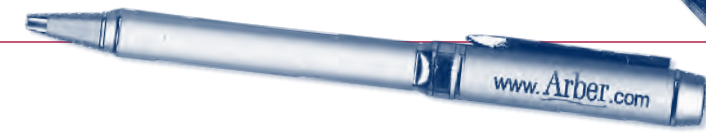


Wastewater Preliminary Effluent Limits (PELs)

Category 40 - Individual Permits		
Subcategory	Design Capacity	Fee
1	0 to 99,999 gpd	\$2,100
2	100,000 to 999,999 gpd	\$4,200
3	1,000,000 to 9,999,999 gpd	\$6,300
4	10,000,000 gpd or more	\$8,400

Category 41 - General Permits		
Subcategory	Design Capacity	Fee
1	0 - 1,000,000 gpd	\$1,050

Note: Flow in gallons per day (gpd) is design capacity, not current flow.



Category 42 - Discharges to Groundwater		
Subcategory	Design Capacity	Fee
1	0 to 999,999 gpd (Minor)	\$525
2	1,000,000 gpd or more (Major)	\$840

Category 43 - Individual Permits (Professionally Prepared by Others)		
Subcategory	Design Capacity	Fee
1	0 to 999,999 gpd (Minor)	\$1,575
2	1,000,000 gpd or more (Major)	\$3,150

Wastewater Design Review

Category 45 - Wastewater Treatment Plants			
Subcategory	Design Capacity	Type	Fee
1	0 to 99,999 gpd	New	\$4,900
		Expansion	\$3,900
2	100,000 to 999,999 gpd	New	\$9,900
		Expansion	\$7,900
3	1,000,000 to 9,999,999 gpd	New	\$14,800
		Expansion	\$11,800
4	10,000,000 gpd or more	New	\$19,700
		Expansion	\$15,800

Category 45 - Wastewater Lift Stations			
Subcategory	Design Capacity	Type	Fee
5	0 to 99,999 gpd	New	\$1,200
		Expansion	\$1,000
6	100,000 to 999,999 gpd	New	\$2,500
		Expansion	\$2,000
7	1,000,000 to 9,999,999 gpd	New	\$3,700
		Expansion	\$3,000
8	10,000,000 gpd or more	New	\$4,900
		Expansion	\$3,900

Category 45 - Amendment (Gas to Liquid Chlorination or Any Form of Chlorination to Ultraviolet Light Disinfection)		
Subcategory	Design Capacity	Fee
9	0 to 99,999 gpd	\$500
10	100,000 to 999,999 gpd	\$1,000
11	1,000,000 to 9,999,999 gpd	\$1,500
12	10,000,000 gpd or more	\$2,000

Category 45 - Other Amendments		
Subcategory	Design Capacity	Fee
13	0 to 99,999 gpd	\$700
14	100,000 to 999,999 gpd	\$1,400
15	1,000,000 to 9,999,999 gpd	\$2,100
16	10,000,000 gpd or more	\$2,800

Category 45 - Individual Sewage Disposal Systems		
Subcategory	Type	Fee
17	Individual Sewage Disposal Systems	\$3,000

Category 45 - Interceptor / Outfall Sewers		
Subcategory	Type	Fee
18	Interceptors	\$1,400
19	Outfall Sewers	\$1,400

Note: Flow in gallons per day (gpd) is design capacity, not current flow.

Engineer Recognized



Jamie Eichenberger, E.I. was inducted into the Select Society of Sanitary Sludge Shovelers (5S) at the Rocky Mountain American Water Works Association / Rocky Mountain Water Environment Association 2007 Joint Annual Conference. Induction into the 5S group included the presentation of a "Golden Shovel" to recognize "outstanding, meritorious service above and beyond the call of duty."

The Select Society of Sanitary Sludge Shovelers (5S) is used by the RMWEA to honor those who have made a particular contribution to the industry. The original Chapter of the Five S Society was formed in Arizona in October 1940. The idea was conceived by A.W. "Dusty" Miller and F. Carlyle Roberts, Jr. There are many chapters in the United States and in Canada, as well as in the United Kingdom, Australia and New Zealand.

Jamie, a Project Engineer with the firm, continues his involvement with the RMWEA Executive Committee as Treasurer for 2008. Jamie is currently working on services during construction for the City of Alamosa's Arsenic Treatment Project and planning for the City of Aurora's Reuse Water System Master Plan Project.

