COLORADO
Department of Public Health & Environment

Dedicated to protecting and improving the health and environment of the people of Colorado

For Division Use Only
Permit # CO_____
Date Received

COLORADO DISCHARGE PERMIT SYSTEM (CDPS)

CPDS DOMESTIC WASTEWATER TREATMENT PLANT PERMIT APPLICATION

PHOTO COPIES, FAXED COPIES, PDF COPIES, or EMAILED COPIES WILL NOT BE ACCEPTED

Please print or type. Original signatures are required. This application must be considered complete by the Division prior to initiation of permit processing. The Division will notify you if additional information is needed to complete the application. (If more space is required to answer any question, please attach additional sheets to the application form.) Applications must be submitted by mail or delivered to: **Colorado Department of Public Health and Environment**
Water Quality Control Division
4300 Cherry Creek Drive South
WQCD-P-B2
Denver, Colorado 80246-1530

Any additional information that you would like the Division to consider in developing the permit should be provided with the application. Examples include data and/or modeling regarding receiving water characteristics, data and/or modeling regarding effluent characteristics, and planned pollutant removal strategies and their implementation timeframe. Please indicate any types of additional information that are provided with this application below.

PERMIT INFORMATION Applicant is: ☒ Property Owner ☐ Contractor/Operator
Reason for Application: ☐ NEW ☒ RENEW EXISTING PERMIT or CERT # CO-0037311

☒ Application is for an **Individual Permit**

Application is for a **General Permit** - Preliminary Effluent Limit approved the following general permit:

☐ COG588000 WWTF With Chronic Low Flow Design 100:1

☐ COG589000 WWTF

Received
SEP 30 2019
Water Quality Control

☒ **For Surface Water Discharge complete this form up to and including Section IX, as required.**

For Ground-Water Discharge:

☐ Impoundment Complete all sections and APPENDICIES D & D-1;

☐ Land Application Complete pages 1-8 and one copy only of SECTION IX, APPENDICIES D & D-2;

☐ Septic System > 2000 gpd Complete all sections and APPENDICIES D & D-3.

If both surface water and ground water discharge are checked, then complete the following questions: Complete all sections and, APPENDIX D and the appropriate subsection (D-1, D-2 D-3).

A. Contact Information

Permittee (If more than one please add additional pages)

Organization Formal Name: Eagle River Water and Sanitation District

1. **Permittee** the person **authorized to sign and certify** the permit application. This person receives all permit correspondences and is **legally responsible** for ensuring compliance with the permit.

Responsible Position (Title): Director of Operations

Currently Held By (Person): Siri Roman, P.E.

Telephone No: 970-477-5100

email address sroman@erwsd.org

Mailing Address: 846 Forest Road

City: Vail State: Colorado Zip: 81657

This form must be signed by the Permittee to be considered complete.

Per Regulation 61: In all cases the permit application shall be signed as follows:

a) In the case of corporations, by a responsible corporate officer. For the purposes of this section, the responsible corporate officer is responsible for the overall operation of the facility from which the discharge described in the application originates.

b) In the case of a partnership, by a general partner.

c) In the case of a sole proprietorship, by the proprietor.

d) In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official

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2. **DMR Cognizant Official (i.e. authorized agent)**—the person or position authorized to **sign and certify** reports required by permits including Discharge Monitoring Reports [DMR's], Annual Reports, Compliance Schedule submittals, and other information requested by the Division. The Division will send pre-printed reports (e.g. DMR's) to this person. If more than one, please add additional pages ☐ **Same as Permittee Item 1**

Responsible Position (Title): Edwards Supervisor, ERWSD

Currently Held By (Person): Parker Newbanks, III

Telephone No: 970-476-7480

Email address pnewbanks@erwsd.org

Organization: Eagle River Water & Sanitation District

Mailing Address: 846 Forest Road

City: Vail State: Colorado Zip: 81657

Per Regulation 61: All reports required by permits, and other information requested by the Division shall be signed by the permittee or by a duly authorized representative of that person. A person is a duly authorized representative only if:
(i) The authorization is made in writing by the permittee;
(ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be
either a **named individual** or any individual occupying a named position); and
(iii) The written authorization is submitted to the Division.

3. **Site/Local Contact**—contact for questions regarding the facility & discharges authorized by this permit

☐ **Same as Permittee—Item 1**

Responsible Position (Title): Edwards Supervisor

Currently Held By (Person): Parker Newbanks, III

Telephone No: 970-476-7480

Email address pnewbanks@erwsd.org

Organization: Eagle River Water & Sanitation District

Mailing Address: 846 Forest Road

City: Vail State: Colorado Zip: 81657

4. Certified Operator in Responsible Charge (ORC) may designate one or both if needed

A. Wastewater Treatment Facility ORC

Operator ID Number: 1730

Operator's legal name: Parker Newbanks, III

Telephone No: 970-476-7480

Email address pnewbanks@erwsd.org

Organization: Eagle River Water & Sanitation District

Mailing Address: 846 Forest Rd.

City: Vail State: Colorado Zip: 81657

B. Wastewater Collection System ORC

Operator ID Number: 14182

Operator's legal name: Michael A. Thompson

Telephone No: 970-477-5426

Email address mthompson@erwsd.org

Organization: Eagle River Water & Sanitation District

Mailing Address: 846 Forest Rd.

City: Vail State: Colorado Zip: 81657

5. Billing Contact (if different than the permittee)

Responsible Position (Title): Director of Operations
Currently Held By (Person): Siri Roman, P.E.
Telephone No: 970-477-5100
Email address sroman@erwsd.org
Organization: Eagle River Water & Sanitation District
Mailing Address: 846 Forest Rd.
City: Vail State: Colorado Zip: 81657

6. Other Contact Types (check below)

Responsible Position (Title): See attached
Currently Held By (Person): _____
Telephone No: _____
Email address _____
Organization: _____
Mailing Address: _____
City: _____ State: _____ Zip: _____

- ☐ **Pretreatment coordinator**
- ☐ **Environmental Contact**
- ☐ **Biosolids Responsible Party**
- ☐ **Property Owner**
- ☐ **Inspection Facility Contact**
- ☐ **Consultant**
- ☐ **Compliance Contact**
- ☐ **Stormwater MS4 Responsible Person**
- ☐ **Stormwater Authorized**
- ☐ **Representative**
- ☐ **Other** _____

Add pages if necessary

See Attachment 1: Supplemental Contact Information

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B. Permitted Project/Facility Information

1. Project/Facility Name Edwards WWTF

Street Address or cross streets 3101 Lake Creek Village Dr.

City, State and Zip Code Edwards, CO 81632 County Eagle

Type of Facility Ownership

☐ City Government ☐ Corporation ☐ Private ☒ Municipal or Water District

☐ State Government ☐ Mixed Ownership _____

Directions from nearest major cross streets

From the Edwards Rte 6/Access Rd Intersection: Go west on hwy 6 for 2 miles, turn right onto Hillcrest Dr., go over the Eagle River and take immediate right onto Lake Creek Village Dr, go East for 200yds and turn left into Edwards WWTF (3101 Lake Creek Village Dr.)

2. **Facility Latitude/Longitude**—List the latitude and longitude of the excavation(s) resulting in the discharge(s). If the exact excavation location(s) are not known, list the latitude and longitude of the center point of the construction project. **If using the center point, be sure to specify that it is the center point of construction activity.**

001A Latitude _. 39.65432 Longitude _ . -106.62692 (e.g., 39.70312°, 104.93312°')
degrees (to 5 decimal places) degrees (to 5 decimal places)

Horizontal Collection Method ☒ GPS unspecified ☐ Interpolation map Map scale number _____

Reference Point ☒ Project/Facility entrance ☐ Project/Facility center (Centroid)

Horizontal accuracy measure +/- 30 feet (WQCD Requires use of NAD83 Datum for all references)

C. Service Area and Population

Location Map Defining the legal boundaries of the service area. A north arrow shall be shown.
This map must be on paper 8-1/2 x 11 inches. See Attachment 2

Breakdown of Number and Type of existing taps in the Service Area

Type of Tap	Number	Description (attach list if necessary)	Total Estimated Flow
Residential	3554	Single-Family Residences, Multi-Family residences, Townhomes, Condominium Complexes, Hotel Rooms, Apartments I	1.13 MGD
Industrial	1	Drinking Water Facility	0.029 MGD
Commercial	147	Gas Stations, Restaurants, Public Restrooms, Retail, Public Use Facilities, Laundry Mats, Irrigation	0.154 MGD
Other: Specify	19	Mixed Use: Buildings containing residential and commercial usage through one meter; Hotels with restaurants and or reta	0.071 MGD

All facilities with a design flow of 1 MGD or greater shall provide a list of non-residential customers which includes the name, address and type of business. See Attachment 3: Non-residential Customers

Population of Service Area 9,507 population See Attachment 4 : Edwards Service Area Population Estimate

Municipalities or Areas Served

Identify any agreements, for the acceptance and treatment of wastewater, with connector systems, districts, subdivisions, counties, cities, or other agencies or persons within or outside the defined service area.

None.

D. Flows and Discharges

Influent Flows: Provide the following data on influent flows to the facility during the past calendar year. Effluent flow data may be substituted where that is no influent flow measuring and recording or totalizing device.

