



MEETING MINUTES

Minutes of the Broadway-Pantano Water Quality Assurance Revolving Fund (WQARF) Site Community Advisory Board (CAB) Meeting – 47th meeting

September 18, 2012, 6:00 - 8:00 p.m.
Eastside City Hall, Room C
7575 E. Speedway Blvd.
Tucson, Arizona

Final Minutes

CAB Members Present: Cheri Bludau, Mark Brusseau, James Garrett, Jr., Mike Mahan, Janet Marcus, Aubrey McMullen, Jackie Olson, Jean Sabo, Michael Smith

CAB Members Absent: Carla Casler, Dolores Fife, Bill Petroustson, Wanda Ryckman

ADEQ Southern Regional Office Staff Present: William Ellett, Superfund Programs Unit Manager; Gretchen Wagenseller, Project Manager; Delfina Olivarez, Community Involvement Coordinator; Melissa Hayes, Community Liaison; Marvel Encinas, Administrative Assistant

Members of the Public Present: Richard R. Hoppe (resident), Erin Richardson (Jones Skelton & Hochuli), Michelle Oakley (TetraTech), Scott Parsons (TetraTech), Dave Eaker (PDEQ), Bruce Prior (Tucson Water), Dick Coffey (resident), Harlan Agnew (Pima County Attorney's), Jim Murphy (Airport Authority), Jim Faas (Pima County Risk Management), Rick Morgan (ATC), Phil Schneider (ATC), Lee Lohman (resident)

The meeting began at 6:00 p.m.

1. Call to Order/Introductions

Co-chair Jim Garrett Jr. conducted introductions of CAB members and public participants. CAB members commented on Judy Burns passing and acknowledged her involvement and impact on the CAB.

2. CAB Recommencement—Charter, Open Meeting Law/Quorum, CAB Notebooks, Information Repository

Mr. Garrett Jr., reviewed the CAB charter to remind everyone of the purpose of the CAB. All members present were reminded of the statutory authority for the CAB (A.R.S. §49-289.03.) as well as other responsibilities and operating procedures. He stated that this CAB does operate using Robert Rules of Order. A handout on Open Meeting Law was given to the CAB members and reviewed. Mr. Garrett Jr., added that the CAB is an advisory board not a policy-making board.

Mr. Garrett Jr. also added it is appreciated that ADEQ includes and welcomes the community in their work.

Ms. Gretchen Wagenseller confirmed which CAB members were in need of notebooks. Ms. Wagenseller asked the CAB to request notebooks through her. The CAB was informed that the repository was at Wilmot Library, but had to be moved to the ADEQ Southern Regional Office due to various issues at the library.

Mr. Harlan Agnew, Pima County Attorney, asked if the repository contained all the references listed in the Final Groundwater Operable Unit Remedial Investigation (GOU RI) Report. Ms. Wagenseller explained that the official public file location is ADEQ office in Phoenix and offered that he can email or call her with his request for referenced documents which are not in the public file. Mr. Agnew indicated he would do so.

3. CAB Vote on Resignation of Carla Casler and Discussion of CAB Member Judy Burns

Ms. Wagenseller stated that she spoke with Carla who said she cannot attend regular meetings. Mr. Garrett Jr. asked for a motion to accept her resignation. It was move by Ms. Cheri Bludau to accept her resignation. Ms. Marcus seconded the motion, motion passed.

4. Nomination of Co-Chairs for Next Term

Mr. Garrett Jr. clarified that only nominations will be done tonight. Ms. Jean Sabo nominated Mr. Jim Garrett Jr. Ms. Janet Marcus suggested Ms. Sabo. Ms. Sabo stated she doesn't have the time that a co-chair should give to the position. Mr. Mark Brusseau nominated Mr. Mike Mahan and Mr. Mahan nominated Mr. Brusseau. There will be a vote at the next meeting.

5. Approval of Minutes for 12/2/2008 and 2/11/09 CAB Meetings

Mr. Garrett Jr. started with 12/2/2008 minutes. Mr. Michael Smith asked for confirmation that the compact disc (CD) that was given to them contained the Final GOU RI Report. Ms. Wagenseller confirmed it did. Mr. Smith discussed the addition of monitoring wells on the western edge of the plume, which was in the minutes, and wondered if the source has been determined, asking whether there is any doubt that the contamination comes from the Broadway-Pantano (BP) site. Ms. Wagenseller replied no and said it will be covered later in the meeting. Mr. Smith motioned to accept the 12.2.2008 minutes. It was seconded by Ms. Jackie Olsen, and the motion passed.

