138 to Poland Creek ADEQ ID: 15070102-036B Ten sampling sites at this surface waterbody. TMDL out for public review and comment. When approved by EPA, Water will be moved to Category 4. Do not list cadmium and zinc.</td>
<td><strong>Metals:</strong> (d&amp;t 17-46): arsenic, boron, cadmium, chromium, copper, lead, manganese, zinc; (t37 &amp; d5): mercury; (t 3-6): beryllium; (d&amp;t 1): antimony; cyanide (9).</td>
<td>Parameters exceeding standards: copper, lead; low number of exceedances: arsenic, cadmium, chromium, dissolved oxygen due to natural conditions of low flow and ground water upwelling, mercury, suspended sediment concentration. Currently assessed as Category 5, “Impaired” due to copper and lead exceedances. Surface Waterbody risk classification:</td>
</tr>
</tbody>
</table>
### Subwatershed

**Bishop Creek**

**HUC 1507010204**

**Combined Classification for Risk of Impairment:**
- **Metals:** Low
- **Sediment:** Low
- **Organics:** Low
- **Selenium:** Moderate

<table>
<thead>
<tr>
<th>Surface Waterbody</th>
<th>Water Quality Data: Sampling and Assessment Status&lt;sup&gt;1,2,3&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agua Fria River</td>
<td>Sampling</td>
</tr>
</tbody>
</table>
| From Sycamore Creek to Big Bug Creek | • **Metals:** (d&t 4): Antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (4t) boron, lead, manganese, mercury; fluoride (4).
  • **Sediment:** total dissolved solids (4), turbidity (4).
  • **Organics:** Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (4); *E. coli* (3).
  • **Selenium:** none |

**Status**

Parameters exceeding standards: none.

Currently assessed as Category 1, “Attaining”.

Surface Waterbody risk classification:
- **Metals:** Low.
- **Sediment:** Low.
- **Organics:** Low.
- **Selenium:** Moderate due to detection limits not low enough.

### Subwatershed

**Agua Fria River – Lake Pleasant**

**HUC 1507010205**

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Extreme
- **Selenium:** Moderate

<table>
<thead>
<tr>
<th>Surface Waterbody</th>
<th>Water Quality Data: Sampling and Assessment Status&lt;sup&gt;1,2,3&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agua Fria River</td>
<td>Sampling</td>
</tr>
</tbody>
</table>

- **Middle Gila Watershed**
- **Appendix A: Table 1**
<table>
<thead>
<tr>
<th>Location</th>
<th>Sampling</th>
<th>Status</th>
</tr>
</thead>
</table>
| Agua Fria River                  | • **Metals:** (d&t 4): Antimony, arsenic, beryllium, boron, cadmium, chromium, copper, zinc; (4t) boron, lead, manganese, mercury; fluoride (4).  
  • **Sediment:** total dissolved solids (4), turbidity (4).  
  • **Organics:** Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (4); *E. coli* (4).  
  • **Selenium:** none  
  • **Metals:** (d 7-10 & t 15-23): antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, zinc; fluoride (31).  
  • **Sediment:** total dissolved solids (9), turbidity (26).  
  • **Organics:** Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (35-45); benzene, ethylbenzene, toluene, xylene (10-15); *E. coli* (3).  
  • **Selenium:** selenium.  
  | Parameters exceeding standards: dissolved oxygen due to low flow and ground water upwelling.  
  Currently assessed as Category 1, “Attaining”.  
  Surface Waterbody risk classification:  
  • **Metals:** Low.  
  • **Sediment:** Low.  
  • **Organics:** Low.  
  • **Selenium:** Moderate due to detection limits not low enough.  
  | Lake Pleasant                    | Six sampling sites at this surface waterbody.                              | Parameters exceeding standards: dissolved oxygen (2 in 15 samples), pH (1 in 15 samples).  
  Currently assessed as Category 1, “Attaining All Uses”.  
  Surface Waterbody risk classification:  
  • **Metals:** Moderate due to detection limits not low enough.  
  • **Sediment:** Low.  
  • **Organics:** Moderate due to some exceedances.  
  • **Selenium:** Moderate due to detection limits not low enough.  
| Middle Gila Watershed            | Appendix A: Table 1                                                        |                                                                                              |
Cortez Park Lake
ADEQ ID: 15060106B-0410
Two sampling sites at this surface waterbody.
High pH and low dissolved oxygen we added to 303(d) list in 2004.