20 Years with Arber



Marie Abu-Okal has recently celebrated 20 years with Arber Associates. Marie has served as the backbone of Arber Associates through those years including formatting and editing documents, preparing graphics, answering the telephone, putting up with the engineering staff and on and on. As many can attest, an office typically has one person who is capable of keeping everything together and Arber wishes to thank Marie for her 20 years of exceptional service.

Young Engineers Recognized

Matt Hirschbeck, P.E. and **Ryan Walsh, E.I.** were recognized by the American Council of Engineering Companies (ACEC) of Colorado's as New Faces in Engineering nominees which was held in conjunction with the National Engineers Week's New Faces in Engineering Competition for 2008.

Matt is a Colorado-licensed Professional Engineer with 5 years experience in water and wastewater treatment design. He received his BS in Civil Engineering from Bucknell University and his MS in Environmental Engineering from Yale University. Matt is currently working on the construction administration services for the Town of Frisco's Membrane Water Treatment Plant Project. He is also working on several water and wastewater system projects for the National Park Service in northern California.



Ryan is a design engineer with over 2 years experience in water and wastewater treatment design. He received his BS in Environmental Engineering from the University of Florida and his MS in Environmental Science and Engineering from the Colorado School of Mines. Ryan is a licensed Engineer Intern in Colorado. He is currently working on the Process Performance Audit for the Stonegate Village Metropolitan District Wastewater Treatment Plant and the Operation and Maintenance Manual for the Lone Tree Creek Water Reuse Facility.



Arber

Water, Wastewater & Reuse Engineers



Providing
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Lakewood, CO 80228

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WATER WASTEWATER REUSE NEWS

SPRING 2008

Have You Received a Bill From The State Recently?

The Colorado Department of Public Health and Environment (CDPHE) Water Quality Control Division (WQCD) has begun assessing fees for the review of water and wastewater projects. Fees are assessed for preliminary effluent limit (PEL) requests, site application reviews, water and wastewater design reviews, discharge permit amendments, as well as for continuation of annual operating permits.

House Bill 07-1329, signed by Governor Ritter

on May 30, 2007, allowed the fees to become effective on July 1, 2007. The fees vary according to system type, source of water, and population served or flow. Application review fees must be paid at the time of the request to the CDPHE.

An excerpt from the approved schedule of fees, itemized by category, is provided here for reference. The schedule of fees will be adjusted by CDPHE and should be reviewed at the time of application.

For a full list of categories please see House Bill 07-1329 at [http://www.leg.state.co.us/Clics/Clics2007A/csl.nsf/fsbillcont3/368C89516F927ECC8725728B006538A4?Open&file=1329 enr.pdf](http://www.leg.state.co.us/Clics/Clics2007A/csl.nsf/fsbillcont3/368C89516F927ECC8725728B006538A4?Open&file=1329%20enr.pdf)

Drinking Water Annual Fee

Category 01 - Community Surface Water Systems		
Subcategory	System Population	Fee
1	25 to 250	\$75
2	251 to 500	\$100
3	501 to 1,000	\$310
4	1,001 to 3,300	\$465
5	3,301 to 10,000	\$865
6	10,001 to 30,000	\$1,850
7	30,001 to 100,000	\$4,940
8	100,001 to 200,000	\$9,270
9	200,001 to 500,000	\$15,450
10	Greater than 500,000	\$21,630

Category 02 - Community Groundwater Systems		
Subcategory	System Population	Fee
1	25 to 250	\$75
2	251 to 500	\$100
3	501 to 1,000	\$220
4	1,001 to 3,300	\$310
5	3,301 to 10,000	\$680
6	10,001 to 30,000	\$1,545
7	Greater than 30,000	\$4,450

Category 06 - Water Treatment Plants		
Subcategory	Discharge Type	Fee
1	Intermittent discharge	\$570
2	Routine discharge	\$820

Category 07 - General Permits		
Subcategory	General Permit Type	Fee
6	Water Treatment Plants - Intermittent Discharge	\$475
7	Water Treatment Plants - Routine Discharge	\$715
24	Discharges With Treated Water Distribution System Populations Less Than or Equal to 3,300	\$105
25	Discharges With Treated Water Distribution System Populations From 3,301 up to 9,999	\$210
26	Discharges With Treated Water Distribution System Populations Greater Than or Equal To 10,000	\$315