2/11/09 minutes: Ms. Sabo motioned to accept the minutes. Mr. Brusseau seconded the minutes, and the motion passed.

6. Site Update plus Question & Answer

Under the ADEQ and City of Tucson (City) funding agreement, funding for a driller was supplied so the City could install three groundwater monitor wells (WR-704A, WR-703A, WR-702A) west of Western Containment System (WCS). Ms. Wagenseller showed the CAB members the wells on a map. She stated that these wells were installed due to suspicion that the groundwater contamination to the west of the WCS capture zone was not characterized, given that the BP-21 well continued to show contamination. Mr. Jim Murphy asked if there was concern that some contamination had slipped past the WCS. She answered that the City designed the system in late

1990s/early 2000s, under ADEQ oversight. At that time, the westernmost well (that confirms where the plume is) was closed down in 1998 because tetrachloroethene (PCE) had reached 4 parts per billion (ppb).

She continued, stating that an effectiveness evaluation was conducted of the WCS which indicated that the contamination was being pinched, and that the western area of contamination beyond the WCS capture zone was already present prior to WCS installation. Site wide sampling was conducted in Fall 2008. Over next three years, ADEQ did not have budget to do groundwater sampling. During that time, the City of Tucson (City) sampled some wells on a quarterly basis, including the three new ones, BP-21, and the Catalina Village assisted living facility water supply well, which is located near a City well (well available for use; not last on, first off). Sampling results indicate that the westernmost edge of the plume is between the Catalina Village well (which was non-detect for PCE) and the WR-704A well (which contained 10-12 ppb of PCE). Site wide sampling was conducted in Fall 2011 and the results/plumes were shown on a map. Ms. Wagenseller told the CAB that she can provide them with CD copies of the 2011 groundwater monitoring report on CD upon request. She gave a hard copy of the report to Mr. Garrett Jr., who gave it to Mr. Smith.

Ms. Wagenseller continued with her site update by discussing the Finalized GOU RI Report. She stated that several years ago the site was divided into two parts—the GOU and the Landfill Operable Unit (LOU), which includes the sources of the groundwater contamination, that is, the Broadway North Landfill (BNL) and the Broadway South Landfill (BSL). The GOU RI Report was finalized on June 1, 2012 and each CAB member was given a CD. She asked the CAB members to take a look at the Executive Summary and the Response to Comments in Appendices, including CAB comments. Completing the delineation of the lateral and vertical extent of contamination was of concern in the 2007 Draft GOU RI Report, but, with the installation of additional wells since then, this delineation has been completed. Vertical delineation is approximately 100 feet below the water table (approximately 350 ft. below ground surface). Mr. Agnew asked if the finalization of GOU RI Report was officially announced. Ms. Wagenseller answered that a public notice will be released in the next month or so, along with an erratum in front.

Ms. Wagenseller informed the CAB that the St. Joseph's Hospital potable water supply well that had the wellhead treatment system has not been pumping since 2009. The well water contains too much sand and the hospital plans to drill a new well in next year or so.

Ms. Wagenseller then discussed development at the BSL. The two small adjacent parcels located in the northwestern corner of the BSL (southeast corner of Prudence Road and Broadway Boulevard) both went through ADEQ's Voluntary Remediation Program because of planned development. Both parcels had an ADEQ-approved Declaration of Environmental Use Restriction (DEUR) and an associated Engineering Control Plan (ECP) "placed" on them via public recording. Both parcel owners met ADEQ requirements. The owner of the westernmost parcel built a Culver's restaurant and the owner of the adjacent parcel prepared the parcel for future development. The parcel owners also met the requirements of the City of Tucson Landfill Ordinance for methane mitigation and monitoring. [Note—the Culver's restaurant is located

outside the landfill footprint.] If a building structure is planned for construction on the second parcel in the future, the DEUR and ECP will need to be amended and amendment will need to be approved by ADEQ prior to any such development.