Sampling
- **Metals**: (d&t 2): antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, zinc; fluoride (2).
- **Sediment**: total dissolved solids (2), turbidity (2).
- **Organics**: Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (3); *E. coli* (2).
- **Selenium**: selenium.

Status
Parameters exceeding standards: pH, dissolved oxygen.
Currently assessed as Category 5, “Impaired”.
Surface Waterbody risk classification:
- **Metals**: Moderate due to insufficient data and detection limits not low enough for dissolved mercury.
- **Sediment**: Moderate due to insufficient data.
- **Organics**: Extreme due to exceedances and insufficient data.
- **Selenium**: Moderate due to insufficient data.

### Subwatershed
**Cave Creek – Arizona Canal Diversion Channel**
**HUC 1507010206**
**Combined Classification for Risk of Impairment:**
- **Metals**: Low
- **Sediment**: Low
- **Organics**: Low
- **Selenium**: Moderate

### Surface Waterbody
<table>
<thead>
<tr>
<th><strong>Surface Waterbody</strong></th>
<th><strong>Water Quality Data: Sampling and Assessment Status</strong>&lt;sup&gt;1,2,3&lt;/sup&gt;</th>
</tr>
</thead>
</table>
| Cave Creek from headwaters to Cave Creek Dam | **Sampling**
- **Metals**: (d&t 5-8): antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (t4-8 & do-2): boron, lead, manganese, mercury; fluoride (8).
- **Sediment**: total dissolved solids (8), suspended sediment concentration (1), turbidity (8).
- **Organics**: Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (8); *E. coli* (8).
- **Selenium**: none.

ADEQ ID: 15060106B-026A
Two sampling sites at this surface waterbody.
<table>
<thead>
<tr>
<th>Subwatershed</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skunk Creek</td>
<td>Parameters exceeding standards: lead. Currently assessed as Category 3, “Inconclusive”. Surface Waterbody risk classification: • Metals: Moderate due to insufficient data. • Sediment: Moderate due to insufficient data. • Organics: Moderate due to insufficient data. • Selenium: Moderate due to insufficient data.</td>
</tr>
</tbody>
</table>

## Subwatershed

### Trilby Wash-Trilby Wash Basin

**HUC 1507010207**  
Combined Classification for Risk of Impairment:  
• Metals: Low  
• Sediment: Low  
• Organics: Low  
• Selenium: Moderate due to detection limits not low enough.

### New River

**HUC 1507010208**  
Combined Classification for Risk of Impairment:  
• Metals: Moderate  
• Sediment: Moderate  
• Organics: Moderate  
• Selenium: Moderate

### Surface Waterbody

<table>
<thead>
<tr>
<th>Water Quality Data: Sampling and Assessment Status¹,²,³</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sampling</strong></td>
</tr>
<tr>
<td>• Metals: (t 3): cadmium, copper, lead, mercury, zinc.</td>
</tr>
<tr>
<td>• Sediment: none.</td>
</tr>
<tr>
<td>• Organics: ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (3).</td>
</tr>
<tr>
<td>• Selenium: none.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameters exceeding standards: none. Currently assessed as Category 1, “Attaining”. Surface Waterbody risk classification: • Metals: Low • Sediment: Low. • Organics: Low. • Selenium: Moderate due to detection limits not low enough.</td>
</tr>
</tbody>
</table>

**Subwatershed**
### Agua Fria River below Lake Pleasant

**HUC 1507010209**

**Combined Classification for Risk of Impairment:**
- **Metals:** Low
- **Sediment:** Low
- **Organics:** Low
- **Selenium:** Moderate

### Surface Waterbody: Gila River

From Salt River to Agua Fria River

ADEQ ID: 15070101-015

One sampling site at this surface waterbody.