Average daily flow (MGD) during the three minimum flow months. month Oct-18 month Mar-18 month May-18
flow 0.87 flow 0.84 flow 0.79

Average daily flow (MGD) during the three maximum flow months. month Dec-18 month Aug-18 month July-18
flow 1.13 flow 1.11 flow 1.06

Maximum peak hourly flow (MGD) Not Available

Surface Water Discharge Points indicate the type of discharge (continuous, intermittent, seasonal, etc.), legal description (1/4 of 1/4 Section, Township, Range) and the name and description of the receiving water

Outfall Number	Legal Description (T, R, S, 1/4, 1/4)	Typical Months Of Discharge	Receiving Water	Latitude/Longitude	Method Used **
001A	T4S,R82W,SEC 31,SW 1/4, SW 1/4	Continuous	Eagle River	Latitude 39.65432 Longitude -106.62692	Map

** Horizontal Collection Method: GPS Unspecified or Interpolation - Map
Horizontal Accuracy Measure (WQCD Requires use of NAD83 Datum for all references) Horizontal Accuracy Measure +/- 30 feet

Will the discharge go to a ditch storm sewer, or any other type of conveyance? _____ **YES** X **NO**

If YES include

- o any agreement with the ditch owner which authorizes the discharge
- o the notification to the owner that this application is being made and a copy sent to the Division.

Does facility accept septage? _____ **YES** X **NO**

If YES, provide description of procedures and quantities. (attach additional pages if necessary)

Will land application of any wastewater be practiced? _____ **YES** X **NO**

If YES Provide the information requested in Appendix D and D-2.
The Division may request additional information before the permit can be issued.

Bypassing and Overflow Points for Surface Water discharges and for Ground-Water discharges, as appropriate.

A. On a separate sheet, provide a diagram/map illustrating 1) the location of any bypass and/or constructed overflow point(s), 2) the receiving water, and 3) a description of any bypass and/or constructed overflow point(s) at the treatment facility that are not described in a current permit for the facility. Also provide this information for any lift station or any point in the collection system. N/A

B. Include a general discussion of what conditions would cause a discharge from any such point to occur. N/A

Location Map Defining the facility property and discharge points. A north arrow shall be shown. Any public water supply intakes within a 5 mile radius of the facility shall also be identified. **This map must be on paper 8-1/2 x 11 inches.** See Attachment 5

Diagram of the site showing appurtenant facilities . (buildings, ponds, diversion ditches, treatment processes, etc.), the stream location, numbered discharge points, influent monitoring and effluent compliance sampling points, bypass points and flow monitoring points. **This map must be on paper 8-1/2 x 11 inches.**

A separate treatment process flow schematic may also be submitted. See Attachment 6

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E. Receiving Water Information

Provide a copy of any studies or other analyses which you feel may help the Division in its development of effluent limitations for your facility. This would include sampling data for pH and temperature, instream sampling and analyses upstream or downstream of the discharge, modeling results, or data for other parameters not currently required by your permit.

Is additional data being submitted for the following categories?

Effluent Data ☑ YES ☐ NO *Effluent flow data*

Sample Upstream of the discharge point ☑ YES ☐ NO

Sample downstream of the discharge point ☐ YES ☑ NO

IF YES for any of these, please submit data on a CD in an excel spreadsheet format.

F. Treatment Facilities and Sewer System

Treatment Facility Design Capacity

A. Provide design calculations and other engineering data which define the organic and hydraulic capacity of each unit process and the facilities as a whole. If this information was provided with the application for an existing permit, then provide information on any changes or additions at the facility since that time. Plans and specifications and engineering design studies must be certified by a registered professional engineer.

B. When did the facility first begin operating? 1982

C. If this is a lagoon system, please provide verification that the lagoons are lined and provide information pertaining to the liner. Do these lagoons meet the allowable seepage rate requirement of less than or equal to 1 x 10-6 cm/sec? If the lagoons do meet the allowable seepage rate, please submit documentation showing this information. (Also, see Appendix D and D1 of this application.) N/A

D. Has there been an expansion or rerating of the facility since the last permit was issued? X YES ____ NO

E. Date(s) and Number(s) of the original **site approval** for the facility and any amendments. 6/27/14, Site Approval #4365

Collection System-Infiltration/Inflow

A. Does the 30-day average flow to the facility exceed 120 gallons/capita-day during any month? ☐ YES ☑ NO
If so, attach a discussion of the extent of the problems (quantities, sources, etc.) and any ongoing or proposed correction programs (including scope and budget of programs). Attach a copy of the pertinent portions of any I/I studies which have been completed. See Attachment 7

B. Attach a description of any ongoing sewer system maintenance/repair/rehabilitation programs. See Attachment 7

C. Attach a description of any ongoing interceptor flow monitoring programs if such data is collected. Include a description of monitoring techniques, the locations of monitoring points and any pertinent data. See Attachment 7

Improvements Are any facility or collection system (I/I reduction) expansions or improvements planned during the next five years? If so, describe the extent of the expansions/improvements and list any proposed schedules for planning, design and construction. See Attachment 7

F. Treatment Facilities and Sewer System (cont)

Lift Stations Provide the following information for all lift stations in the service area:

Lift Station Name/No.	Wet Well Volume	# of Pumps and Capacities (gpm and Hp)	Current Peak Daily Flow (MGD)
Wildridge #5	3,895 Gallons	2 PUMPS 196 GPM 50HP	0.014
Wildridge #6	3,449 Gallons	2 PUMPS 196 GPM 60HP	0.004
Stillwater #7	1,400 Gallons	2 PUMPS 35 GPM 2HP	0.26

Include a map that shows the locations of the lift stations. The service area map requested in Item 4 of this application may be used in place of a separate map. See Attachment 8

Describe the emergency systems in place (alarms, dual grid power feed, generators, holding ponds, etc.) which will be used to prevent a discharge from any lift station. *To prevent a discharge from any of our lift stations: all lift stations have alarms, backup power supplies, and Chatterbox emergency call out systems.*

G. Operation and Management

***Provide the following information for the facility.** A current plan of operation which includes this information may be substituted.

A. A copy or description of the staffing plan for the facility, including the number of operators and their certification levels, and operating personnel coverage of the facility during weekdays, weekends, and holidays. See Attachment 9

B. A discussion or outline of the emergency response program used at the facility. This discussion should include:

1. A description of alternate power sources.
2. A discussion of alarm systems installed at the facility, including any remote transmission of alarms.
3. A description of the chain of command in emergency situations.
4. Provide any other information for emergency response.

See Attachment 10

Provide these details on separate sheets. If information is not available for any of these items please indicate that this is the case and provide a brief explanation of why the item cannot be discussed or described.

C. Attach a list of any chemicals which are used in the operation of the treatment facility. This includes chemicals added directly to the treatment process (chlorine, copper sulfate, other algicides, alum, etc.) as well as chemicals which are used adjacent to unit processes (ponds, basins, etc.) which may be carried into the treatment system by storm events, snowmelt, etc. MSDS sheets shall be included for any name-brand (Aquashade, Round-Up, etc.) products

See Attachment 11

Monitoring & Testing

D. Describe the method of flow measurement for the influent flow to the facility and for each discharge (i.e., V-notch weir, 3- inch Parshall flume, calibrated pumping rate with run-time meter, none, etc.). Also, describe the "range" (minimum- maximum) of any flow metering and recording equipment associated with these devices.

Monitoring Point	Type of Device	Size	Range of Flows Measured	Type of Recorder/ Meter (if any)
300 I (influent)	Parshall Flume	9"	0 - 5.7 MGD	Ultrasonic Flow Meter - Continuous Trend
001A (effluent)	CIPOLLETTI WEIR	90' V-NOTCH WEIR	0 - 4.0 MGD	Ultrasonic Flow Meter - Continuous Trend

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G. Operation and Management (cont)

E. Describe procedures and tests used to determine the accuracy of the flow measuring and recording devices and note how often the devices are calibrated.

Device	Method	Frequency
Calibrated by Browns Hill Engineering & Controls	Ultrasonic Flow Method	Annually

F. Attach a description of approved analytical procedures which are used, or will be used, for analyzing each influent and effluent parameter in order to meet the reporting requirements of the permit. Also, describe the location where each analysis is or will be completed and the requirement used for each method not done in the lab. (i.e., BOD_5-Method 5210B from Standard Methods, etc.) Is a commercial or other WWTP laboratory used? If so, identify the laboratory and submit their analytical methods for each parameter. See Attachment 12

G. **GROUNDWATER applicant is required to identify which **total coliform** analytical method will be used at the laboratory performing sample analyses. The analytical methods for total coliform are found in the Eighteenth Edition (or newer) of "Standard Methods for the Examination of Water and Wastewater". The choices of total coliform methods are as follows:

Membrane Filter Technique (Method 9222B) N/A or

Multiple Tube Fermentation Technique (Method 9221B) N/A

If this application is for renewal of an existing permit and any violations of effluent limits occurred during the period of such a permit, are there any administrative, design, operational, or financial deficiencies which would prevent the applicant from eliminating such violations prior to the issuance of the renewal permit?

____ YES X NO

The applicant shall answer yes if any such deficiencies were previously identified (engineering report, Division inspection, etc.) and have not been eliminated at this time.

If the answer to the above question is yes, then a written report must be included which describes how and when the deficiencies will be eliminated.

