

**WWE**  
**MEMORANDUM**

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**To:** Big Dry Creek Watershed Association

**From:** Wright Water Engineers, Inc.  
Jane Clary

**Date:** March 24, 2005

**Re:** Minutes for March 22, 2005 Big Dry Creek Watershed Association Meeting

**Meeting Minutes**

**1. Annual Report on 2004 Ammonia and Nitrate Monitoring at Rocky Flats—Bob Fiehweg, Rocky Flats**

Bob Fiehweg provided the fifth and final Rocky Flats annual report on ammonia and nitrate monitoring at Indiana Street. The summary of the data for 2004 and for the past five years are summarized below. Approximately 287 samples were collected over the five year period to support this effort. The Rocky Flats wastewater treatment plant has been demolished and is no longer discharging to Big Dry Creek.

**Table 1.**  
**Rocky Flats Nitrate and Unionized Ammonia Results at Indiana Street**

Summary Statistic	Nitrate (mg/L)		Unionized Ammonia (mg/L)	
	2004	2001-2004	2004	2001-2004
Maximum	3.8	7.40	0.32	0.47
Minimum	0.5	0.00	0.00	0.00
Average	1.4	1.26	0.03	0.035
<b>85th Percentile:</b>	<b>3.3</b>	2.64	<b>0.048</b>	0.069

**2. Pond Reconfiguration and Expected Future Hydrology at Rocky Flats—Bob Fiehweg, Rocky Flats**

Bob Fiehweg provided a photographic slide show of the demolition of buildings at Rocky Flats and work being done in the Walnut and Woman Creek drainages. The hydrology downstream of Rocky Flats will continue to change as a result of removal of impervious surfaces including buildings and roads as well as removal of the wastewater treatment plants discharges. Jane Clary requested information quantifying the projected changes so that this could be included in the on-going hydrologic study being conducted by the Watershed Association.

**3. Annual Report on 2004 Water Quality in Big Dry Creek—Jane Clary, Wright Water Engineers**

Jane Clary distributed a draft memorandum summarizing the annual water quality analysis conducted for Big Dry Creek. This memorandum is available upon request. A few focal points of discussion included:

- Big Dry Creek attained assigned stream standards for all constituents with the exception of one exceedance of the acute dissolved selenium standard.
- The stream currently has temporary modifications assigned for fecal coliform, *E. coli* and selenium. Without the temporary modifications, the stream would not have met the underlying stream standards for *E. coli* or the chronic standard for dissolved selenium. Non-point sources of pollution are believed to be the cause of elevated concentrations for these constituents.
- The Watershed Association is working to develop a better understanding of selenium conditions in the watershed through monthly in-stream sampling and analysis at multiple locations, as well as some preliminary fish tissue sampling and analysis conducted in 2004, which indicated that Big Dry Creek would have difficulty meeting EPA's proposed draft fish tissue criterion for selenium.
- Hydrologic data reviewed showed several extreme storm events during the summer of 2004 that impacted both the upstream and downstream portions of the watershed.

**4. Brief Status Report on Lower Big Dry Creek Hydrologic Study—Jane Clary, Wright Water Engineers**

Jane Clary provided a handout (see Table 2 below) summarizing progress to date on the hydrologic study being conducted in the watershed through support from the cities of Broomfield, Westminster, and Thornton, Weld County and the Colorado Water Conservation Board. Jane also provided a brief slide show of photographs taken in Weld County during field visits in January.

**Table 2. Big Dry Creek Hydrologic Study Progress as of March 21, 2005**

<b>Project Task</b>	<b>% Complete</b>
<b>Task 1: Assess existing conditions/problem areas</b> *Visited and documented Weld County sites, including photos and technical memorandum *Need to visit Adams County sites	70%
<b>Task 2: Assess future conditions/problem areas</b> *Master drainage plans and local criteria reviewed *Hydrologic data obtained *Need to integrate information and draw conclusions	25%
<b>Task 3: Conduct limited literature review and interviews for similar case studies</b> *Literature review almost complete *Phone interviews conducted *Technical memorandum in draft form	80%
<b>Task 4: Develop alternatives including report on problem areas and conceptual-level alternatives for mitigation</b> *Meeting scheduled with municipal representatives in early April	15%
<b>Task 5: Provide final report including recommendations for solutions and stand-alone executive summary</b> *Will be completed in late May	0%

**5. Miscellaneous Business Items**

- The Colorado Watershed Assembly selected the Big Dry Creek Watershed Association as its current “Watershed Spotlight” on its website ([www.coloradowater.org/spotlight.htm](http://www.coloradowater.org/spotlight.htm)), providing a description of the work being completed in the watershed and well as a link to Big Dry Creek’s new website ([www.bigdrycreek.org](http://www.bigdrycreek.org)). Additionally, Big Dry Creek’s Watershed Management Plan is being provided by the Watershed Assembly as an example for use by other watershed groups in Colorado. This Watershed Management Plan was developed following the Colorado Water Quality Control Division’s Watershed Restoration Action Strategy (WRAS) guidelines.
  - The Colorado State Income Tax form has a check-off for contributions to a Watershed Protection Fund. Members were encouraged to be aware of this and contribute if possible, particularly since this is a potential source of grant funding for Big Dry Creek
6. **Next Meeting**—Date to be determined, projected to be late April/Early May. Actual date will be dependent on the hydrologic study progress. Two week notice will be given prior to the meeting.

<b>March 22, 2005 Meeting Attendance (20 attendees)</b>			
<b>Last Name</b>	<b>First Name</b>	<b>Organization Name</b>	<b>Phone</b>
Carter	David	City of Westminster-Public Works & Utilities	(303) 430-2400
Chikuma	Tom	Weld County Landowner	303-659-2822
Clary	Jane	Wright Water Engineers, Inc.	(303) 480-1700
Detra	Earl	DRCOG	(303) 480-6713
Donahue	Brian	City of Westminster	303) 430-2400
Fabisiak	Mary	City of Westminster	(303) 430-2400
Fiehweg	Robert	Fiehweg Env. Consulting	(303) 966-7403
Hand	Brittney	City of Thornton-Water Quality	(303) 255-7773
Henderson-Davis	Sharon	City of Federal Heights	
Ira	Glenda	Adams County Landowner	303-452-2160
Kleeman	Gary	U.S. EPA Region VIII	(303) 312-6246
Mahan	Hallie	City of Broomfield-Environmental Lab	(303) 464-5606
McKee	Bill	Colorado Water Quality Control Division	(303) 692-3583
Rosenbrock	Barbara	Weld County landowners	(303) 659-1987
Skelton	Gary	Wagner Ranch	(303) 637-9626
Smith	Peter	Smith Environmental	(720) 887-4928
Stanley	Shelley	City of Northglenn	(303) 450-8905
Stover	John	U.S. Department of Energy/RFFO	(303) 966-9735
Sturgeon	Becky	City of Broomfield	(303) 464-5648
Vergara	Gabrielle	Weld County	(970) 304-6415