### Water Quality Data: Sampling and Assessment Status\(^{1,2,3}\)

<table>
<thead>
<tr>
<th>Sampling</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metals: (d&amp;t 4): Antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (t4): boron, lead, manganese, mercury; fluoride (4); chlorine (2).</td>
<td>Parameters exceeding standards: none.</td>
</tr>
<tr>
<td>Sediment: total dissolved solids (4), turbidity (4).</td>
<td>Currently assessed as Category 2, “Attaining all uses”.</td>
</tr>
<tr>
<td>Organics: Ammonia, dissolved oxygen, pH, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen (4); <em>E. coli</em> (4).</td>
<td>EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.</td>
</tr>
<tr>
<td>Selenium: none.</td>
<td>Surface Waterbody risk classification:</td>
</tr>
</tbody>
</table>

- **Metals:** Low.
- **Sediment:** Low.
- **Organics:** Low.
- **Selenium:** Moderate due to detection limits not low enough.

### Subwatershed

**Upper Hassayampa River**

**HUC 1507010301**

**Combined Classification for Risk of Impairment:**
- **Metals:** Extreme
- **Sediment:** Moderate
- **Organics:** Extreme
- **Selenium:** High

### Surface Waterbody

**Water Quality Data: Sampling and Assessment Status\(^{1,2,3}\)**

<table>
<thead>
<tr>
<th>Sampling</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash Mine Creek</td>
<td>Sampling</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------</td>
</tr>
</tbody>
</table>
| From headwaters to Hassayampa River | • **Metals**: (3d & 2t): antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, silver, zinc; (2t & do-2d): barium, boron, manganese, mercury; fluoride (1).  
• **Sediment**: total dissolved solids (4).  
• **Organics**: dissolved oxygen, pH (2).  
• **Selenium**: none. | Parameters exceeding standards: copper (dissolved), pH, lead (dissolved), zinc (dissolved).  
Currently assessed as Category 4A, “Not Attaining” (impaired) due to cadmium, copper and zinc exceedances.  
Surface Waterbody risk classification:  
• **Metals**: Extreme due to exceedances, insufficient data and detection limits not low enough.  
• **Sediment**: Moderate due to insufficient data.  
• **Organics**: Extreme due to exceedances and insufficient data.  
• **Selenium**: Moderate due to detection limits not low enough. |
| ADEQ ID: 15070103-349 | Two sampling sites at this surface waterbody. | The Hassayampa River TMDL includes loadings for cadmium, copper, and zinc from this tributary. |

<table>
<thead>
<tr>
<th>French Gulch</th>
<th>Sampling</th>
<th>Status</th>
</tr>
</thead>
</table>
| From headwaters to Hassayampa River | • **Metals**: (d&t 36-45): cadmium, chromium, copper, zinc; (d4 & 43t): manganese; (d 0-2 & t36-38): arsenic, boron, lead, mercury; (d&t3): beryllium; fluoride (4).  
• **Sediment**: total dissolved solids (4), turbidity (4).  
• **Organics**: dissolved oxygen (19), pH (38).  
• **Selenium**: none. | Parameters exceeding standards: cadmium, copper, zinc, arsenic, dissolved oxygen due to low flow and ground water upwelling, lead.  
Currently assessed as Category 4A, “Not Attaining” (impaired).  
Surface Waterbody risk classification:  
• **Metals**: Extreme due to exceedances.  
• **Sediment**: Moderate due to insufficient data.  
• **Organics**: Moderate due to insufficient data.  
• **Selenium**: Moderate due to detection limits not low enough. |
| ADEQ ID: 15070103-239 | Twelve sampling sites at this surface waterbody. | TMDL completed and approved in 2004 for cadmium, copper and zinc. |