H. Biosolids Handling - Beneficial Use or Disposal

- If facility is a lagoon, last time solids were removed? N/A Month N/A Year

  Will biosolids be removed within the next 1-5 years? N/A YES N/A NO

  Anticipated date of removal: N/A Year

- For a mechanical facility, please attach a short narrative description of the type of treatment (i.e. Class A or Class B), beneficial use (i.e. land application, composting) as described in EPA 503 Regulations/Colroado Biosolids Regulations #64, or disposal method(s) (i.e. landfill, transported to another facility) which are to be utilized.

- Are biosolids being stored at the facility? ____ YES X NO For how long?_____

- Will a contract hauler be utilized?

  If yes, please give name and frequency used. N/A

- Please attach a short narrative description on contingency plan for biosolids beneficial use and or disposal practice(s). See Attachment 13

- Describe the handling and final disposal method of screenings, grit and any other similar types of material at the facility (i.e. landfill, surface disposal, certificate of designation, storage).

  See Attachment 13

I. Industrial Contributors and Pretreatment

- Are industrial wastes, which contain any of the toxic pollutants or hazardous substances listed in Appendix A or B or are from any categorical industry listed in Appendix C, discharged to the sewer system?

  _____ YES X NO

- Are there any facilities for acceptance of wastes, other than domestic septage, by rail, truck or dedicated pipeline?

  _____ YES X NO

- If the answers to these questions are no, then answer question B. only.

A. On a separate sheet, list any of the pollutants found in Appendix A and B which you know or have reason to believe are present in or may be present in the influent to the facility. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data (influent or effluent) in your possession (use separate sheets). If this information has been previously submitted to the Division, please indicate the date of the submittal and who in the Division it was sent to.

B. Has a list of industrial contributors, including both those referenced in Appendix C and any non-categorical industries, been previously submitted?

   _____ YES X NO

   Identify any industries contributing industrial process wastewater that were not covered by previous submittals.

   Provide procedures for identifying new industrial/commercial dischargers.

C. Has an assessment of the quantity and quality of any industrial process wastewater contribution been previously submitted?

   _____ YES X NO

- If no assessment has been submitted and is presently available, please provide the data on an attached sheet.

- Has any additional data for industrial wastewaters been compiled which was not previously submitted?

  _____ YES X NO If yes, please provide the data on an attached sheet.

- If not previously submitted to the Division, provide the following on separate sheets:

  1. A discussion of pretreatment provided by each significant industrial user and/or specific treatment, if any, provided at the domestic treatment plan for any industrial waste received.
  2. The estimated degree of reduction in the domestic facility of any relevant pollutant listed in Appendices A and B.
  3. A summary or outline of the procedures for monitoring and testing of industrial pollutants generated in the service area.
  4. A copy of any pretreatment ordinances and user charge schedules applicable to industrial contributors.
  5. A discussion of any problems encountered with contributed industrial wastes and how these problems have been handled.

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J. Other Environmental Permits

Does this facility currently have any environmental permits, or is it subject to regulation, under either of the following pr ograms?

Permit Name	Yes	No	Date Applied For	Permit No.
a. Colorado Division of Reclamation, Mining and Safety— permit anniversary:	☐	☐		
b. Underground Injection Control	☐	☐		
c. Clean Water Act (CWA) Section 404 (Army Corps of Engineers)	☐	☐		
d. Resource Conservation and Recovery Act (RCRA)	☐	☐		
e. CDPS Stormwater	☒	☐	11/28/2017	COR901386
f. Colorado State Air Pollution Emission	☐	☐		
g. Other	☐			

K. CERTIFICATION Required Signatures

Signature of Applicant: The applicant must be either the owner and/or operator of the construction site. Refer to Part B of the instructions for additional information. The application must be signed by the applicant to be considered complete. In all cases, it shall be signed as follows:

a) In the case of corporations, by a principal executive officer of at least the level of vice-president or his or her duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the application originates.
b) In the case of a partnership, by a general partner.
c) In the case of a sole proprietorship, by the proprietor.
d) In the case of a municipal, state, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee if such representative is responsible for the overall operation of the facility from which the discharge described in the form originates.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Linn Brooks — 9-25-19
Signature of **Owner** (submission must include original signature) — Date Signed

Linn Brooks — General Manager
Name (printed) — Title

Siri Roman — 9/25/2019
Signature of **Applicant** (submission must include original signature) — Date Signed

Siri Roman — Director of Operations
Name (printed) — Title

Parker Newbanks 19 — 24 SEPT 19
Signature of **Operator** (submission must include original signature) — Date Signed

Parker Newbanks — Edwards Wastewater Supervisor
Name (printed) — Title

APPENDIX A

Toxic Pollutants And Hazardous Substances
Organic Toxic Pollutants in Each of Three Fractions in
Analysis by Gas Chromatography/Mass Spectroscopy (GC/MS)

Volatiles

Acrolein
Acrylonitrile
Benzene
Bromoform
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
2-Chloroethylvinyl Ether
Chloroform
Dichlorobromomethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethylene
1,2-Dichloropropane
1,2-Dichloropropylene
Ethylbenzene
Methyl Bromide
Methyl Chloride
Methylene Chloride
1,1,2,2-Tetrachloroethane
Tetrachloroethylene
Toluene
l,2-Trans-dichloroethylene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethylene
Vinyl Chloride

Acid Compounds

2-Chlorophenol
2,4-Dichlorophenol
2,4-Dimethylphenol
4,6-Dinitro-o-cresol
2,4-Dinitrophenol
2-Nitrophenol
4-Nitrophenol
P-chloro-m-cresol
Pentachlorophenol
Phenol
2,4,6-Trichlorophenol

Pesticides

Aldrin
Alpha-BHC
Beta-BHC
Gamma-BHC
Delta-BHC
Chlordane
4'4'-DDT
4'4'-DDE
4'4'-DDD
Dieldrin
Alpha-Endosulfan
Beta-Endosulfan
Endosulfane Sulfate
Endrin
Endrin Aldehyde
Heptachlor
Heptachlor Epoxide
PCB-1242
PCB-1254
PCB-1221
PCB-1232
PCB-1248
PCB-1260
PCB-1016
Toxaphene
Lindane
Mirex
Demeton

Base/Neutral

Acenaphthene
Acenaphthylene
Anthracene
Benzidine
Benzo(a)anthracene
Benzo(a)pyrene
3,4-Benzofluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Bis(2-chloroethoxy)methane
Bis(2-chloroisopropyl)ether
Bis(2-ethylhexyl)phthalate
4-Bromophenyl phenyl ether
Butylbenzyl phthalate
2-Chloronaphthalene
4-Chlorophenyl phenyl ether
Chrysene
Dibenzo (a,h) anthracene
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
3,3-Dichlorobenzidine
Diethyl phthalate
Dimethyl phthalate
Di-n-butyl phthalate
2,4-Dinitrotoluene
2,6-Dinitrotoluene
Di-n-octyl phthalate
1,2-Diphenylhydrazine (as azobenzene)
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorcyclopentadiene
Hexachloroethane
Indeno(1,2,3-cd) pyrene
Isophorone
Naphthalene
Nitrobenzene
N-Nitrosodimethylamine
N-Nitrosodi-n-propylamine
N-Nitrosodiphenylamine
Phenanthrene
Pyrene
1,2,4-Trhichlorobenzene
bis(2-chloroethyl)ether

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APPENDIX B

Toxic Pollutants And Hazardous Substances

Inorganic Toxic Pollutants

Asbestos

Hazardous Substances

Acetaldehyde
Allyl alcohol
Allyl chloride
Amyl acetate
Aniline
Benzonitrile
Benzyl chloride
Butyl acetate
Butylamine
Captan
Carbaryl
Carbofuran
Carbon disulfide
Chlorpyrifos
Coumaphos

Crotonaldehyde
Cyclohexane
2,4-D(2,4-Dichlorophenoxy acetic acid)
acid) Diazinon
Dicamba
acid) Dichlobenil
Dichlone
2,2-Dichloropropionic acid
Dichlorvos
Diethyl amine
Dimethyl amine
Dinitrobenzene
Diquat
Disulfoton
Diuron
Dodecylbenzenesulfonate
Epichlorohydrin
Ethanolamine
Ethion
Ethylene diamine
Ethylene dibromide
Formaldehyde
Furfural
Guthion Isoprene
Isopropanolamine
Keithane
Kepone

Malathion
Mercaptodimethur
Methoxychlor
Methyl mercaptan
Methyl methacrylate
Methyl parathion
Mevinphos
Mexacarbate
Monoethyl amine
Monomethyl amine
Naled
Napthenic acid
Nitrotoluene
Parathion
Phenolsulfanate
Phosgene
Propargite
Propylene oxide
Pyrethrins
Quinoline
Resorcino Cresol
Strontium
Strychnine
Styrene
2,4,5-T(2,5-Trichlorophenoxy acetic
TDE (Tetrachlorodiphenylethane)
2,4,5-TP[2-(2,4,5-Trichlorophenoxy propanoic
Trichlorofan
Triethylamine
Trimethylamine
Uranium
Vanadium
Vinyl Acetate
Xylene
Xylenol
Zirconium

APPENDIX C

CATEGORICAL INDUSTRIES

Adhesives and Sealants
precious Aluminum Forming
metals/Subpart B) Auto and Other Laundries
Manufacturing
Battery Manufacturing
Coil Coating
Copper Forming
Electrical and Electronic Components

