

Phoenix Goodyear Airport-South Project Site Status Report

Community Advisory Group Meeting
February 7, 2013

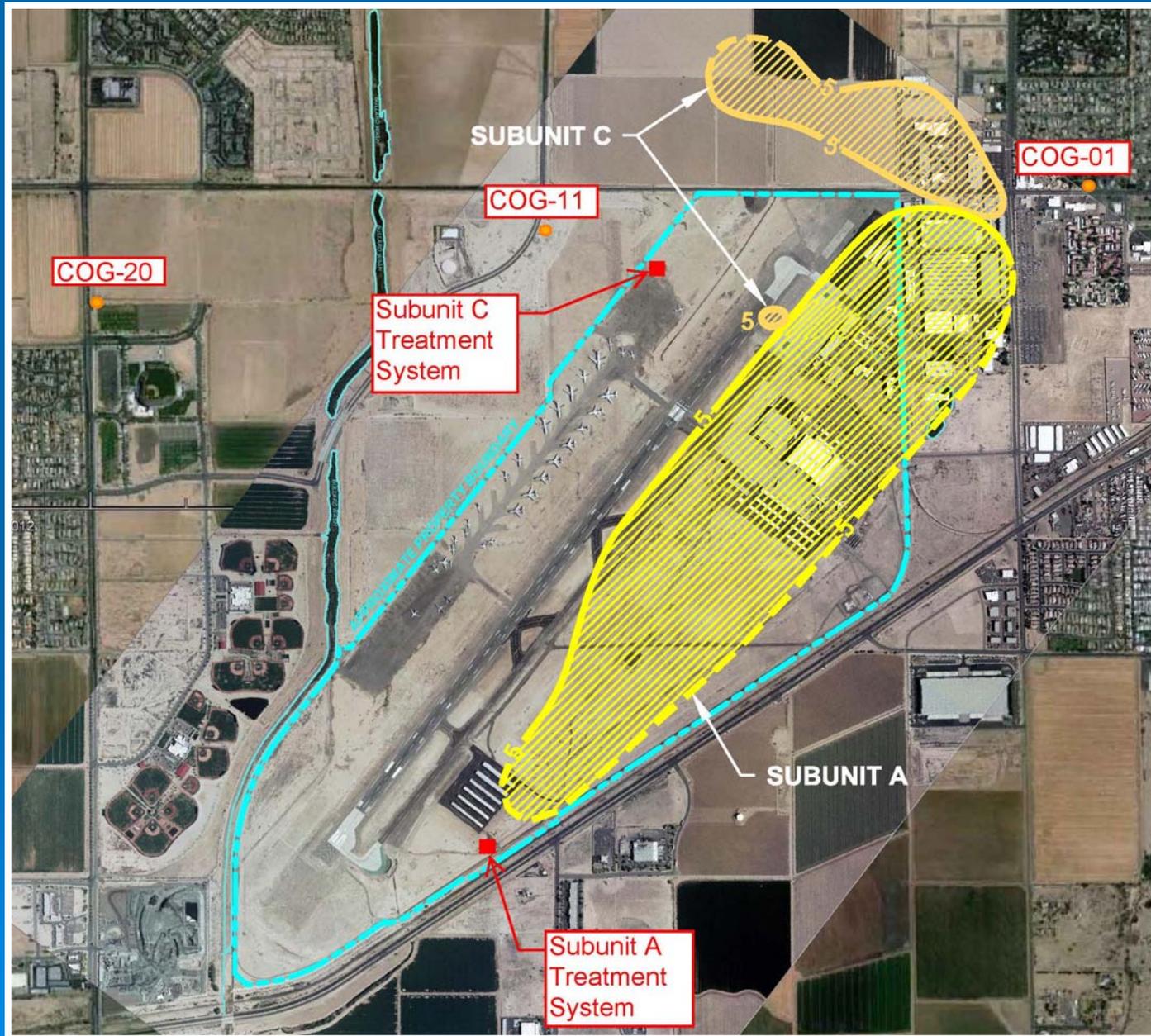
Jeff Sussman
Remediation Manager
The Goodyear Tire & Rubber Company



Agenda

- **Current plume locations**
- **Status of ongoing cleanup**
- **Review of current/upcoming activities**