<p>| Middle Gila Watershed | Appendix A: Table 1 |</p>
<table>
<thead>
<tr>
<th>Hassayampa River From Cottonwood Creek to Martinez Wash</th>
<th>Sampling</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADEQ ID: 15070103-004</td>
<td>• <strong>Metals:</strong> (d&amp;t 16-24): antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, zinc; (d&amp;t 8): barium, nickel, silver, thallium; (d 0-1 &amp; t 8-20): boron, manganese; fluoride (21).</td>
</tr>
<tr>
<td></td>
<td>• <strong>Sediment:</strong> total dissolved solids (19), suspended sediment concentration (11), turbidity (21).</td>
</tr>
<tr>
<td></td>
<td>• <strong>Organics:</strong> Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (21-22); <em>E. coli</em> (21).</td>
</tr>
<tr>
<td></td>
<td>• <strong>Selenium:</strong> none.</td>
</tr>
<tr>
<td>One sampling site at this surface waterbody.</td>
<td>Status</td>
</tr>
<tr>
<td></td>
<td>Parameters exceeding standards: <em>E. coli</em> (1 in 3 year period).</td>
</tr>
<tr>
<td></td>
<td>Currently assessed as Category 2, “Attaining Some Uses”.</td>
</tr>
<tr>
<td></td>
<td>Surface Waterbody risk classification:</td>
</tr>
<tr>
<td></td>
<td>• <strong>Metals:</strong> Moderate due to detection limits not low enough.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Sediment:</strong> Low.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Organics:</strong> Moderate due to one exceedance.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Selenium:</strong> Moderate due to detection limits not low enough.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hassayampa River From headwaters to Copper Creek</th>
<th>Sampling</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADEQ ID: 15070103-007A</td>
<td>• <strong>Metals:</strong> (d&amp;t 58-69): cadmium, copper, zinc; (d&amp;t 3-7): antimony, arsenic, barium, beryllium, chromium, manganese, nickel, silver; (d 0-2 &amp; t 1-2): boron, selenium, thallium; (t 6 &amp; d 2): mercury; fluoride (7).</td>
</tr>
<tr>
<td></td>
<td>• <strong>Sediment:</strong> total dissolved solids (7).</td>
</tr>
<tr>
<td></td>
<td>• <strong>Organics:</strong> dissolved oxygen (41), pH (62), total nitrogen (8), total phosphorus (1), nitrite/nitrate (8).</td>
</tr>
<tr>
<td></td>
<td>• <strong>Selenium:</strong> selenium.</td>
</tr>
<tr>
<td>Fifteen sampling sites at this surface waterbody.</td>
<td>Status</td>
</tr>
<tr>
<td></td>
<td>Parameters exceeding standards: cadmium, copper, zinc, pH, lead, selenium.</td>
</tr>
<tr>
<td></td>
<td>Currently assessed as Category 5 (pH), “Impaired”, Category 4A (cadmium, copper, zinc), “Not Attaining”.</td>
</tr>
<tr>
<td></td>
<td>Surface Waterbody risk classification:</td>
</tr>
<tr>
<td></td>
<td>• <strong>Metals:</strong> Extreme due to exceedances.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Sediment:</strong> Moderate due to insufficient data.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Organics:</strong> Low due to acid rock drainage.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Selenium:</strong> Moderate due to detection limits not low enough.</td>
</tr>
<tr>
<td>Add pH. TMDL completed and approved in 2002 for cadmium, copper and zinc.</td>
<td></td>
</tr>
<tr>
<td>Waterbody</td>
<td>Sampling</td>
</tr>
<tr>
<td>-----------</td>
<td>----------</td>
</tr>
</tbody>
</table>
| Hassayampa River From Copper Creek to Blind Indian Creek | • **Metals:** (d&t 8-42): antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, silver, thallium, zinc; (d 0-1 & t 8-20): boron, manganese; fluoride (20).  
  • **Sediment:** total dissolved solids (18), suspended sediment concentration (10), turbidity (18).  
  • **Organics:** Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (20-39).  
  • **Selenium:** none. | Parameters exceeding standards: none in last 3 years of monitoring.  
  Currently assessed as Category 1, “Attaining All Uses”.  
  Surface Waterbody risk classification:  
  • **Metals:** Moderate due to detection limits not low enough.  
  • **Sediment:** Low.  
  • **Organics:** Moderate due to insufficient data.  
  • **Selenium:** Moderate due to detection limits not low enough. |
| Minnehaha Creek From headwaters to Hassayampa Creek | • **Metals:** (d&t 1): antimony, arsenic, barium, beryllium, boron, cadmium, chromium, copper, manganese, mercury, silver, zinc; (t1): lead, nickel.  
  • **Sediment:** total dissolved solids (1).  
  • **Organics:** dissolved oxygen, pH (1).  
  • **Selenium:** none. | Parameters exceeding standards: none.  
  Currently assessed as Category 3, “Inconclusive” due to insufficient core parameters and sampling events, and detection limits not low enough for selenium and dissolved metals.  
  Surface Waterbody risk classification:  
  • **Metals:** Moderate due to detection limits not low enough and insufficient data.  
  • **Sediment:** Moderate due to insufficient data.  
  • **Organics:** Moderate due to insufficient data.  
  • **Selenium:** Moderate due to detection limits not low enough and insufficient data. |
| Unnamed tributary to Cash Mine Creek From headwaters to Cash Mine Creek | Sampling | • **Metals**: (d&t 4-5): antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, manganese, nickel, silver, thallium, zinc; (t&d 1): boron; (1) selenium; fluoride (4).  
• **Sediment**: total dissolved solids (4).  
• **Organics**: dissolved oxygen, pH (2).  
• **Selenium**: selenium (1). |
| --- | --- | --- |
| ADEQ ID: 15070103-415 | Status | Parameters exceeding standards: cadmium, copper, zinc, beryllium, lead, pH, selenium.  
Currently assessed as Category 4A, “Not Attaining” (impaired).  
Surface Waterbody risk classification:  
• **Metals**: Extreme due to exceedances, detection limits not low enough and insufficient data.  
• **Sediment**: Moderate due to insufficient data.  
• **Organics**: High due to one exceedance, and insufficient data.  
• **Selenium**: High due to one exceedance, insufficient data, and detection limits not low enough. |
| Six sampling sites at this surface waterbody. | --- | --- |