Continued inside

Arber

Water, Wastewater & Reuse Engineers

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Water Permit Approvals

Category 06 – Water Treatment Plants		
Subcategory	Discharge Type	Fee
1	Intermittent Discharge	\$570
2	Routine Discharge	\$820

Category 25 – Permit Amendments		
Subcategory	Amendment Type	Fee
1	Minor - An Amount equal to 25% of the Annual Fee for the Permit Being Amended, but Not To Exceed	\$2,810
2	Major - An Amount Equal to 55% of the Annual Fee for the Permit Being Amended, but Not To Exceed	\$5,950

Notes:

1. Category 25 – Permit Amendments apply to permittees holding a permit issued under any of categories 1 to 24 or 26 to 46 whom request an amendment to said permit.

Wastewater Annual Fees

Category 34 – Domestic Wastewater Lagoons		
Subcategory	Design Capacity	Fee
1 to 4	0 to 999,999 gpd	\$75
5	1,000,000 to 2,499,999 gpd	\$81
6	2,500,000 gpd or over	\$94

Note: Flow in gallons per day (gpd) is design capacity, not current flow.

Category 21 – Domestic Mechanical Wastewater Plants		
Subcategory	Design Capacity	Fee
1-5	0 to 999,999 gpd	\$75
6	1,000,000 to 2,499,999 gpd	\$81
7	2,500,000 to 9,999,999 gpd	\$94
8	10,000,000 to 49,999,999 gpd	\$105
9	50,000,000 to 99,999,999 gpd	\$117
10	100,000,000 gpd or over	\$128

Wastewater Site Applications

Category 44 – Wastewater Treatment Plants			
Subcategory	Design Capacity	Type	Fee
1	0 to 100,000 gpd	New	\$7,738
		Expansion	\$6,191
2	100,000 to 999,999 gpd	New	\$15,477
		Expansion	\$12,381
3	1,000,000 to 9,999,999 gpd	New	\$23,215
		Expansion	\$18,572
4	10,000,000 gpd or more	New	\$30,953
		Expansion	\$24,763

Category 44 – Amendment (Gas to Liquid Chlorination or Any Form of Chlorination to Ultraviolet Light Disinfection)		
Subcategory	Design Capacity	Fee
9	0 to 100,000 gpd	\$451
10	100,000 to 999,999 gpd	\$903
11	1,000,000 to 9,999,999 gpd	\$1,354
12	10,000,000 gpd or more	\$1,806

Category 44 – Other Amendments		
Subcategory	Design Capacity	Fee
13	0 to 100,000 gpd	\$645
14	100,000 to 999,999 gpd	\$1,290
15	1,000,000 to 9,999,999 gpd	\$1,935
16	10,000,000 gpd or more	\$2,579

Category 44 – Individual Sewage Disposal Systems		
Subcategory	Type	Fee
17	Individual Sewage Disposal Systems	\$4,500

Category 44 – Wastewater Lift Stations			
Subcategory	Design Capacity	Type	Fee
5	0 to 100,000 gpd	New	\$1,935
		Expansion	\$1,548
6	100,000 to 999,999 gpd	New	\$3,869
		Expansion	\$3,095
7	1,000,000 to 9,999,999 gpd	New	\$5,804
		Expansion	\$4,643
8	10,000,000 gpd or more	New	\$7,738
		Expansion	\$6,191

Category 44 – Interceptor / Outfall Sewers		
Subcategory	Type	Fee
18	Extensions	\$650
19	Interceptors Site Applications	\$1,300
20	Interceptor Certifications	\$300
21	Outfall Sewers	\$1,300

Note: Flow in gallons per day (gpd) is design capacity, not current flow.



Wastewater Annual Permit Fees

Category 20 – Domestic Wastewater Lagoons		
Subcategory	Design Capacity	Fee
1	0 to 49,999 gpd	\$525
2	50,000 to 99,999 gpd	\$845
3	100,000 to 499,999 gpd	\$1,230
4	500,000 to 999,999 gpd	\$2,120
5	1,000,000 to 1,999,999 gpd	\$3,170
6	2,000,000 gpd or over	\$6,460

Note: Flow in gallons per day (gpd) is design capacity, not current flow.

