**Segment ID:** 0407 **Water body name:** James' Bayou

Freshwater Stream | Cypress Creek Basin | Total size: 40 Miles

| Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|
| **Aquatic Life Use** | | | | | | |
| Dissolved Oxygen grab average | Not Assessed | Lower 15 miles of segment | 15 | 4 | 2 | |
| Dissolved Oxygen grab average | Use Concern | Upper 25 miles of segment | 25 | 17 | 5 | |
| Dissolved Oxygen grab minimum | Use Concern | Lower 15 miles of segment | 15 | 4 | 2 | |
| Dissolved Oxygen grab minimum | Fully Supporting | Upper 25 miles of segment | 25 | 17 | 2 | |
| Dissolved Oxygen 24hr average | Not Assessed | Lower 15 miles of segment | 15 | 0 | | |
| Dissolved Oxygen 24hr average | Not Assessed | Upper 25 miles of segment | 25 | 2 | | |
| Dissolved Oxygen 24hr minimum | Not Assessed | Lower 15 miles of segment | 15 | 0 | | |
| Dissolved Oxygen 24hr minimum | Not Assessed | Upper 25 miles of segment | 25 | 2 | | |
| Acute Metals in water | Not Assessed | Lower 15 miles of segment | 15 | 1 | | |
| Acute Metals in water Copper | Use Concern-Limited Data | Upper 25 miles of segment | 25 | 8 | 2 | |
| Chronic Metals in water | Not Assessed | Lower 15 miles of segment | 15 | 1 | | |
| Chronic Metals in water Lead | Use Concern-Limited Data | Upper 25 miles of segment | 25 | 9 | | 0.333 |
| Overall Aquatic Life Use | Fully Supporting | Lower 15 miles of segment | 15 | | | |
| Overall Aquatic Life Use | Fully Supporting | Upper 25 miles of segment | 25 | | | |
| **Contact Recreation Use** | | | | | | |
| E. coli single sample | Not Assessed | Lower 15 miles of segment | 15 | 0 | | |
| E. coli single sample | Not Assessed | Upper 25 miles of segment | 25 | 0 | | |
| E. coli geometric mean | Not Assessed | Lower 15 miles of segment | 15 | 0 | | |
| E. coli geometric mean | Not Assessed | Upper 25 miles of segment | 25 | 0 | | |
| Fecal coliform single sample | Not Assessed | Lower 15 miles of segment | 15 | 3 | | |
| Fecal coliform single sample | No Concern-Limited Data | Upper 25 miles of segment | 25 | 9 | 1 | |

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| Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|
| **Contact Recreation Use** (continued) | | | | | | |
| Fecal coliform geometric mean | Not Assessed | Lower 15 miles of segment | 15 | 3 | | |
| Fecal coliform geometric mean | No Concern-Limited Data | Upper 25 miles of segment | 25 | 9 | | 83 |
| Overall Recreation Use | Not Assessed | Lower 15 miles of segment | 15 | | | |
| Overall Recreation Use | Not Assessed | Upper 25 miles of segment | 25 | | | |
| **General Use** | | | | | | |
| Water Temperature | No Concern-Limited Data | Lower 15 miles of segment | 15 | 4 | 0 | |
| Water Temperature | Fully Supporting | Upper 25 miles of segment | 25 | 22 | 0 | |
| pH | No Concern-Limited Data | Lower 15 miles of segment | 15 | 4 | 0 | |
| pH | Fully Supporting | Upper 25 miles of segment | 25 | 22 | 0 | |
| Chloride | Fully Supporting | Lower 15 miles of segment | 15 | 16 | | 27.6 |
| Chloride | Fully Supporting | Upper 25 miles of segment | 25 | 16 | | 27.6 |
| Sulfate | Fully Supporting | Lower 15 miles of segment | 15 | 16 | | 5.7 |
| Sulfate | Fully Supporting | Upper 25 miles of segment | 25 | 16 | | 5.7 |
| Total Dissolved Solids | Fully Supporting | Lower 15 miles of segment | 15 | 22 | | 112.4 |
| Total Dissolved Solids | Fully Supporting | Upper 25 miles of segment | 25 | 22 | | 112.4 |
| Overall General Use | Fully Supporting | Lower 15 miles of segment | 15 | | | |
| Overall General Use | Fully Supporting | Upper 25 miles of segment | 25 | | | |
| **Fish Consumption Use** | | | | | | |
| Human Health Criteria | Not Assessed | Lower 15 miles of segment | 15 | 1 | | |
| Human Health Criteria | No Concern-Limited Data | Upper 25 miles of segment | 25 | 9 | | |
| Overall Fish Consumption Use | Not Assessed | Lower 15 miles of segment | 15 | | | |