Explosives Manufacturing
Foundries
Gum and Wood (all subparts except D and F)
Subpart D - tall oil rosin
Subpart F - rosin-based derivatives
Inorganic Chemicals Manufacturing
Iron and Steel Manufacturing
Leather Tanning and Finishing
Mechanical Products Manufacturing
Nonferrous Metals Manufacturing

Ore Mining (applies to the base and

Organic Chemicals

Paint and Ink Formulation
Pesticides
Petroleum Refining
Pharmaceutical Preparations Electroplating
Photographic Equipment and Supplies
Plastic and Synthetic Materials Manufacturing
Plastic Processing
Porcelain Enameling
Printing and Publishing
Pulp and Paperboard Mills
Rubber Processing
Soap and Detergent Manufacturing
Steam Electric Power Plants
Textile Mills (Subpart C - Greige Mills are
Exempt From This Table)
Timber Products Processing

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APPENDIX D

ADDITIONAL REQUIREMENTS FOR DISCHARGES TO GROUND WATER

IMPOUNDMENTS, LAND APPLICATION AND SEPTIC SYSTEMS >2000 GPD

GENERAL REQUIREMENTS

(1) **FACILITY MAPPING**: A location map of the facility and surrounding area, based on the USGS 7.5 minute quadrangle topographic map series or comparable map, shall be submitted with the following information: (a) facility location; (b) drinking water wells within a one mile radius of the facility in an urban area, or the drinking water wells within a five mile radius in a rural area; (c) the irrigation wells within one mile radius of the facility and indicate the estimated area of influence for each irrigation well.; (d) topography; (e) any known surface area contamination or ground water contamination area; and (f) a North arrow. Map must be no larger than 11 X 17 inches.

(2) **FACILITY SKETCH**: A legible sketch of the site shall be submitted and will include buildings, roads, ditches, ponds, streams, drains, impoundment(s), land application areas, any septic systems and monitoring well locations (indicate if in place or pro posed). This sketch may be the same as in surface water discharge permit if no additional information is needed. The sketch will be on 8.5 X
11 inch paper.

(3) **SITE STUDIES/INFORMATION**: Provide a copy of any studies, geological reports, consultant reports, water quality analyses pertinent to your facility/site which you feel may help the Division in the development your ground-water permit. Include such reports/studies that address such areas of interest as ground-water quality analyses that establish ambient (existing ground-water quality prior to your ownership of the property), all Material Safety Data Sheets (MSDS) for each chemical used at your facility (an example MSDS is available from the Ground Water Unit), well driller's logs and pumping information of the local aquifer, any computer modelling results that have been performed for the immediate area, U. S. Geological Survey (USGS) reports for the area, etc.

(4) **GEOLOGY/HYDROGEOLOGY OF SITE**:
(a) Describe the local geology of the site. Identify and describe all lithologic units from the ground surface to the first impermeable stratigraphic unit. Provide the estimated thickness of each unit. Include a geologic map or cross sections, if necessary. Maps will be on 8.5 X 11 paper.

(b) Describe the hydrogeology of the site. Describe in detail the relationship of this site to any alluvial or bedrock water bearing formations (unconfined, confined, or perched) and surface water (lakes, ponds, ditches or streams). Identify aquifer name or formation name for each water bearing formation and provide the depth to water (include water elevation) for each. Describe any unusual geologic or hydrologic features that could affect ground water rate of movement or direction of movement (i.e. faults, fractures).

(c) Describe aquifer characteristics (transmissivity or permeability, porosity and storage capacity) of these water bearing formations. State the source(s) of this information.

(d) Provide potentiometric surface (ground water level) map(s) of the water bearing formations. Document information source(s), if obtained from published data. If water levels are contoured from site data, control points must be annotated with water table elevation and time period of measurements indicated in legend. Map must be legible and no larger than 11 X 17 inches.

(e) Discuss any hydrogeologic investigations or ground-water modeling conducted at this site.

(5) **Water Quality Sampling Requirements** The Discharge Regulations require Domestic Wastewater Treatment works to characterize the raw and effluent wastewater quality related to each discharge at the facility. The Division's quality assessment requirements are listed below. In addition, the Division is requiring an existing ground-water quality characterization, which is found in paragraph (a), below.

(a) Each applicant must submit (i) a description of the ground water in the sample prior to filtration [i.e. clear, murky, cloudy , etc.]; (ii) the below listed analytical data used to document (A) ambient ground water near the impoundment, land applic ation and/or leach field, and (B) the upgradient ground water

Total Coliforms	Biochemical Oxygen Demand (BOD)	Total Ammonia
Temperature	Ph	Nitrate as N

CHARACTERIZATION OF GROUND WATER (Measured as dissolved concentration)

Sodium (Na)	Chloride (Cl)
Calcium (Ca)	Bicarbonate (HCO_3)
Magnesium (Mg)	Sulfate (SO_4)
Potassium (K)	Carbonate (CO_3)
Iron (Fe)	Total Dissolved Solids

(b) Each applicant must sample, analyze and report to the Division any of the below listed pollutants he/she knows or has reason to believe may be present in the influent to the facility's treatment system or is in the ground water below his/her property:

(i) TABLE II OF APPENDIX D, PART 122, TITLE 40 OF THE CODE OF FEDERAL REGULATIONS; ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GC/MS)--CONSIDER ALL POLLUTANTS LISTED FOR EACH FRACTION FOR A CONTRIBUTING CATEGORICAL INDUSTRY, AS INDICATED IN APPENDIX C OF THIS APPLICATION:

The list of organic toxic pollutants in each of four fractions -"Volatiles, Base/Neutral, Acid and Pesticides" - is found in "Appendix A - Priority Pollutants". Measure the dissolved concentration for each of the parameters listed that you know or believe will be present at your facility.

(ii) TABLE V OF APPENDIX D, PART 122, TITLE 40 OF THE CODE OF FEDERAL REGULATIONS; TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES.

The list of toxic pollutants and hazardous substances is found in "Appendix B", above. If you believe your influent contains any of the listed toxic/hazardous substances or it is likely that they will be present at your facility, measure the dissolved concentration for each parameter.

(c) Each applicant is required to report whether 2,3,7,8 Tetrachlorodibenzo-P-Dioxin (TCDD) or one of the below listed compounds is used/stored at the site, and, therefore, may be present in the soil or ground water.

(i) 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) (CAS #93-76-5);

(ii) 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) (CAS #93-72-1);

(iii) 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) (CAS #136-25-4);

(iv) 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) (CAS #299-84-

3); (v) 2,4,5-trichlorophenol (TCP) (CAS #95-95-4); or

(vi) Hexachlorophene (HCP) (CAS #70-30-4).

D-1 SPECIFIC REQUIREMENTS FOR IMPOUNDMENTS

COMPLETE THIS PORTION OF THE APPLICATION FOR IMPOUNDMENTS DISCHARGING TO GROUND WATER

1) Provide detailed Plan and Side View sketches of the impoundment, include liner thickness (if lined), type of liner and depth to ground water.

2) Provide technical information on liner type, materials used in construction, thickness, expected permeability and how the liner was installed.

3) Provide results of "in situ" permeability testing of the clay liner or the expected permeability of the synthetic liner for the bottom and sides of the impoundment.

4) If the facility has existing monitoring wells, please include the driller's well completion and pump installation report that provides the the exact location of each well (i.e. XXXX feet from the South Section line and YYYY feet from the East Section line); the maximum sustained yield; the well log of the material (clay, sand, shale, etc.) and thickness of each of these layer; the casing record (size, kind and length); the perforated casing (size, kind and length); the grouting record (material, intervals and placement method); the gravel pack (size and interval); the Static Water level and the final pumping level; and the total depth plus the water elevation. Please provide the surveyed elevation of the monitoring well's measuring point.

5) Provide below requested information for other permits that pertain to this facility (See APPENDIX E for a list of likely permits for your facility.):

(a) Issuing Agency and the Date permit application was made to this agency;
(b) Permit number;
(c) Respond to the relevant questions in Appendix E for Resource Conservation and Recovery Act (RCRA) Subtitle "C","D" or "I" sites.

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D-2 - SPECIFIC REQUIREMENTS FOR LAND APPLICATION

(1) Analytical data used to document ambient ground-water quality should be submitted for the following parameters (Unless otherwise indicated, determine the dissolved concentration of each of the following):

Aluminum	Beryllium	Arsenic	Silver
Boron	Cobalt	Barium	Cadmium
Copper	Lithium	Chromium	Cyanide (Weak Acid Dissociable)
Nickel	Vanadium	Fluoride	Lead
Mercury		Zinc	
Nitrite		Selenium	
Manganese		Color	
Copper		Corrosivity	
Foaming Agents		Odor	
Gross Alpha (excl. Radon/Uranium)			
Beta and Photon Emitters			

(2) Provide a description of the A and B soil horizons mapped at this site by the U. S. Soil Conservation Service.

(3) Describe the existing vegetative cover at the site. Include plans for any proposed disturbance or planting.

(4) Does this land application plan use the root zone for attenuation of effluent components? If so, explain in detail. Include a report of the vadose zone modelling, if performed.

(5) Provide all information pertaining to precipitation, evapotranspiration, and infiltration for this site (supplemental irrigation, solar and wind evaporation, plant uptake, infiltration tests).

(6) Describe the proposed rate and schedule of application and its expected effects on ground water levels.