Category 21 – Domestic Mechanical Wastewater Plants		
Subcategory	Design Capacity	Fee
1	0 to 19,999 gpd	\$615
2	20,000 to 49,999 gpd	\$980
3	50,000 to 99,999 gpd	\$1,440
4	100,000 to 499,999 gpd	\$2,240
5	500,000 to 999,999 gpd	\$3,720
6	1,000,000 to 2,499,999 gpd	\$6,090
7	2,500,000 to 9,999,999 gpd	\$11,410
8	10,000,000 to 49,999,999 gpd	\$19,780
9	50,000,000 to 99,999,999 gpd	\$22,820
10	100,000,000 gpd or over	\$25,100

Category 22 – General Permits (Domestic Facilities Discharging to Unclassified Waters)		
Subcategory	Design Capacity	Fee
1	0 to 49,999 gpd	\$455
2	50,000 to 199,999 gpd	\$800
3	200,000 to 599,999 gpd	\$1,170
4	600,000 to 999,999 gpd	\$1,860

Wastewater Permit Approvals

Category 25 – Permit Amendments		
Subcategory	Amendment Type	Fee
1	Minor - An Amount equal to 25% of the Annual Fee for the Permit Being Amended, but Not To Exceed	\$2,810
2	Major - An Amount Equal to 55% of the Annual Fee for the Permit Being Amended, but Not To Exceed	\$5,950

Notes:

1. Category 25 – Permit Amendments apply to permittees holding a permit issued under any of categories 1 to 24 or 26 to 46 whom request an amendment to said permit.
2. Flow in gallons per day (gpd) is design capacity, not current flow.

ARBER PROJECT UPDATE ARBER PROJECT UPDATE ARBER PROJECT UPDATE ARBER PROJECT UPDATE ARBER PROJECT UPDATE ARBER PROJECT UPDATE ARBER PROJECT UPDATE ARBER PROJECT UPDATE

Arapahoe County Water & Wastewater Authority Cottonwood Water and Sanitation District Joint Water Purification Project (JWPP)

Weaver General Construction Company began construction of the ACWWA/CWSD's indirect potable reuse water treatment plant in February 2008. The JWPP incorporates a 12 mgd reverse osmosis (RO) system followed by advanced oxidation with ultraviolet (UV) and hydrogen peroxide. A microfiltration facility will provide removal of phosphorus from the RO concentrate stream. Arber will provide construction administration services for this \$26.5 million water treatment project. Construction is anticipated to be completed in October 2009.



City of Alamosa, Colorado Arsenic Treatment Project

Construction of the City's arsenic treatment plant is approximately 80% complete. Construction is expected to be completed in the summer of 2008 with the facility in operation in the fall. Moltz Construction, Inc. has completed the water treatment plant building and is currently completing installation of piping and process equipment included with the membranes provided by GE Water & Process Technologies (Zenon Membrane Solutions). Arber continues to provide services during construction for this \$10 million membrane water treatment plant.



Arapahoe County Water & Wastewater Authority Lone Tree Creek Water Reuse Facility

Construction of the ACWWA's Lone Tree Creek Water Reuse Facility is approximately 85% complete. Glacier Construction Co. has completed the construction of the liquid portion of the biological nutrient removal (BNR) and advanced water treatment portions of the reuse facility. Operation of these facilities is currently under way. Construction of the solids handling facilities is expected to be completed and in operation in August 2008. Arber continues to provide services during construction for this \$29 million wastewater treatment facility expansion project.



Town of Eagle, Colorado Wastewater Treatment Plant Expansion

Construction of the Town's wastewater treatment facility expansion project began in August 2007. Weaver General Construction Co. has completed construction of the majority of the concrete work associated with the new waste activated sludge (WAS) storage tanks, clarifier and headworks structures. Construction of the facility is anticipated to be completed in February 2009. Arber continues to provide services during construction for this \$15 million wastewater treatment facility expansion project.



City of Aurora, Colorado Reuse Water System Master Plan Update

Arber continues to work on the Reuse Water System Master Plan Update for the City of Aurora. The master plan will optimize the existing reuse system supplied by the Sand Creek Water Reuse Facility through operational modifications, addition of storage and identification of additional demands. The project, which will evaluate the potential for raw water delivery in the eastern part of the City, is anticipated to be completed in the summer of 2008.

