

## MAINTENANCE ACTIVITY REPORT

**Site Name/Facility:** Reservoir Drive Channel

**PEIR Map No:** 64a

**Date:**                      **Start:** 11-28-2014                      **Completion:** 11-28-2014

**Preparer Name:** John Scampone, Daniel Lottermoser, Stephanie Bracci

**Instructions:** This form must be completed following any work done at a storm water facility. Attach additional sheets if needed.

<p><b><u>Description of Work (e.g., routine, re-occurring; also note general frequency maintenance at this site):</u></b></p> <p>Emergency, not re-occurring. Vegetation and sediment was removed from the entire length of the Reservoir Drive Channel during the daylight hours on November 28, 2014. The approximate channel length is 810 feet and the width is 4 feet (3,240 square feet).</p>	
<p><b>Street Name:</b> 1) 5410 - 5504 Reservoir Drive</p> <p><b>Latitude:</b> <u>32.7744</u>    <b>Longitude:</b> <u>-117.0562</u></p>	<p><b>Work Orientation from Street (N, S, E, W):</b> East of Reservoir Drive,</p> <p><b>Location Between:</b> North of Reservoir Lane and South of Alvarado Road</p>
<p><b>Maintenance Facility Type:</b></p> <p><input type="checkbox"/> Stream                      <input type="checkbox"/> Roadside Ditch  <input type="checkbox"/> Spillway                      <input type="checkbox"/> Culvert  <input type="checkbox"/> Detention Basin  <input checked="" type="checkbox"/> Other: <u>Concrete Lined Channel</u></p>	<p><b>Additional Description:</b></p>
<p><b>Work within drainage/creek:</b>  <b>Length:</b> 810 feet          (How many linear feet were cleared)</p>	<p><b>Name of Drainage/Creek:</b> Reservoir Drive Channel  <b>Width (FT):</b> 4                      <b>Area (SQ FT):</b> 3240  <b>Depth (FT):</b> 3 – 3.5</p>
<p><b>Is the creek lined:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p><b>Notes:</b> Refer to additional description of maintenance facility type above.</p>	<p><b>Lining Type:</b></p> <p><input checked="" type="checkbox"/> Concrete lined both sides, bottom  <input type="checkbox"/> Earthen, both sides, bottom  <input type="checkbox"/> Riprap sides, earth bottom  <input type="checkbox"/> Concrete sides, earth bottom  <input type="checkbox"/> Other type:</p>
<p><b>Silt/Sand Removal:</b>          Length: Approximately 400 feet. No silt/sand was present on sloped portions of channel.</p>	<p><b>Describe cause of silt/sand:</b></p>
<p><b>Debris Removal:</b>          Length: Approximately 200 feet. Debris accumulation was sparse and was found mostly near the heavily vegetated portion of channel immediately north of the outfall pipe at south end of the channel.</p>	<p><b>Describe debris and cause:</b></p>