(7) The following parameters should be determined from soil samples taken at one foot intervals to a depth of five feet. It is preferred that these soil samples be collected in the spring and analyzed as total available [Parameters are to be measured as Total concentrations [using the AB-DPTA extraction—Contact Jim Self at the CSU Soil Laboratory), as appropriate.]. These results are to be provided to the Division, when they are available.

aluminum	copper	nitrate residuals	zinc
iron	nickel	ammonia residuals	
arsenic	lead	phosphorous	
cadmium	mercury	potassium	
chromium	molybdenum	selenium	

(8) Describe the effluent storage capacity during inclement weather and/or frozen ground.

(9) Provide below requested information for other permits that pertain to this facility (See APPENDIX E for a list of likely permits for your facility.):

(a) Issuing Agency and the Date permit application was made to this agency;

(b) Permit number;

(c) Respond to the relevant questions in Appendix E for Resource Conservation and Recovery Act (RCRA) Subtitle "C","D" or "I" sites.

D-3 - SPECIFIC REQUIREMENTS FOR SEPTIC SYSTEMS

1) FACILITY

Circle "Facility Type" and indicate the Design Capacity of the septic system plus whether the facility also has impoundment(s) or land application associated with it.

"Facility Type"
Industrial/Domestic Wastewater (a) Business; (b) Ski Area; (c) Campground/R.V. Park;
(d) Motel/Hotel/Dude Ranch; (e) Community System; (f) School; (g) Church; (h) Hardrock Mining/Milling / Placer Mining / Coal Mining; (i) Sand and Gravel Production; (j) Construction Dewatering; (k) Ground Water Cleanup of Gasoline/Diesel

SEPTIC SYSTEM DESIGN CAPACITY = ____gpd

Circle the appropriate components of the septic

system: TWO STAGE SYSTEM:

FIRST STAGE	(a) SEPTIC TANK (b) AERATION SYSTEM	
SECOND STAGE	(a) BED	(1) PIPE & GRAVEL (2) GRAVELLESS CHAMBERS (b) TRENCH (3) GRAVELLESS PIPE

THREE STAGE SYSTEM:

FIRST STAGE	(a) SEPTIC TANK (b) AERATION SYSTEM	
SECOND STAGE	SAND FILTER	
THIRD STAGE	(a) BED	(1) PIPE & GRAVEL (2) GRAVELLESS CHAMBERS (b) TRENCH (3) GRAVELLESS PIPE

Indicate whether there are impoundments and/or land application at this facility:

IMPOUNDMENT _____(Y)____(N) #_____ Wetted Surface Area of Each _____ft^2 _____ ft^2 _____ft^2

LAND APPLICATION _____(Y)____(N) Type_____

If the response is "Yes" to either the impoundment or land application question, please refer to D-1 OR D-2, RESPECTIVELY.

2) OTHER PERMIT(S) FOR THIS FACILITY:

ARE THERE "PERMITS"/"ACTION PLANS" IN PLACE FOR THIS PROPERTY?
_____ YES _____ NO

(a) REFER TO APPENDIX E FOR SUGGESTIONS AS TO WHAT ARE INCLUDED AS "OTHER PERMIT(S)" (b) IF THE ANSWER IS "YES" TO THE ABOVE QUESTION, ATTACH ADDITIONAL PERMIT INFO AS AN ATTACHMENT TO THIS APPENDIX.

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APPENDIX E

ENVIRONMENTAL PERMIT INFORMATION

TYPES OF PERMITS AVAILABLE FOR FACILITIES:

1. USEPA UNDERGROUND INJECTION CONTROL PERMIT;

2. COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT STORMWATER PERMIT;

3. COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT AIR POLLUTION EMISSION PERMIT;

4. COLORADO DIVISION OF MINERALS AND GEOLOGY PERMIT;
(Please include the mined land reclamation board permit anniversary date.)

5. RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) I.
RCRA SUBTITLE C HAZARDOUS WASTE:
i) PROVIDE YOUR RCRA EPA ID NUMBER;
ii) PROVIDE YOUR STATE RCRA PERMIT NUMBER;
iii) DO YOU NOW HAVE OR HAVE YOU IN THE PAST HAD INTERIM STATUS?

II. RCRA SUBTITLE D SOLID WASTE:
i) HAS A CERTIFICATE OF DESIGNATION (CD) FOR SOLID WASTE DISPOSAL BEEN ISSUED FOR THIS SITE?
ii) ARE YOU DISPOSING OF YOUR OWN WASTE ON YOUR OWN PROPERTY?
iii) DO YOU HAVE AN APPLICATION FOR A CD PENDING?
iv) IF THIS FACILITY IS A MINING OPERATION, ARE YOU DISPOSING OF MINE WASTE ON YOUR OWN PROPERTY?
v) HAVE YOU DONE ANY RECYCLING AT THIS SITE?
vi) IS THERE BENEFICIAL USE OR DISPOSAL OF BIOSOLIDS OR SEPTAGE AT THIS PROPERTY?
vii) IS YOUR PROPERTY USED AS A TRANSFER STATION?

III. RCRA SUBTITLE I UNDERGROUND STORAGE TANKS
i) ARE THERE EITHER ABOVE GROUND OR BELOW GROUND TANKS ON THIS PROPERTY?
ii) HAS THERE BEEN A RELEASE FROM THE TANK SYSTEM?--IF YES, THEN RESPOND TO "iii)".
iii) HAS ASSESSMENT WORK BEEN PERFORMED?--IF YES, THEN RESPOND TO "iv)". iv)HAS A CORRECTIVE ACTION PLAN BEEN APPROVED OR PERFORMED?

6. COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT URANIUM MILLS TAILINGS REMEDIAL ACTION PROGRAM (UMTRAP):
IS THERE A REMEDIAL ACTION PLAN PENDING OR IN PLACE AT THIS PROPERTY?
i) IS THERE A SURFACE DISCHARGE PERMIT?
ii) IS THERE AN AIR EMISSIONS PERMIT?

7. COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA):

IS THIS PROPERTY LISTED AS A SUPER FUND SITE?

LOCAL RESOURCES OF INFORMATION

U.S. Geological Survey Library
Building 20
Denver Federal Center *
Telephone: 303/236-1000

U.S. Geological Survey Map Sales
Building 810
Denver Federal Center *
Telephone: 303/236-7476

* Located in Lakewood between Sixth Avenue and Alameda Boulevard, Kipling Street and Union Boulevard

Office of the Colorado State Engineer
1313 Sherman Street
Room 818
Denver, Colorado
Telephone: 303/866-3581

Soil Survey Maps are located at:
Soil Conservation Service
655 Parfet Street
Room E 200 C
Lakewood, Colorado 80215-5517
Telephone: 303/236-2897

US EPA Region VIII
Underground Injection Control Program
999 18th St.
Suite 500
Denver, Colorado 80202-2466
Telephone: 303/293-1430

Air Pollution Control Division
Hazardous Materials and Waste Management Division
Radiation Control Division
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530
Telephone: 303/692-3100
Telephone: 303/692-3300
Telephone: 303/692-3030

Laboratory Division at the
Colorado Department of Public Health and Environment
8100 Lowry Blvd.
Denver, Colorado 80220-6928
Telephone: 303/692-3090

INFORMATION TO BE SAVED FOR OTHER USE

(i) TABLE III OF APPENDIX D, PART 122,TITLE 40 OF THE CODE OF FEDERAL REGULATIONS; OTHER TOXIC POLLUTANTS (METALS AND CYANIDE) AND TOTAL PHENOLS (UNLESS INDICATED OTHERWISE, ANALYZE THE FOLLOWING FOR THE DISSOLVED CONCENTRATION):

ANTIMONY	ARSENIC
BERYLLIUM	CADMIUM
CHROMIUM	COPPER
LEAD	TOTAL MERCURY
NICKEL	SELENIUM
SILVER	THALLIUM
ZINC	CYANIDE
TOTAL PHENOLS??	

A detailed summary of the design criteria for the land application processes including groundwater quality criteria to be met at an

identified point of compliance. Include process utilized for treatment (nutrient removal, coliform removal, etc.), storage (including evaporation and percolation data), and/or disposal of wastewater effluent, such as exfiltration ponds, impoundments, underground injection, underground percolation, landscape irrigation etc. Also, provide a diagram which shows the land application site(s) and monitoring device (well, lysimeter, etc.) locations, construction details (materials, etc.) and their depths.

C. Provide any operating data (application rates, nutrient loadings, groundwater quality, etc.) for existing land application systems.

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Dear Permittee/Applicant

The Water Quality Control Division of the Colorado Department of Public Health and Environment is using a geographic information system to update the way we organize data. One of the most important pieces of data the Permits Unit tracks is the location of the facility and, in particular, the location of each discharge point. From our permittees, we will need the best possible locational data for their discharge points. Please fill out the form on the reverse side of this page and return it to the address below as soon as possible or with your application. The better the locational information we receive, the more timely the work on your application/renewal/amendment can proceed. Delay in processing your permit may result if poor information is received.

A GPS unit is a hand-held instrument that uses satellite signals to pinpoint the users location in terms of longitude and latitude. If you do not own a GPS unit and do not wish to purchase one, one may be borrowed from a sportsman (GPS units of good quality are sold in sporting goods stores for hunting or hiking). Surveyors or engineers that are working on the project may have one. If maps are used, please send the whole topo map including the margins, legend and scale. Please mark the Discharge point(s) clearly and accurately.