| Hassayampa Lake | Sampling | • **Metals**: (d&t 1): antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, silver, zinc; (t1): mercury; fluoride (1).  
• **Sediment**: total dissolved solids (1).  
• **Organics**: none.  
• **Selenium**: none. |
| --- | --- | --- |
| ADEQ ID: 15070103-3160 | Status | Parameters exceeding standards: dissolved copper, lead.  
Currently assessed as Category 3, “Inconclusive” due to insufficient core parameters and sampling events.  
Surface Waterbody risk classification:  
• **Metals**: High due to one dissolved copper and one lead exceedance.  
• **Sediment**: Moderate due to insufficient data.  
• **Organics**: Moderate due to insufficient data.  
• **Selenium**: Moderate due to detection limits not low enough. |
<p>| One sampling site at this surface waterbody. | --- | --- |</p>
<table>
<thead>
<tr>
<th>Subwatershed</th>
<th>Combined Classification for Risk of Impairment:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sols Wash</td>
<td>• <strong>Metals</strong>: Moderate</td>
</tr>
<tr>
<td>HUC 1507010302</td>
<td>• <strong>Sediment</strong>: Low</td>
</tr>
<tr>
<td></td>
<td>• <strong>Organics</strong>: Moderate</td>
</tr>
<tr>
<td></td>
<td>• <strong>Selenium</strong>: Moderate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Subwatershed</th>
<th>Combined Classification for Risk of Impairment:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middle Hassayampa River</td>
<td>• <strong>Metals</strong>: Moderate</td>
</tr>
<tr>
<td>HUC 1507010303</td>
<td>• <strong>Sediment</strong>: Low</td>
</tr>
<tr>
<td></td>
<td>• <strong>Organics</strong>: Moderate</td>
</tr>
<tr>
<td></td>
<td>• <strong>Selenium</strong>: Moderate</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Surface Waterbody</th>
<th>Water Quality Data: Sampling and Assessment Status$^{1,2,3}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hassayampa River</td>
<td>• <strong>Metals</strong>: (d&amp;t 3): antimony, arsenic, beryllium,</td>
</tr>
<tr>
<td>From Sols Wash to 8 miles below Wickenburg</td>
<td>cadmium, chromium, copper, zinc; (d 0-1 &amp; t 3): boron, manganese, lead, mercury; (d&amp;t 1): barium, nickel, silver, thallium; fluoride (3).</td>
</tr>
<tr>
<td>ADEQ ID: 15070103-002A</td>
<td>• <strong>Sediment</strong>: total dissolved solids (3), turbidity (3).</td>
</tr>
<tr>
<td>One sampling site at this surface waterbody.</td>
<td>• <strong>Organics</strong>: Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (3); <em>E. coli</em> (3).</td>
</tr>
<tr>
<td></td>
<td>• <strong>Selenium</strong>: none.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status</th>
<th>Parameters exceeding standards: <em>E. coli</em> (1 in 3 year period), dissolved oxygen due to low flow and ground water upwelling.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Currently assessed as Category 2, “Attaining Some Uses”.</td>
</tr>
<tr>
<td>Surface Waterbody risk classification:</td>
<td>• <strong>Metals</strong>: Moderate due to detection limits not low enough.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Sediment</strong>: Low.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Organics</strong>: Moderate due to low dissolved oxygen, and one <em>E. coli</em> exceedance.</td>
</tr>
<tr>
<td></td>
<td>• <strong>Selenium</strong>: Moderate due to detection limits not low enough.</td>
</tr>
</tbody>
</table>
### Hassayampa River