Current TCE Plume Limits



Status of Ongoing Cleanup

Subunit A Aquifer

- Peak TCE concentrations in monitoring wells have declined from 2,600 µg/L in 1990 to 360 µg/L in second half of 2012
- Treatment system uptime during fourth quarter of 2012 was 98.3%

Subunit C Aquifer

- Peak TCE concentrations in Northern Subunit C monitoring wells have declined from 180 µg/L in 1990 to 89 µg/L in the second half of 2012¹
- Treatment system uptime during fourth quarter of 2012 was 77.4% (owing to proactive system upgrades and maintenance)

Review of Current/Upcoming Activities

- Installed 3 and abandoned 2 Subunit A monitoring wells (1/2013)
- Replaced aboveground piping on the Subunit C water treatment system (12/2012)
- Install 2 upsized extraction pumps in Subunit A to improve groundwater extraction rates (2/2013)
- Install 2 northern Subunit C delineation monitoring wells (1Q 2013)
- Initiate northern Subunit C chromium investigation 1Q 2013
- Abandon GAC-01 in 1Q 2013
- In-situ treatability testing and groundwater modeling (ongoing)

Subunit A Well Abandonment/Installation (E-07R post-installation development)



Subunit A Well Abandonment/Installation



INJSB-05 abandonment



Newly-installed GMW-24

Subunit C Piping Replacement



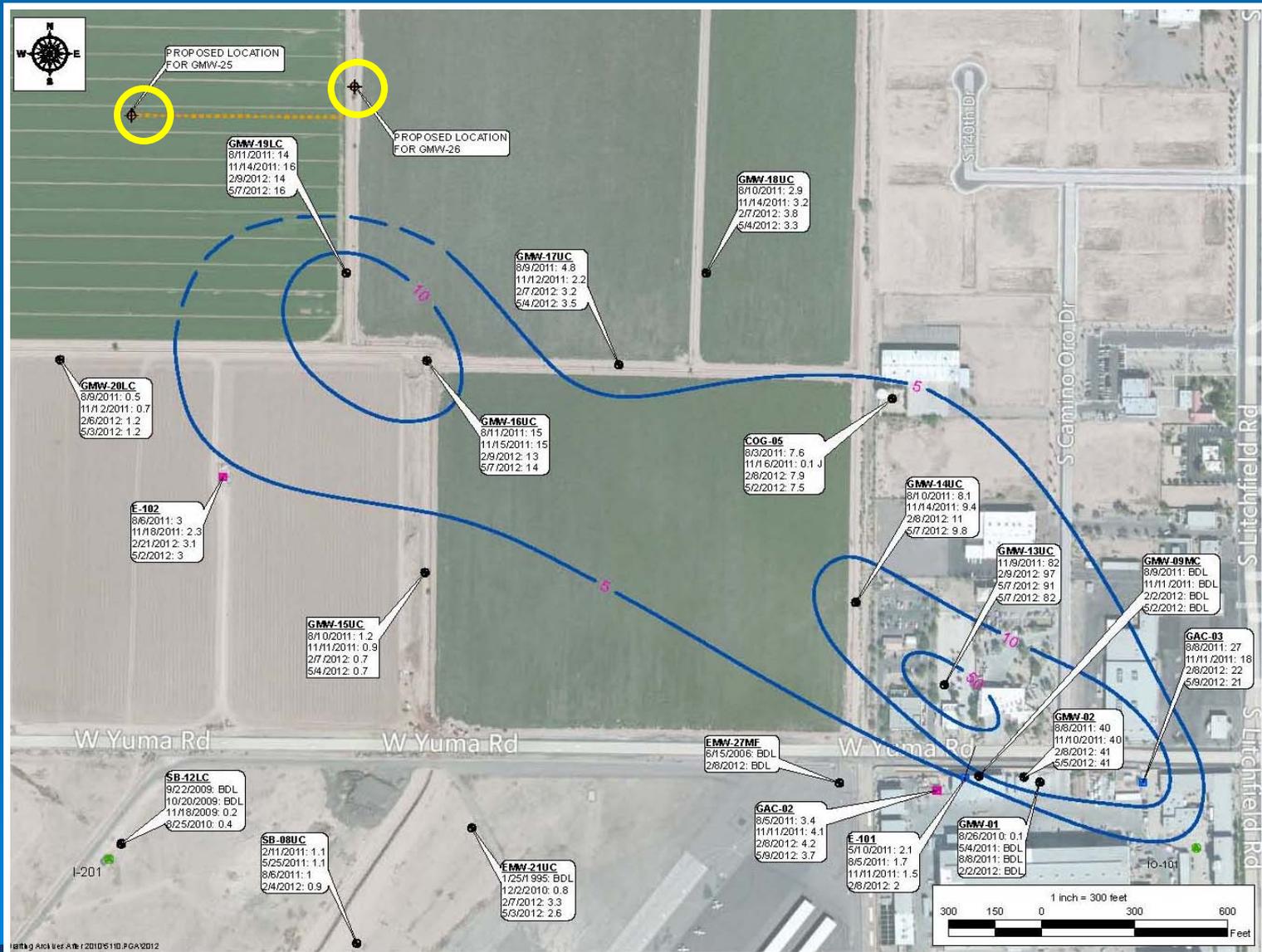
Replaced over 60 feet of steel piping and 8 valves to proactively protect against leaks and releases