Thank you for providing this information. It will help us provide better and more timely assistance to our customers as well as aid in decision making internally.

Colorado Department of Public Health and Environment
Water Quality Control Division
WQCD-P-B2
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530
(303)+692-3500

The following choices for the data acquisition are listed in order of preference. Please check the box that applies to the method used for collection of the locational data of your **Discharge points**.

Global Positioning System (GPS) unit accurate to within 30 yards.

Global Positioning System (GPS) unit accurate to greater than 30 yards.

Point on original USGS topographic map.

Point on good quality city street map (if point is in city).

Engineering drawing/plan with latitude and longitude

reference. Point on copy of USGS topographic map.

Point on copy of city street map (if point is in

city). Other. Explain

Name of facility

Permit Number (if renewal or amendment

Facility contact name

Contact phone Number

EAGLE RIVER
WATER & SANITATION
DISTRICT

Edwards Wastewater Treatment Facility
Permit No. CO-0037311

Renewal Application
List of Attachments:

Attachment 1
Section A: Contact Information
Supplemental Contact Information

Attachment 2
Section C: Service Area & Population
Location Map with Service Area

Attachment 3
Section C: Service Area & Population
Non-Residential Customers

Attachment 4
Section C: Service Area & Population
Population Analysis

Attachment 5
Section D: Flows and Discharges
Location Map with Discharge Point

Attachment 6
Section D: Flows and Discharges
Diagrams of the Site
Aerial
Flow Diagram

Attachment 7
Section F: Treatment Facilities and Sewer System
Collection System Narrative

Attachment 8
Section F: Treatment Facilities and Sewer System
Lift Station Map

Attachment 9
Section G: Operation and Management
Wastewater Operating Plan

Attachment 10
Section G: Operation and Management
Emergency Response Plan

Attachment 11
Section G: Operation and Management
Chemical List and SDS

Attachment 12
Section G: Operation and Management
Analytical Procedures

Attachment 13
Section H: Biosolids Handling
Biosolids Narrative

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EAGLE RIVER
WATER & SANITATION
DISTRICT

Attachment 1

Section A: Contact Information

Supplemental Contact Information

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EAGLE RIVER
WATER & SANITATION
DISTRICT

Attachment 1

SECTION A

6. (Supplemental Contact Information)

Responsible Position: Pretreatment Coordinator
Currently Held By: Tug Birk
Telephone No. : 970-477-5449
Email Address: dbirk@erwsd.org
Organization: ERWSD
Mailing Address: 846 Forest Road
City: Vail State: Colorado Zip: 81657

Responsible Position: Biosolids Responsible Party
Currently Held By: Parker Newbanks
Telephone No. : 970-477-5483
Email Address: pnewbanks@erwsd.org
Organization: ERWSD
Mailing Address: 846 Forest Road
City: Vail State: Colorado Zip: 81657

Responsible Position: Stormwater Authorized Representative
Currently Held By: Leah Cribari
Telephone No. : 970-477-5439
Email Address: lcribari@erwsd.org
Organization: ERWSD
Mailing Address: 846 Forest Road
City: Vail State: Colorado Zip: 81657

Responsible Position: Safety Coordinator
Currently Held By: Dan Siebert
Telephone No. : 970-477-5427
Email Address: dsiebert@erwsd.org
Organization: ERWSD
Mailing Address: 846 Forest Road
City: Vail State: Colorado Zip: 81657

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Attachment 1 Continued

Responsible Position: Consultant
Currently Held By: Caroline Byus
Telephone No. : 970-357-5486
Email Address: byus@pinyon-env.com
Organization: Pinyon Environmental, Inc.
Mailing Address: 3222 S. Vance Street, Suite 200
City: Lakewood State: Colorado Zip: 80227

EAGLE RIVER
WATER & SANITATION
DISTRICT

Attachment 2

Section C: Service Area & Population

Location Map with Service Area

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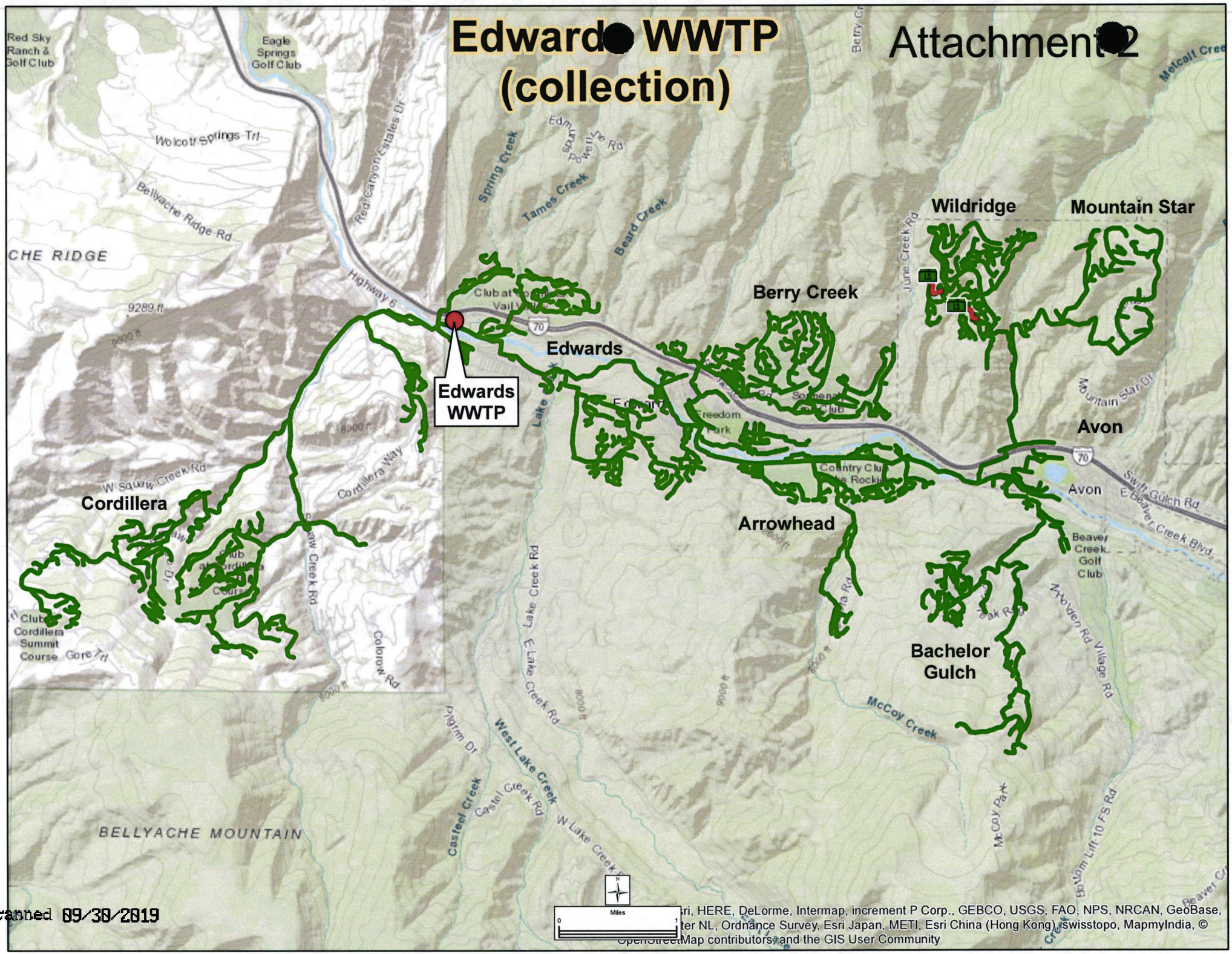
Edwards WWTP (collection)

Attachment 2



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EAGLE RIVER
WATER & SANITATION
DISTRICT

Attachment 3

Section C: Service Area & Population

Non-Residential Customers

Clean Water. Quality Life. ™
846 Forest Road Vail, Colorado 81657 Tel (970) 476-7480 Fax (970) 476-4089 erwsd.org

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Attachment 3: F ds Non-residential