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<p><b>Were any toxic materials found:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p><b>List toxics:</b></p> <p><b>Hazardous Material Manifest:</b></p>	<p><b>Were more than 9 tires recovered?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p><b>CTL Number:</b> _____</p>
<p><b>Access via previously disturbed area:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p><b>Access route:</b> From paved, asphalt street (5410-5504 Reservoir Drive)</p> <p><b>Maintenance Equipment Used:</b></p> <ul style="list-style-type: none"> <li>• Gradall (XL 5100 III)</li> <li>• Backhoe (John Deere 410J)</li> <li>• Skid Steer (Bobcat 553)</li> <li>• Dump Trucks (10/12 yard)</li> <li>• Vactor (2100 Series)</li> </ul>
<p><b>Vegetation Removal:</b> Length: Approximately 500 feet. Only sparse vegetation was found on the sloped portion of the channel.</p>	<p><b>Types of Vegetation Removed:</b> 0.058 ac of disturbed freshwater marsh predominated by cattail (<i>Typha latifolia</i>) and Mexican fan palm (<i>Washingtonia robusta</i>); 0.013 ac of freshwater marsh predominated by cattail; 0.012 ac disturbed wetland consisting of Mexican fan palm and Bermuda grass (<i>Cynodon dactylon</i>); and 0.065 ac of developed land consisting of bare concrete with occasional individuals of fountain grass (<i>Pennisetum setaceum</i>) and umbrella sedge (<i>Cyperus involucratus</i>).</p> <p>(Indicate bush, trees, plants, grasses, list diameter of trunk at 4' height)</p>
<p><b>Ground Disturbing Activities:</b> Length: <u>None</u> (How many linear feet were disturbed by activity)</p>	<p><b>Upland Vegetation Removed - Types &amp; Area:</b> None</p>
<p><b>Were erosion controls necessary?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p><b>Describe interim erosion control measures:</b></p> <p>The project performed no ground disturbance, so no erosion control was necessary. City staff did however perform sediment control as follows. No sand or gravel bags were permitted (or utilized) within the channel structure during maintenance activities. A Vactor truck was onsite to vacuum up standing/moving water. The Vactor was stationed at the pipe outfall at the south end of the channel and removed water prior to the Bobcat entering the channel. No subsequent waters entered the channel during operations. The Vactor then transitioned to the inlet pipe at the north end of the channel and vacuumed up low-flow waters that meandered downstream during the removal of the water-dense vegetation. A street sweeper completely cleaned the road following the completion of the mechanized cleaning.</p>
<p><b>Did work occur within nesting breeding season (January 15 – August 31)?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p><b>Biologist/Monitor/Archaeologist present:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <b>Names:</b> _____</p>
<p><b>Was any water quality sampling required?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	
<p><b>Additional Maintenance Description:</b></p> <p>N/A</p>	

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**Describe surrounding land use within work area (assume 500-foot buffer area):**

Surrounding land uses include a hospital, residential areas (single family home and apartments), highways and other developed infrastructure. One side of the channel is adjacent to a sloped area that is part of the MHPA.

**Identify temporary/permanent impacts to habitat by area (acres/square footage) as determined by Biologist:**

0.058 ac of disturbed freshwater marsh dominated by cattail (*Typha latifolia*) and Mexican fan palm (*Washingtonia robusta*); 0.013 ac of freshwater marsh dominated by cattail; 0.012 ac disturbed wetland consisting of Mexican fan palm and Bermuda grass (*Cynodon dactylon*); and 0.065 ac of developed land consisting of bare concrete with occasional individuals of fountain grass (*Pennisetum setaceum*) and umbrella sedge (*Cyperus involucratus*)

**Additional Comments (Describe any unusual conditions, situations or special requirements needed to do the work such as diversion of water, construction of staging area, replacement of bank material, presence of utilities, etc.):**

During maintenance operations, the removal of rooted vegetation compromised the concrete walls and floor. Infrastructure repairs should be initiated as soon as possible, as the continuous water flowing through the channel will contribute to exacerbated degradation.

**LIST QUANTITIES REMOVED**

Approximately 264 cubic yards (130.66 tons) of material (i.e. sediment, trash, vegetation, and debris) was removed with mechanized equipment from the Reservoir Drive Channel on November 28, 2014 and appropriately disposed of in the Miramar Landfill.

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**SITE PHOTOS**

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Photo 1



Photo 2

**PHOTO NOTES:**

Photo 1: Looking downstream (north) from outfall pipe, before maintenance (11/25/2014).

Photo 2: Looking downstream (north) towards inlet pipe, before maintenance (11/25/2014).



Photo 1a



Photo 2a

**PHOTO NOTES:**

Photo 1a: Looking downstream (north) from outfall pipe, after maintenance (12/22/2014).

Photo 2a: Looking downstream (north) towards inlet pipe, after maintenance (12/22/2014).