**From Cottonwood Creek to Martinez Wash**

ADEQ ID: 15070103-004

One sampling site at this surface waterbody.

#### Sampling

- **Metals:** (d&t 16-24): antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, zinc; (d&t 8): barium, nickel, silver, thallium; (d 0-1 & t 8-20): boron, manganese; fluoride (21).
- **Sediment:** total dissolved solids (19), suspended sediment concentration (11), turbidity (21).
- **Organics:** Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (21-22); *E. coli* (21).
- **Selenium:** none.

#### Status

Parameters exceeding standards: *E. coli* (1 in 3 year period).

Currently assessed as Category 2, “Attaining Some Uses”.

Surface Waterbody risk classification:
- **Metals:** Moderate due to detection limits not low enough.
- **Sediment:** Low.
- **Organics:** Moderate due to one exceedance.
- **Selenium:** Moderate due to detection limits not low enough.

---

### Subwatershed

#### Jackrabbit Wash

**HUC 1507010304**

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Moderate
- **Selenium:** Moderate

---

### Subwatershed

#### Lower Hassayampa River

**HUC 1507010305**

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Moderate
- **Selenium:** Moderate

---

### Water Quality Data: Sampling and Assessment Status

<table>
<thead>
<tr>
<th>Surface Waterbody</th>
<th>Water Quality Data: Sampling and Assessment Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1,2,3</td>
</tr>
</tbody>
</table>