Customer	Address				Account	Type	SFE
RESERVE	34999	HWY 6	IRR	EDWARDS	258075	IRR	5.72
EAGLE COUNTY CHARTER ACD	1105	MILLER RANCH RD		EDWARDS	258292	COM	5.8
CDOT - STATE LAND BOARD	0228	EDWARDS ACCESS RD	REST AREA	EDWARDS	258450	COM	10.3
EXIT 163 LLC	0436	EDWARDS ACCESS RD	WENDY'S	EDWARDS	258459	MIX	7.8
EXIT 163 LLC	0434	EDWARDS ACCESS RD	CME+LUBE	EDWARDS	258460	COM	1.5
EXIT 163 LLC	0434	EDWARDS ACCESS RD	CAR WASH	EDWARDS	258461	COM	4.3
EDWARDS INTERCHANGE I	0429	EDWARDS ACCESS RD	BLDG A	EDWARDS	258511	MIX	5.6
EAGLE RIVER REAL ESTATE HOLDINGS	0429	EDWARDS ACCESS RD	BLDG A	EDWARDS	258511	MIX	5.6
EAGLE RIVER REAL ESTATE HOLDINGS	0439	EDWARDS ACCESS RD	BLDG B	EDWARDS	258514	MIX	3.6
EDWARDS INTERCHANGE II	0439	EDWARDS ACCESS RD	BLDG B	EDWARDS	258514	MIX	3.6
EDWARDS METRO DISTRICT	0438	EDWARDS ACCESS RD	IRR	EDWARDS	258516	IRR	0.7
VAIL CHRISTIAN HIGH SCHOOL	31621	HWY 6	WEST BLDG	EDWARDS	258556	COM	10.3
VAIL CHRISTIAN HIGH SCHOOL	31625	HWY 6	EAST BLDG	EDWARDS	258566	COM	10.3
VAIL CHRISTIAN ACADEMY	31725	HWY 6	MODULARS	EDWARDS	258567	COM	1.5
FAMILY LEARNING CENTER	31626	HWY 6		EDWARDS	258571	COM	5.8
ST CLARE OF ASSISI	31622	HWY 6	SCHOOL	EDWARDS	258572	COM	10.3
HERITAGE PARK LAND DEVELOPMENT LLC	0042	ALLEN CIR	IRR 1	EDWARDS	258722	IRR	1
HOMESTEAD HOA	0400	HOMESTEAD DR	ATHL BLDG	EDWARDS	258920	COM	5.8
GRACIOUS SAVIOR	33520	HWY 6		EDWARDS	259000	COM	2.6
EDWARDS CORNER LLC	0056	EDWARDS VILLAGE BLVD		EDWARDS	259135	COM	10.3
EAGLE CO HEALTH SERV DIST	1055	EDWARDS VILLAGE BLVD	AMBULANCE	EDWARDS	259153	COM	2.6
EAGLE CO HEALTH SERV DIST	1055	EDWARDS VILLAGE BLVD	MTN RESCUE	EDWARDS	259154	COM	1.5
EAGLE RIVER FIRE PROTECTION DISTRICT	33860	HWY 6		EDWARDS	259160	COM	1.5
RIVERWALK VILLAGE MARKET	34295	HWY 6	1-13	EDWARDS	259181	COM	13
FEATHER PETROLEUM CO	0047	EDWARDS VILLAGE BLVD		EDWARDS	259190	COM	2.6
SMILING MOOSE OPERATING COMPANY	1170	EDWARDS VILLAGE BLVD	BA	EDWARDS	259212	COM	1.5
EDWARDS VILLAGE II ASSOC	1140	EDWARDS VILLAGE BLVD	BB	EDWARDS	259213	COM	5.8
EDWARDS VILLAGE CENTER	0105	EDWARDS VILLAGE BLVD	BLDG A	EDWARDS	259400	COM	1.5
EDWARDS VILLAGE CENTER	0105	EDWARDS VILLAGE BLVD	BLDG B	EDWARDS	259420	COM	2.6
EDWARDS VILLAGE CENTER	0105	EDWARDS VILLAGE BLVD	BLDG C	EDWARDS	259421	COM	1.5
EDWARDS VILLAGE CENTER	0105	EDWARDS VILLAGE BLVD	BLDG D	EDWARDS	259422	COM	1.5
EDWARDS VILLAGE CENTER	0105	EDWARDS VILLAGE BLVD	BLDG E	EDWARDS	259423	COM	1.5
EDWARDS VILLAGE CENTER	0105	EDWARDS VILLAGE BLVD	BLDG F	EDWARDS	259424	COM	1.5
EDWARDS VILLAGE CENTER	0105	EDWARDS VILLAGE BLVD	BLDG G	EDWARDS	259425	COM	1.5
GORE RANGE BREWERY	0105	EDWARDS VILLAGE BLVD	BLDG H	EDWARDS	259426	COM	5.8
HOMESTEAD HOA	0901	EDWARDS VILLAGE BLVD	IRR	EDWARDS	259503	IRR	2.1
EDWARDS COMMERCIAL PARK	0210	EDWARDS VILLAGE BLVD	BLDG A	EDWARDS	259506	COM	2.6
EDWARDS COMMERCIAL PARK	0210	EDWARDS VILLAGE BLVD	BLDG B	EDWARDS	259507	COM	2.6
EDWARDS COMMERCIAL PARK	0210	EDWARDS VILLAGE BLVD	BLDG C	EDWARDS	259508	COM	2.6
EDWARDS COMMERCIAL PARK	0210	EDWARDS VILLAGE BLVD	BLDG D	EDWARDS	259509	COM	2.6
ELK MEADOW TOWNHOME ASSOC	1050	IMPERIAL DR	CLUBHSE	EDWARDS	259574	COM	1.5
VILLAS AT BRETT RANCH	2200	CRAZY HORSE CIR	POOL	EDWARDS	259867	COM	5.8

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EAGLE VALLEY RELIGIOUS FOUNDATION	32138	HWY 6		EDWARDS	259890	COM	5.8
WIND ROSE PROPERTIES LLC	0290	WEBB PEAK		EDWARDS	260012	COM	1.5
WIND ROSE PROPERTIES LLC	1782	GOLDEN BEAR DR	RR	EDWARDS	260013	COM	1.5
WIND ROSE PROPERTIES LLC	1475	PINE MARTEN WAY	RR	EDWARDS	260014	COM	1.5
CORDILLERA METRO DISTRICT	0327	SETTLERS LOOP	CLUBHOUSE	EDWARDS	260016	COM	5.8
CORDILLERA METRO DISTRICT	0050	BLACK BEAR TRL	IRR	EDWARDS	262120	IRR	0.3
CORDILLERA METRO DISTRICT	0233	BEARDEN RD	IRR	EDWARDS	267267	IRR	0.3
CORDILLERA METRO DISTRICT	0141	BEARDEN RD	IRR	EDWARDS	267271	IRR	0.3
WIND ROSE PROPERTIES LLC	0655	CLUBHOUSE DR		EDWARDS	268039	COM	10.3
AUBERGE HOLDINGS CO LLC	2205	CORDILLERA WAY	MAIN LODGE	EDWARDS	268040	COM	44.3
AUBERGE HOLDINGS CO LLC	2205	CORDILLERA WAY	GAZEBO WNG	EDWARDS	268041	COM	33
CORDILLERA METRO DISTRICT	0001	EL MIRADOR	IRR	EDWARDS	268270	IRR	5.8
CORDILLERA METRO DISTRICT	0135	GRANADA HILL	IRR	EDWARDS	268291	IRR	0.3
CORDILLERA METRO DISTRICT	1730	GRANADA GLEN	IRR	EDWARDS	268292	IRR	0.2
CORDILLERA METRO DISTRICT	0020	LITTLE ANDORRA RD	IRR	EDWARDS	268293	IRR	0.2
CORDILLERA METRO DISTRICT	1335	CORDILLERA WAY	IRR	EDWARDS	268294	IRR	0.2
CORDILLERA METRO DISTRICT	2331	SQUAW CREEK RD		EDWARDS	268380	COM	2.6
CORDILLERA METRO DIST	2331	SQUAW CREEK RD	IRR	EDWARDS	268384	COM	4
CORDILLERA METRO DISTRICT	0543	CARTERVILLE RD		EDWARDS	268386	COM	2.6
CORDILLERA METRO DISTRICT	0408	CARTERVILLE RD		EDWARDS	268387	COM	2.6
EAGLE RIVER FIRE PROTECTION DISTRICT	0204	CARTERVILLE RD	FIREHOUSE	EDWARDS	268388	COM	1.5
EAGLE RIVER FIRE PROTECTION DISTRICT	0130	SUMMIT TRL		EDWARDS	268389	COM	1.5
CORDILLERA METRO DISTRICT	0360	CARTERVILLE RD		EDWARDS	268391	COM	2.6
AUBERGE HOLDINGS CO LLC	0100	KENSINGTON DR	RESTAURANT	EDWARDS	268426	COM	5.8
CORDILLERA METRO DISTRICT	0400	KENSINGTON DR	RR	EDWARDS	268427	COM	1.5
CORDILLERA METRO DISTRICT	0547	KENSINGTON DR	IRR	EDWARDS	268464	IRR	14
CORDILLERA METRO DISTRICT	0050	CORDILLERA WAY	DVD GTHS	EDWARDS	268490	COM	2.6
CORDILLERA METRO DISTRICT	3002	CORDILLERA WAY	GC SHOP	EDWARDS	268491	COM	2.6
WIND ROSE PROPERTIES LLC	0351	SADDLE RIDGE RD	RR	EDWARDS	268640	COM	2.6
CORDILLERA METRO DISTRICT	1200	FENNO DR	RNCH GTHS	EDWARDS	268645	COM	1
AUBERGE HOLDINGS CO LLC	2203	CORDILLERA WAY		EDWARDS	268646	COM	1.5
WIND ROSE PROPERTIES LLC	0665	CLUBHOUSE DR	PROSHOP	EDWARDS	268647	COM	1.5
WIND ROSE PROPERTIES LLC	2500	FENNO DR	MNT SHP,E	EDWARDS	268648	COM	1.5
WIND ROSE PROPERTIES LLC	2500	FENNO DR	MNT SHP,W	EDWARDS	268649	COM	1.5
CORDILLERA METRO DISTRICT	0325	SETTLERS LOOP		EDWARDS	268658	COM	1.5
WIND ROSE PROPERTIES LLC	2583	FENNO DR	RR-16TH T	EDWARDS	268660	COM	1.5
CORDILLERA METRO DISTRICT	3000	FENNO DR	TRAILHEAD	EDWARDS	268664	COM	5.8
UERWA	0350	ELK SPRING TRL	WELL HSE	EDWARDS	268792	COM	3
CORDILLERA METRO DISTRICT	0145	ELK SPRING TRL	IRR	EDWARDS	268896	IRR	5.8
CORDILLERA METRO DIST	0010	PEREGRINE DR	IRR	EDWARDS	268929	IRR	1.5
CORDILLERA METRO DIST	0010	REDTAIL RDG	IRR	EDWARDS	268932	IRR	1.5
CORDILLERA METRO DISTRICT	0886	SUMMIT TRL	IRR	EDWARDS	270010	IRR	0.3
CORDILLERA METRO DISTRICT	0035	WEBB PEAK	IRR	EDWARDS	270011	IRR	0.3