Northern Subunit C Investigations

- GTRC will install two delineation wells to define the leading edge of the TCE plume
 - ✓ Work Plan approved January 18, 2013
 - ✓ Access agreements in place with property owners

- GTRC will investigate lateral/vertical extent of Cr downgradient of presumed source, using depth-discrete sampling from borings along a north-south transect
 - ✓ Work Plan submitted September 26, 2012
 - ✓ Work Plan approval anticipated February 2013
 - ✓ Access agreement in place with property owner

Proposed Northern Subunit C TCE Delineation Wells



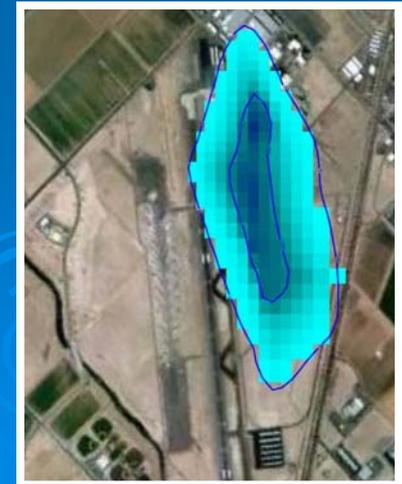
10/13/10 Acl User: Acl 7/2010/6/110.PGA/2012

Proposed Northern Subunit C Chromium Investigation



Groundwater Modeling and In-Situ Treatability Studies (Biotrap)

- GTRC is working with the agencies to establish modeling applications and goals
- Model will be used for remediation optimization
- Biotrap analyses and studies to evaluate the feasibility of in-situ treatment of TCE and Cr are ongoing



Thank you.

Questions?