Ms. Wagenseller stated the BSL had no changes with regards to development. The owner of most of the BNL parcels submitted Prospective Purchaser Agreement (PPA) applications for the parcels, and ADEQ executed the PPAs in 2009. One of the requirements of the PPAs is for the owner to place DEURs on all of the parcels. As of September 2012, ADEQ still had not received the DEUR paperwork. The delay has been partly due to the economy.

Mr. Garrett Jr. asked if the animal hospital on west side of Broadway and Prudence was part of site. Ms. Wagenseller indicated that it is considered to be in the site only because of the existence of the site groundwater plume more than 350 feet below the building; therefore no investigations are required.

The next topic discussed by Ms. Wagenseller was the methane mitigation system around BSL. Ms. Sabo asked if it was still active, and who's maintaining it. Ms. Wagenseller responded that it's still active and the land owners are maintaining it and submitting quarterly testing results to the Fire Prevention Department as required. Ms. Sabo said she wondered because she has found testing wells collapsed upon themselves. There are new wells now, but wondered what shape they're in (condition of wells), and who's maintaining them. Ms. Wagenseller stated she would look into it and provide an update at the next meeting

Mr. Bruce Prior, Tucson Water Hydrologist, said that the BNL soil vapor extraction (SVE) system was removed a few years ago (Ms. Wagenseller clarified—just the aboveground equipment). Ms. Wagenseller said that deep SVE wells were installed at the BNL in 2000 to extract volatile organic compounds (VOCs), and that over 5,000 pounds of VOCs were removed. Rebound testing has been done every couple of years. The last testing, in 2008, showed a little PCE in a few wells, but not enough to warrant turning the system back on. The test wells still remain and wells will be tested again this year.

Mr. Garrett Jr. clarified the difference between the methane mitigation system and the SVE system. The methane system is located on landfill periphery and the wells are 10-20 feet deep.

Mr. Agnew asked if the BSL system was operating. Ms. Wagenseller said that the Broadway Proper Owner's Association operates it, and that only two landowners are contributing to it. The system goes around the landfill.

Ms. Wagenseller informed the CAB that ADEQ is bidding for a new contractor to take over RI and Feasibility Study (FS) work at the site. The LOU RI field work and report will be completed in Fiscal Year 2013. Ms. Wagenseller stated that after the field data are collected, the contractor will prepare the LOU RI Report. The plan also is to get the LOU RI Land Use Study and Remedial Objectives Report completed.

Ms. Bludau asked about the BNL section behind strip mall (dross area). Ms. Wagenseller responded they have not seen any metals turn up in the groundwater monitor wells. [Note—Metals have not been detected at elevated levels in the BP-9 well immediately downgradient of the dross site.] Also, Ms. Bludau asked about airborne contamination and was told that one part of the dross area covered by the strip mall and asphalt and the other part is covered by a foot of soil and fenced with signs.

Mr. Mahan asked about cost of the work on the BNL. Ms. Wagenseller said state estimate for the site LOU RI work is \$293,000 for this fiscal year. This will go out for bid so the amount is just an estimate.

7. WQARF Program/Budget Status

Mr. William Ellett stated that there was an ADEQ contractor work stoppage about 2.5 years ago and the agency went through some lean times, functioning on half of the normal budget. Regardless, some progress was made, like finishing the GOU RI Report. Going forward, there looks to be more funds and continued progress at this and other Tucson sites.

Mr. Garrett Jr. asked what the budget was in more abundant years, to which Mr. Ellett responded \$12-\$14 million. Mr. Garrett Jr. also asks how sites are prioritized and is it a WQARF Board decision. Mr. Ellett replied that the ADEQ makes the decision.

Ms. Marcus asked how many sites are in Tucson and Mr. Ellett stated seven; seven in Tucson and one in Nogales that is not a WQARF site, but is still being worked on. There are 35 sites statewide.

Mr. Mahan asked where the Broadway-Pantano site falls on the list of priorities. Mr. Ellett replied it is a high priority. The agency just completed the milestone of the GOU RI Report. Ms. Bludau asked, regarding final remedy, do you mean everything is cleaned up, or up to standards. Mr. Ellett explained the WQARF process.