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Freshwater Stream | Cypress Creek Basin | Total size: 40 Miles

| Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|
| **Fish Consumption Use** (continued) | | | | | | |
| Overall Fish Consumption Use | Not Assessed | Upper 25 miles of segment | 25 | | | |
| **Public Water Supply Use** | | | | | | |
| Surface Water: Long-term average | Not Assessed | Lower 15 miles of segment | 15 | 1 | | |
| Surface Water: Long-term average | No Concern-Limited Data | Upper 25 miles of segment | 25 | 9 | | |
| Surface Water: Long-term average Nitrate+Nitrite Nitrogen | Not Assessed | Lower 15 miles of segment | 15 | 3 | | |
| Surface Water: Long-term average Nitrate+Nitrite Nitrogen | Fully Supporting | Upper 25 miles of segment | 25 | 13 | | 0.08 |
| Surface Water: Running average | Not Assessed | Lower 15 miles of segment | 15 | 1 | | |
| Surface Water: Running average | No Concern-Limited Data | Upper 25 miles of segment | 25 | 9 | | |
| Surface Water: Running average Nitrate+Nitrite Nitrogen | Not Assessed | Lower 15 miles of segment | 15 | 3 | | |
| Surface Water: Running average Nitrate+Nitrite Nitrogen | Fully Supporting | Upper 25 miles of segment | 25 | 13 | | |
| Overall Public Water Supply Use | Fully Supporting | Lower 15 miles of segment | 15 | | | |
| Overall Public Water Supply Use | Fully Supporting | Upper 25 miles of segment | 25 | | | |
| **Overall Use Support** | | | | | | |
| | Fully Supporting | Lower 15 miles of segment | 15 | | | |
| | Fully Supporting | Upper 25 miles of segment | 25 | | | |
| **Nutrient Enrichment Concern** | | | | | | |
| Ammonia Nitrogen | Not Assessed | Lower 15 miles of segment | 15 | 3 | | |
| Ammonia Nitrogen | Concern | Upper 25 miles of segment | 25 | 14 | 4 | |
| Nitrite + Nitrate Nitrogen | Not Assessed | Lower 15 miles of segment | 15 | 3 | | |
| Nitrite + Nitrate Nitrogen | No Concern | Upper 25 miles of segment | 25 | 13 | 0 | |

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Freshwater Stream | Cypress Creek Basin | Total size: 40 Miles

| Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|
| **Nutrient Enrichment Concern** (continued) | | | | | | |
| Orthophosphorus | Not Assessed | Lower 15 miles of segment | 15 | 2 | | |
| Orthophosphorus | No Concern | Upper 25 miles of segment | 25 | 13 | 0 | |
| Total Phosphorus | Not Assessed | Lower 15 miles of segment | 15 | 2 | | |
| Total Phosphorus | No Concern | Upper 25 miles of segment | 25 | 14 | 0 | |
| Overall Nutrient Enrichment Concerns | Not Assessed | Lower 15 miles of segment | 15 | | | |
| Overall Nutrient Enrichment Concerns | Concern | Upper 25 miles of segment | 25 | | | |
| **Algal Growth Concern** | | | | | | |
| Chlorophyll a | Not Assessed | Lower 15 miles of segment | 15 | 2 | | |
| Chlorophyll a | No Concern | Upper 25 miles of segment | 25 | 14 | 2 | |
| **Sediment Contaminants Concern** | | | | | | |
| Metals in sediment | Not Assessed | Upper 25 miles of segment | 25 | 2 | | |
| Overall Sediment Contaminant Concerns | Not Assessed | Lower 15 miles of segment | 15 | | | |
| Overall Sediment Contaminant Concerns | Not Assessed | Upper 25 miles of segment | 25 | | | |
| **Fish Tissue Contaminants Concern** | | | | | | |
| Overall Fish Tissue Contaminant Concerns | Not Assessed | Lower 15 miles of segment | 15 | | | |
| Overall Fish Tissue Contaminant Concerns | Not Assessed | Upper 25 miles of segment | 25 | | | |
| **Public Water Supply Concern** | | | | | | |
| Finished Water: Chloride | No Concern | Lower 15 miles of segment | 15 | | | |
| Finished Water: Chloride | No Concern | Upper 25 miles of segment | 25 | | | |

**Segment ID:** 0407 **Water body name:** James' Bayou

Freshwater Stream | Cypress Creek Basin | Total size: 40 Miles

| Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|
| **Public Water Supply Concern** (continued) | | | | | | |
| Finished Water: Sulfate | No Concern | Lower 15 miles of segment | 15 | | | |
| Finished Water: Sulfate | No Concern | Upper 25 miles of segment | 25 | | | |
| Finished Water: Total Dissolved Solids | No Concern | Lower 15 miles of segment | 15 | | | |
| Finished Water: Total Dissolved Solids | No Concern | Upper 25 miles of segment | 25 | | | |
| Finished Water: MTBE | No Concern | Lower 15 miles of segment | 15 | | | |
| Finished Water: MTBE | No Concern | Upper 25 miles of segment | 25 | | | |
| Finished Water: Perchlorate | Not Assessed | Lower 15 miles of segment | 15 | | | |
| Finished Water: Perchlorate | Not Assessed | Upper 25 miles of segment | 25 | | | |
| Finished Water: Overall | No Concern | Lower 15 miles of segment | 15 | | | |
| Finished Water: Overall | No Concern | Upper 25 miles of segment | 25 | | | |
| Surface Water: Chloride | No Concern | Lower 15 miles of segment | 15 | 16 | | 27.6 |
| Surface Water: Chloride | No Concern | Upper 25 miles of segment | 25 | 16 | | 27.6 |
| Surface Water: Sulfate | No Concern | Lower 15 miles of segment | 15 | 16 | | 5.7 |
| Surface Water: Sulfate | No Concern | Upper 25 miles of segment | 25 | 16 | | 5.7 |
| Surface Water: Total Dissolved Solids | No Concern | Lower 15 miles of segment | 15 | 22 | | 112.4 |
| Surface Water: Total Dissolved Solids | No Concern | Upper 25 miles of segment | 25 | 22 | | 112.4 |
| Surface Water: Overall | No Concern | Lower 15 miles of segment | 15 | | | |
| Surface Water: Overall | Concern | Upper 25 miles of segment | 25 | | | |
| Overall Public Water Supply Concerns | No Concern | Lower 15 miles of segment | 15 | | | |
| Overall Public Water Supply Concerns | Concern | Upper 25 miles of segment | 25 | | | |

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Freshwater Stream | Cypress Creek Basin | Total size: 40 Miles

| Assessment Method | Status of Use Support or Concern | Location | Location size | # of samples | # of exceedances | Mean |
|---|---|---|---|---|---|---|
| **Narrative Criteria Concern** | | | | | | |
| Overall Narrative Criteria Concerns | No Concern | Lower 15 miles of segment | 15 | | | |
| Overall Narrative Criteria Concerns | No Concern | Upper 25 miles of segment | 25 | | | |
| **Overall Secondary Concern** | | | | | | |
| | No Concern | Lower 15 miles of segment | 15 | | | |
| | Concern | Upper 25 miles of segment | 25 | | | |