---
<table>
<thead>
<tr>
<th>Location</th>
<th>Sampling</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gila River</strong>&lt;br&gt; From Hassayampa River to Centennial Wash</td>
<td><strong>Metals:</strong> no current data.&lt;br&gt;<strong>Sediment:</strong> no current data.&lt;br&gt;<strong>Organics:</strong> no current data.&lt;br&gt;<strong>Selenium:</strong> no current data.</td>
<td>Parameters exceeding standards: no current data.&lt;br&gt;Currently assessed as Category 3, “Inconclusive” due to lack of data.&lt;br&gt;EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.&lt;br&gt;Surface Waterbody risk classification:&lt;br&gt;• <strong>Metals:</strong> Moderate due to insufficient data.&lt;br&gt;• <strong>Sediment:</strong> Moderate due to insufficient data.&lt;br&gt;• <strong>Organics:</strong> Moderate due to insufficient data.&lt;br&gt;• <strong>Selenium:</strong> Moderate due to insufficient data.</td>
</tr>
<tr>
<td><strong>Hassayampa River</strong>&lt;br&gt; From Buckeye Canal to Gila River</td>
<td><strong>Metals:</strong> (d&amp;t 4): antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (d 0-1 &amp; t 4): boron, manganese, lead, mercury; (d 0-1 &amp; t 1): barium, nickel, silver, selenium, thallium; fluoride (4).&lt;br&gt;<strong>Sediment:</strong> total dissolved solids (4), turbidity (4).&lt;br&gt;<strong>Organics:</strong> Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (4); E. coli (3).&lt;br&gt;<strong>Selenium:</strong> selenium.</td>
<td>Parameters exceeding standards: selenium.&lt;br&gt;Currently assessed as Category 2, “Attaining some uses”.&lt;br&gt;EPA assessed as Category 5, “Impaired” due to DDT, toxaphene, and chlordane in fish tissue.&lt;br&gt;Surface Waterbody risk classification:&lt;br&gt;• <strong>Metals:</strong> Moderate due to detection limits not low enough.&lt;br&gt;• <strong>Sediment:</strong> Low.&lt;br&gt;• <strong>Organics:</strong> Low.&lt;br&gt;• <strong>Selenium:</strong> Moderate due to detection limits not low enough.</td>
</tr>
</tbody>
</table>
Hassayampa River  
From Sols Wash to 8 miles below Wickenburg  
ADEQ ID: 15070103-002A  
One sampling site at this surface waterbody.

| Sampling |  • **Metals**: (d&t 3): antimony, arsenic, beryllium, cadmium, chromium, copper, zinc; (d 0-1 & t 3): boron, manganese, lead, mercury; (d&t 1): barium, nickel, silver, thallium; fluoride (3).  
  • **Sediment**: total dissolved solids (3), turbidity (3).  
  • **Organics**: Ammonia, total nitrogen, total phosphorus, nitrite/nitrate, total Kjeldahl nitrogen, dissolved oxygen, pH (3); *E. coli* (3).  
  • **Selenium**: none. |

| Status | Parameters exceeding standards: *E. coli* (1 in 3 year period), dissolved oxygen due to low flow and ground water upwelling.  
  Currently assessed as Category 2, “Attaining Some Uses”.  
  Surface Waterbody risk classification:  
  • **Metals**: Moderate due to detection limits not low enough.  
  • **Sediment**: Low.  
  • **Organics**: Moderate due to low dissolved oxygen, and one *E. coli* exceedance.  
  • **Selenium**: Moderate due to detection limits not low enough. |

| Subwatershed |  Aguila Valley Area-Centennial Wash  
HUC 1507010401  
**Combined Classification for Risk of Impairment:**  
  • **Metals**: Moderate  
  • **Sediment**: Moderate  
  • **Organics**: Moderate  
  • **Selenium**: Moderate |

| Subwatershed |  McMullen Valley Area-Centennial Wash  
HUC 1507010402  
**Combined Classification for Risk of Impairment:**  
  • **Metals**: Moderate  
  • **Sediment**: Moderate  
  • **Organics**: Moderate  
  • **Selenium**: Moderate |
## Subwatershed

### Tiger Wash
**HUC 1507010403**

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Moderate
- **Selenium:** Moderate

### Upper Harquahala Plains Area-Centennial Wash
**HUC 1507010404**

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Moderate
- **Selenium:** Moderate

### Middle Harquahala Plains Area-Centennial Wash
**HUC 1507010405**

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Moderate
- **Selenium:** Moderate

### Winters Wash
**HUC 1507010406**

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Moderate
- **Selenium:** Moderate

### Lower Harquahala Plains Area-Centennial Wash
**HUC 1507010407**

**Combined Classification for Risk of Impairment:**
- **Metals:** Moderate
- **Sediment:** Moderate
- **Organics:** Moderate
- **Selenium:** Moderate

---

1 All water quality constituents had a minimum of three samples unless otherwise indicated by numbers in parenthesis. For example, arsenic (2) indicates two samples have been taken for arsenic on this reach.
2 The number of samples that exceed a standard is described by a ratio. For example, the statement “Exceedances reported for E. coli (1/2),” indicates that one from two samples has exceeded standards for E. coli.