8. Western Containment System – Change of Operation

Mr. Ellett announced that when the WCS first started operating in 2003, one of the extraction wells was extracting groundwater above the standard. [Note—The WCS consists of two extraction wells (R-092A and C-026B) and two injection wells (R-090A and R-091A). The extracted water is put through a granular activated carbon system to remove PCE and other site contaminants of concern, and then the treated water is injected into the aquifer a quarter mile downgradient of the treatment system.] The water being extracted from both extraction wells has met Aquifer Water Quality Standards (and drinking water standards) without treatment for the past several years. Therefore, we decided to look at operation of WCS again this year since operating costs are high and there is less WQARF budget.

ADEQ met with the City of Tucson Environmental Services and Tucson Water and came up with several groundwater modeling scenarios and they were explained to the CAB. Since there is little or no difference in the modeling results of any of these scenarios in the near term, ADEQ wants to

turn off the system. A letter has been sent to City instructing the City to turn off the WCS at the end of the month.

Enhanced monitoring will be done on a quarterly schedule. ADEQ will make sure funding is in place for continued maintenance of WCS. With the quarterly sampling, if ADEQ sees something of a surprise, we will re-evaluate. Mr. Garrett Jr. asked for annual operating costs for WCS. Mr. Ellett responded, \$250,000 to \$300,000 annually, and electrical costs went up over last few years. The money that could be saved could pay for new wells.

Mr. Murphy asked for figures on efficiency of the WCS over last nine years. Ms. Wagenseller replied that the system pulled out 55 pounds of VOCs, compared to the SVE system that pulled out 1200 pounds over first nine months.

Ms. Bludau asked if the system was any good. Mr. Ellett replied that a lot more is known about the plume. Bioattenuation seems to be going on. The WCS did stop the plume in its tracks. ADEQ thinks almost all of PCE contamination is in the top 100 feet of aquifer. The WCS extraction wells are screened much deeper, so a lot of clean water was being pulled out also. The WCS was never designed as final system, but fulfilled its purpose as containment system. The role it plays in regard to the final remedy will be discussed.

Mr. Bruce Prior stated that Tucson Water has stopped pumping groundwater wells in Central Well Field. The gradient to the west is getting more and more shallow, which has helped attenuate the plume. They have been using Central Arizona Project (CAP) water for potable supply, but if anything happened they would have to turn the Central Well Field wells back on. Mr. Ellett reiterated that enhanced monitoring will be performed and, if there are issues, will meet with Tucson Water and the City.

Mr. Smith asked if vinyl chloride is a bioattenuation product. Mr. Ellett stated it is a breakdown product.

Mr. Mahan asked if there is an estimate of groundwater travel time to extraction wells. Mr. Ellett replied that it is estimated to be one to two feet per day, but, without R-092 pumping, the gradient should flatten out and slow down.

9. Call to the Public

It was asked if the R-092A extraction well will be turned back over to City or kept in limbo. Mr. Ellett replied not for decades. Mr. Prior stated that R-092A well was never used for potable supply well.

A resident also inquired about R-090A injection well. Ms. Wagenseller said when the WCS wells were designed, they met Tucson Water specifications so they could be used by Tucson Water in the future, if needed. That may not happen for a long time.

10. Next Meeting Date/Agenda Discussion

Ms. Wagenseller reported there will be two public comment periods and a public meeting required for the finalization of the LOU RI Report; therefore, two more meetings may be needed. Mr. Garret Jr. asked about another meeting before the end of the year. Ms. Wagenseller stated January was better due to the new contractor start date.

The next meeting of the Broadway-Pantano CAB will tentatively be held on **Tuesday, January 15, 2012**, from 6:00 p.m. to 8:00 p.m., at Eastside City Hall, Room C, 7575 E. Speedway, Tucson, AZ. Call Delfina Olivarez, ADEQ Community Involvement Coordinator, at (602) 771-4710, or email at dco@azdeq.gov, for meeting information and proposed agenda.

11. Adjournment

The meeting was adjourned at 7:20 p.m.

This meeting was recorded on a digital device as a record of the proceedings. To listen to a recording, or for additional documents mentioned in these minutes, contact ADEQ's Southern Regional Office, Superfund Programs Unit Administrative Staff, 520/628-6715.

Minutes prepared by: Melissa Hayes 9/28/12
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