## PHOTOGRAPHIC SURVEY

<table>
<thead>
<tr>
<th>PROJECT:</th>
<th>Corrosion and Seismic/Structural/Safety Engineering Evaluation of Two Welded Steel Water Storage Tanks</th>
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</thead>
<tbody>
<tr>
<td>STRUCTURE:</td>
<td>Exterior of a 2.5 MG Welded Steel Water Storage Tank (Hawkins South Tank)</td>
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<tr>
<td>OWNER:</td>
<td>City of South Gate</td>
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<tr>
<td>LOCATION:</td>
<td>South Gate, California</td>
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<tr>
<td>PHOTOGRAPHED BY:</td>
<td>Andre Harper, Project Engineer</td>
</tr>
<tr>
<td>DATE:</td>
<td>February 2022</td>
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</tbody>
</table>

E-1 View of the Hawkins South Tank, illustrating moderate oxidation and fading and otherwise good condition of the paint system.
E-2  View of the roof, illustrating dirt and staining on the roof surfaces. Note areas of exposed red prime coat and general corrosion on the roof plates.

E-3  View of the center vent, illustrating moderate corrosion along the upper and lower portions of the vent neck. Note delaminating topcoat on the vent cover.

E-4  View of a portion of the roof, illustrating dirt, staining, and delaminating paint on the roof surface. Note areas of light brown general corrosion.
E-5  Same as Photo E-4, except a different portion of the roof.

E-6  View of the edge of the roof, illustrating tree branches hanging over and onto the roof plates.

E-7  View of the roof hatch/work area, illustrating minor corrosion at the roof hatch and platform.
E-8  View of the liquid level indicator piping, illustrating a corroded bracket on the backside of the gauge board. Note exposed prime coat on the adjacent roof and general corrosion on the adjacent guardrailing.

E-9  View of the roof and a kickplate, illustrating general corrosion on the kickplate. Note moderate to severe corrosion at the circumference of the cathodic protection handholes.

E-10 View of the ladder removable extension storage box, illustrating delaminating paint and general corrosion on and in the storage box.
E-11 View of the roof hatch, illustrating corrosion along the hatch curb and underside of the cover. Note debris on the adjacent roof.

E-12 View of the ladder platform, illustrating general corrosion on the grating and adjacent guardrails.

E-13 View of the guardrail leading to the ladder cage, illustrating delaminating paint and general corrosion on the upper rails.
E-14 View of the top of the ladder and cage, illustrating moderate general corrosion on the guardrailing, kickplates, and expanded metal covering the cage.

E-15 View of the bottom of the ladder and the primary manhole, illustrating moderate oxidation and fading and otherwise good condition of the paint system.

E-16 View of the upper shell courses, illustrating generally good condition of the paint system and mural.
E-17  View of a portion of the shell, illustrating generally good condition of the paint system.

E-18  Same as Photo E-17, except in a different location. Note generally good condition of the mural.

E-19  View of the lower shell courses, illustrating moss present along the welds in this area.
E-20 View of the shell, illustrating an isolated area of delaminating paint with exposed prime coat.

E-21 Same as Photo E-20, except in a different location.

E-22 View of the primary manhole, illustrating minor corrosion at the hinge and around the nuts and bolts.
E-23 View of the identification plate, illustrating minor corrosion along the perimeter of the plate.

E-24 View of the secondary manhole, illustrating minor corrosion and moss and dirt clinging to the nuts and bolts and circumference of the reinforcing plate.

E-25 View of a sample port and protective cover, illustrating minor corrosion along the edges of the protective cover. Note corrosion along the bottom plate extension (BPE) and poor condition of the caulking between the BPE and concrete foundation.