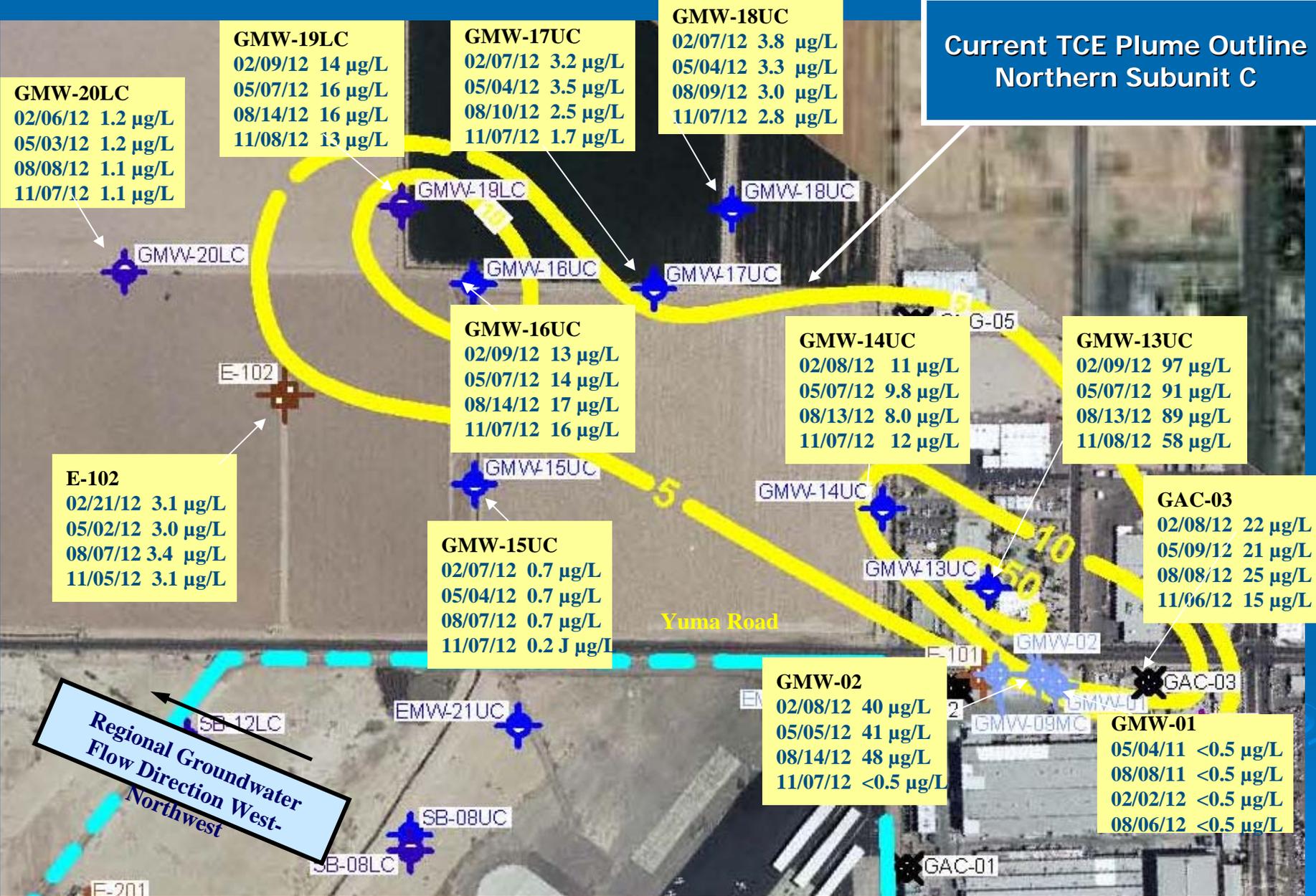


Original TCE Plume Outline
Southern Subunit C

TCE Concentration, 2012
(max. since 9/2009)



**Current TCE Plume Outline
Northern Subunit C**



GMW-20LC
02/06/12 1.2 µg/L
05/03/12 1.2 µg/L
08/08/12 1.1 µg/L
11/07/12 1.1 µg/L

GMW-19LC
02/09/12 14 µg/L
05/07/12 16 µg/L
08/14/12 16 µg/L
11/08/12 13 µg/L

GMW-17UC
02/07/12 3.2 µg/L
05/04/12 3.5 µg/L
08/10/12 2.5 µg/L
11/07/12 1.7 µg/L

GMW-18UC
02/07/12 3.8 µg/L
05/04/12 3.3 µg/L
08/09/12 3.0 µg/L
11/07/12 2.8 µg/L

E-102
02/21/12 3.1 µg/L
05/02/12 3.0 µg/L
08/07/12 3.4 µg/L
11/05/12 3.1 µg/L

GMW-16UC
02/09/12 13 µg/L
05/07/12 14 µg/L
08/14/12 17 µg/L
11/07/12 16 µg/L

GMW-14UC
02/08/12 11 µg/L
05/07/12 9.8 µg/L
08/13/12 8.0 µg/L
11/07/12 12 µg/L

GMW-13UC
02/09/12 97 µg/L
05/07/12 91 µg/L
08/13/12 89 µg/L
11/08/12 58 µg/L

GMW-15UC
02/07/12 0.7 µg/L
05/04/12 0.7 µg/L
08/07/12 0.7 µg/L
11/07/12 0.2 µg/L

GMW-14UC
02/08/12 11 µg/L
05/07/12 9.8 µg/L
08/13/12 8.0 µg/L
11/07/12 12 µg/L

GAC-03
02/08/12 22 µg/L
05/09/12 21 µg/L
08/08/12 25 µg/L
11/06/12 15 µg/L

GMW-02
02/08/12 40 µg/L
05/05/12 41 µg/L
08/14/12 48 µg/L
11/07/12 <0.5 µg/L

GMW-01
05/04/11 <0.5 µg/L
08/08/11 <0.5 µg/L
02/02/12 <0.5 µg/L
08/06/12 <0.5 µg/L

**Regional Groundwater
Flow Direction West-
Northwest**



**TCE Concentrations
(Last 4 quarters)**