3 The acronyms used for the water quality parameters are defined below:
(d) = dissolved fraction of the metal or metalloid (after filtration), ug/L
(t) = total metal or metalloid (before filtration), ug/L
cadmium (d): Filtered water sample analyzed for dissolved cadmium.
cadmium (t): Unfiltered water sample and sediment/particulates suspended in the water sample analyzed for (t) cadmium content.
chromium (d): Filtered water sample analyzed for dissolved chromium.
chromium (t): Unfiltered water sample and sediment/particulates suspended in the water sample analyzed for (t) chromium content.
copper (d): Filtered water sample analyzed for dissolved copper.
copper (t): Unfiltered water sample and sediment/particulates suspended in the water sample analyzed for (t) copper content.
dissolved oxygen: O2 (mg/L)
E. coli: Escherichia coli bacteria (CFU/100mL)
lead (d): Filtered water sample analyzed for dissolved lead.
lead (t): Unfiltered water sample and sediment/particulates suspended in the water sample analyzed for (t) lead content.
manganese (d): Filtered water sample analyzed for dissolved manganese.
manganese (t): Unfiltered water sample and sediment/particulates suspended in the water sample analyzed for (t) manganese content.
mercury (d): Filtered water sample analyzed for dissolved mercury.
mercury (t): Unfiltered water sample and sediment/particulates suspended in the water sample analyzed for (t) mercury content.
nickel (d): Filtered water sample analyzed for dissolved nickel.
nickel (t): Unfiltered water sample and sediment/particulates suspended in the water sample analyzed for (t) nickel content.
nitrite/nitrate: Water sample analyzed for Nitrite/Nitrate content.
n-kjeldahl: Water sample analyzed by the Kjeldahl nitrogen analytical method which determines the nitrogen content of organic and inorganic substances by a process of sample acid digestion, distillation, and titration.
pH: Water sample analyzed for levels of acidity or alkalinity.
selenium (d): Filtered water sample analyzed for dissolved selenium.
selenium (t): Unfiltered water sample and sediment/particulates suspended in the water sample analyzed for (t) selenium content.
silver (d): Filtered water sample analyzed for dissolved silver.
silver (t): Unfiltered water sample and sediment/particulates suspended in the water sample analyzed for (t) silver content.
suspended sediment concentration: Suspended Sediment Concentration
temperature: Sample temperature
total dissolved solids: tds, (mg/L)
total solids: (t) Solids
total suspended solids: (t) Suspended Solids
turbidity: Measurement of suspended matter in water sample (NTU)
zinc (d): Filtered water sample analyzed for dissolved zinc.
zinc (t): Unfiltered water sample and sediment/particulates suspended in the water sample analyzed for (t) zinc content.

Designated Uses:
Agl: Agricultural Irrigation. Surface water is used for the irrigation of crops.
Agl.: Agricultural Livestock Watering. Surface water is used as a supply of water for consumption by livestock.
A&Ww: Aquatic and Wildlife Warm water Fishery. Surface water used by animals, plants, or other organisms (excluding salmonid fish) for habitation, growth, or propagation, generally occurring at elevations less than 5000 feet.
FC: Fish Consumption. Surface water is used by humans for harvesting aquatic organisms for consumption. Harvestable aquatic organisms include, but are not limited to, fish, clams, crayfish, and frogs.

FBC: Full Body Contact. Surface water use causes the human body to come into direct contact with the water to the point of complete submergence (e.g., swimming). The use is such that ingestion of the water is likely to occur and certain sensitive body organs (e.g., eyes, ears, or nose) may be exposed to direct contact with the water.

References