From:	Lyons, John
To:	Wetmore, Cynthia
Cc:	Barton, Dana
Subject:	RE: pCBSA Impact and Lynnwood - follow-up
Date:	Wednesday, January 07, 2015 7:54:00 AM
Attachments:	image001.png image002.png image003.png

Let's discuss this today - this morning before 11 would be good

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From: Wetmore, Cynthia
Sent: Thursday, December 18, 2014 10:44 AM
To: Lyons, John
Cc: Barton, Dana
Subject: pCBSA Impact and Lynnwood - follow-up

Here is the projected footprint of the pCBSA in the Lynnwood after 20 years of injection at the current design 25 ppm or less.

The flow direction in the Lynwood aquifer is to the east and an approximate rate of plume migration in the Lynwood aquifer estimated using the model appears to be 400 ft per year. p-CBSA hits a maximum of about 6800 ug/L in the Lynwood at 50 years. It shows up in the Lynwood at 500 ug/L at 3 years, at 1000 ug/L in 5 years, and at
3000 ug/L in 13 years

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From: Natalia.Raykhman@CH2M.com [mailto:Natalia.Raykhman@CH2M.com]
Sent: Monday, December 08, 2014 5:17 PM
To: Wetmore, Cynthia
Cc: Michael.Basial@CH2M.com
Subject: pCBSA Impact on Production Wells

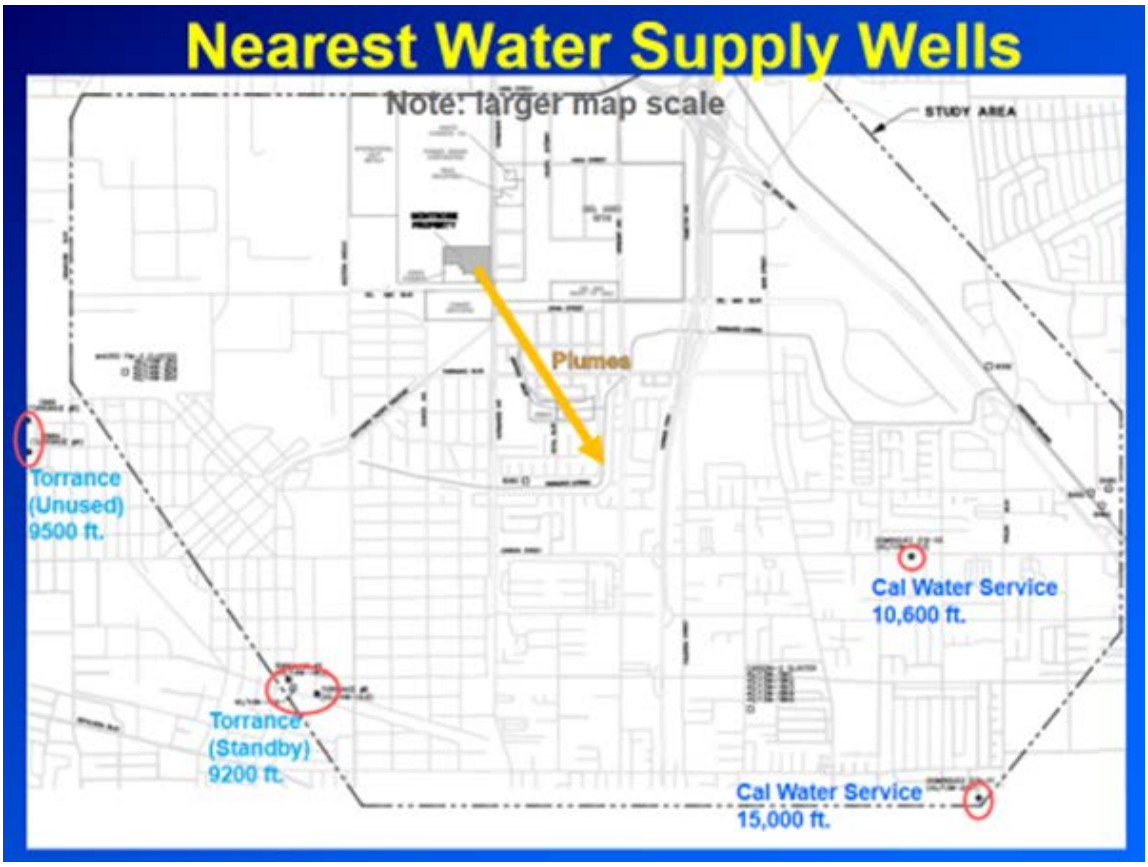
Hi Cynthia,
Based on our analysis, it doesn't appear that any of the nearby production wells will be impacted by pCBSA within at least 26 years. This is because:
(1) the pCBSA plume from the injection occurring west of the Montrose site appears to be contained by Mobil remediation wells and doesn't travel further to the west, and
(2) there are no production wells within at least 2 miles of the Montrose site to the east. Based on the limited data available for the Lynwood aquifer beneath the dual site, the flow direction in

the Lynwood aquifer is to the east. An approximate rate of plume migration in the Lynwood aquifer estimated using the model appears to be 400 ft per year. Based on the above, it will take more than 26 years for the plume to travel 2 miles to the east. Given the fact that production wells are located further than 2 miles from the site to the east, these wells will not likely be impacted by the pCBSA plume from the eastern injection wells for at least 26 years.

Please let me know if you have any questions
Best Regards
Natasha

From: Wetmore, Cynthia [mailto:Wetmore.Cynthia@epa.gov]
Sent: Monday, December 08, 2014 2:59 PM
To: Raykhman, Natalia/SCO
Subject: quick question.....
Importance: High

Natasha – is this map show the distance from the Montrose Site to nearest supply well (or distance from edge of plume to supply wells) thanks, Cynthia



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