PHOTOGRAFFIC SURVEY

PROJECT: Corrosion and Seismic/Structural/Safety Engineering Evaluation of Two Welded Steel Water Storage Tanks

STRUCTURE: Exterior of a 2.5 MG Welded Steel Water Storage Tank (Hawkins North Tank)

OWNER: City of South Gate

LOCATION: South Gate, California

PHOTOGRAPHED BY: Andre Harper, Project Engineer

DATE: February 2022

E-1 View of the Hawkins North Tank, illustrating dirt and staining on the roof and moderate to severe oxidation and fading of the paint system on the roof and shell.
E-2  View of the roof, illustrating dirt and staining on the roof surfaces.

E-3  View of the center vent, illustrating moderate corrosion along the upper and lower portions of the vent neck.

E-4  View of a portion of the roof, illustrating dirt, staining, and delaminating paint on the roof surface.
E-5  Same as Photo E-4, except a different portion of the roof. Note areas of general corrosion and exposed (red) prime coat.

E-6  Same as Photos E-4 and E-5, except a different portion of the roof.

E-7  View of the edge of the roof, illustrating delaminating topcoats. Note exposed primer in the delaminating areas.
E-8  Same as Photo E-7, except in a different location. Note tree branches lying on the roof in this location.

E-9  View of two cathodic protection handholes, illustrating moderate to severe corrosion at the circumference of both handhole covers and on the covers.

E-10 View of the roof hatch/work area, illustrating minor corrosion at the roof hatch and platform.
E-11 View of the ladder removable extension storage box, illustrating delaminating paint and general corrosion on and in the storage box.

E-12 View of the guardrails and an equipment box, illustrating delamination of the paint system and minor corrosion on the guardrails and equipment box.

E-13 View of the roof hatch, illustrating corrosion along the hatch curb and underside of the cover. Note debris on the adjacent roof.
E-14 View of the ladder platform, illustrating general corrosion on the grating and delamination of the paint system on the adjacent guardrails.

E-15 View of the top of the ladder and cage, illustrating general corrosion on the expanded metal covering the cage.

E-16 View of the lower portion of the ladder and cage, illustrating generally good condition of the paint system.
E-17  View of the liquid level indicator gauge board, illustrating randomly worn numbering and otherwise good condition of the gauge board. Note exposed primer on the adjacent knuckle.

E-18  View of a portion of the shell, illustrating dirt and moss along the welds and spots of corrosion on adjacent surfaces.

E-19  View of the primary manhole, illustrating minor corrosion at the hinge and around the nuts and bolts.
E-20  View of the identification plate, illustrating minor corrosion along the perimeter of the plate.

E-21  View of the secondary manhole, illustrating dirt and cobwebs clinging to the manhole cover and reinforcing plate.

E-22  View of a sample port and protective cover, illustrating minor corrosion along the edges of the protective cover.
E-23 View of the bottom plate extension (BPE), illustrating poor condition of the caulking and minor to moderate corrosion along the exposed BPE.

E-24 Same as Photo E-23, except in a different location. Note cracked paint and staining on the concrete ringwall.

E-25 Same as Photos E-23 and E-24, except in a different location.