CORDILLERA METRO DISTRICT	0001	SUMMIT SPRINGS TRL	IRR	EDWARDS	270017	IRR	0.2
CORDILLERA METRO DISTRICT	0470	GORE TRL	IRR	EDWARDS	270093	IRR	0.2
CORDILLERA METRO DISTRICT	0012	PIKES WAY	IRR	EDWARDS	270094	IRR	0.2
CORDILLERA METRO DISTRICT	0014	JACKSONS PATH	IRR	EDWARDS	270095	IRR	0.2
CORDILLERA METRO DISTRICT	1191	GORE TRL	IRR	EDWARDS	270096	IRR	0.2
CORDILLERA METRO DISTRICT	0010	GRANITE SPRINGS TRL	IRR	EDWARDS	270097	IRR	0.2
CORDILLERA METRO DISTRICT	0001	TERRITORY TRL	IRR	EDWARDS	270098	IRR	0.2
CORDILLERA METRO DISTRICT	0885	SUMMIT TRL	IRR	EDWARDS	270099	IRR	0.2
UERWA	1000	WEBB PEAK	ANLYZR	CORDILLERA	270101	COM	10.3
WIND ROSE PROPERTIES LLC	0190	GORE TRL	CLUBHOUSE	EDWARDS	270925	COM	5.8
WIND ROSE PROPERTIES LLC	0190	GORE TRL	RESTROOMS	EDWARDS	270926	COM	1.5
CORDILLERA METRO DISTRICT	1585	GORE TRL		EDWARDS	279163	IRR	
CORDILLERA METRO DISTRICT	0020	MARTINGALE LN	IRR	CORDILLERA	279207	IRR	2
WIND ROSE PROPERTIES LLC	0520	SUMMIT TRL		EDWARDS	279988	COM	2.6
TRAILSIDE HOA	0034	TRAILSIDE LN	IRR	EDWARDS	280000	IRR	5.8
TRAILSIDE HOA	0034	TRAILSIDE LN	SKI HUT	EDWARDS	280005	COM	1.5
COUNTRY CLUB OF ROCKIES	36707	HWY 6	MAINTNC	EDWARDS	280100	COM	2.6
ARROWHEAD AT VAIL ASSOC	0800	ARROWHEAD DR		EDWARDS	280110	COM	1.5
VAIL RESORTS	0047	SAWATCH DR	MAIN BLDG	EDWARDS	280111	COM	2.6
COUNTRY COUNTRY CLUB OF THE ROCKIES	0676	SAWATCH DR	GOLF RR E	EDWARDS	280116	COM	2.6
COUNTRY COUNTRY CLUB OF THE ROCKIES	0676	SAWATCH DR	GOLF RR W	EDWARDS	280117	COM	2.6
COUNTRY COUNTRY CLUB OF THE ROCKIES	0070	GLENEAGLE CT		EDWARDS	280118	COM	2.6
DAKOTA AT ARROWHEAD ASSOC	0332	SAWATCH DR	IRR	EDWARDS	280226	IRR	10.3
DAKOTA AT ARROWHEAD ASSOC	0360	SAWATCH DR	IRR	EDWARDS	280227	IRR	5.8
COUNTRY COUNTRY CLUB OF THE ROCKIES	0676	SAWATCH DR	CLUBHOUSE	EDWARDS	280250	COM	10.3
SEASONS AT ARROWHEAD	0600	SAWATCH DR		EDWARDS	280258	MIX	34.65
ARROWHEAD AT VAIL ASSOC	0323	ARROWHEAD DR		EDWARDS	280294	COM	5.8
VAIL RESORTS	0011	CASTLE PEAK CLOSE	IRR	EDWARDS	280346	IRR	2.8
ALPINE CLUB	0160	CRESTA RD		EDWARDS	280364	MIX	27.3
ARROWHEAD ALPINE CLUB	0042	CRESTA RD	POOL	EDWARDS	280366	COM	1.5
ARROWHEAD AT VAIL ASSOCIATION	0041	CRESTA RD	REST ROOMS	EDWARDS	280375	COM	0.5
ARROWHEAD AT VAIL ASSOCIATION	0041	CRESTA RD	IRR	EDWARDS	280392	IRR	1
ARROWHEAD AT VAIL ASSOCIATION	0170	CRESTA RD	IRR	EDWARDS	280393	IRR	10.3
DAKOTA AT ARROWHEAD ASSOC	0328	SAWATCH DR	IRR	EDWARDS	280394	IRR	10.3
ONE ARROWHEAD PLACE	0142	ARROWHEAD CIR	IRR	EDWARDS	280660	IRR	2.6
VAIL RESORTS	0142	ARROWHEAD CIR		EDWARDS	280670	MIX	31.9
ARROWHEAD AT VAIL ASSOCIATION	0278	ARROWHEAD DR	IRR	EDWARDS	282044	IRR	2.6
ARROWHEAD METRO DISTRICT	0001	RIVERDANCE RD	IRR	EDWARDS	288191	IRR	9.1
ARROWHEAD AT VAIL ASSOCIATION	0169	ASPEN MEADOW DR	RESTROOMS	EDWARDS	289105	COM	1.5
TRAILSIDE HOA	2013	CRESTA RD	IRR A	EDWARDS	289137	IRR	5.8
TRAILSIDE HOA	2013	CRESTA RD	IRR B	EDWARDS	289138	IRR	5.8
ARROWHEAD RIVER RANCH HOA	0299	EAGLE RIVER RD	IRR	EDWARDS	289148	IRR	5.8
ARROWHEAD RIVER RANCH HOA	0100	EAGLE RIVER RD	IRR	EDWARDS	289149	IRR	5.8

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ARROWHEAD RIVER RANCH HOA	0080	EAGLE RIVER RD	IRR	EDWARDS	289152	IRR	5.8
ARROWHEAD RIVER RANCH HOA	0013	EAGLE RIVER RD	IRR	EDWARDS	289153	IRR	5.8
ARROWHEAD AT VAIL ASSOCIATION	0163	RIVERDANCE RD	IRR	EDWARDS	289224	IRR	2.6
MCCOY SPRINGS AT ARROWHEAD ASSOCIATION	0071	MCCOY SPRINGS CT	IRR	EDWARDS	289400	IRR	5.8
VAIL RESORTS	0001	PRIMROSE RUN	ZACH'S	AVON	110032	COM	10.3
VAIL RESORTS	0001	PRIMROSE RUN	ZACH'S CAB	AVON	110035	IRR	40.9
SNOWCLOUD PUBLIC ACCESS	0177	DAYBREAK RDG		AVON	110050	COM	10.3
BACHELOR GULCH VILG ASSOC	0010	ELKHORN	IRR	AVON	110061	IRR	0.6
BACHELOR GULCH VILG ASSOC	0200	TALL TIMBER	IRR	AVON	110062	IRR	0.6
VAIL RESORTS	0370	PRATER LN	IRR	AVON	110064	IRR	10.3
BACHELOR GULCH VILLAGE	0133	BACHELOR GULCH TRL	WOLF LOT	AVON	110065	IRR	10.3
VAIL RESORTS	0032	PRATER LN	BEAR LOT	AVON	110066	IRR	0.4
BEAVER CREEK LANDING	0028	BACHELOR GULCH TRL	BLDGS A+B	AVON	110069	MIX	59.8
BEAVER CREEK LANDING	0028	BACHELOR GULCH TRL	IRR	AVON	110071	IRR	2.6
BACHELOR GULCH VILG ASSOC	1087	BACHELOR RDG	IRR	AVON	110115	IRR	0.6
RITZ-CARLTON CLUB	0100	BACHELOR RDG		AVON	110221	MIX	59.8
BACHELOR GULCH VLG ASSOC	0285	HORIZON TRL	IRR	AVON	111020	IRR	0.8
BACHELOR GULCH METRO DIST	0133	BACHELOR GULCH TRL	MAINT BLDG	AVON	114111	COM	10.3
COLORADO MOUNTAIN COLLEGE	0150	MILLER RANCH RD		EDWARDS	170000	COM	10.3
EAGLE COUNTY	0450	MILLER RANCH RD	POND	EDWARDS	170001	IRR	
EAGLE COUNTY	0450	MILLER RANCH RD	FREEPRK RR	EDWARDS	170004	COM	5.8
EAGLE COUNTY	0450	MILLER RANCH RD	SPRAY PK	EDWARDS	170005	IRR	1.2
BATTLE MOUNTAIN HIGH SCHOOL (NEW)	0151	MILLER RANCH RD	BATTLE MTN	EDWARDS	170006	COM	40.9
WECMRD	0450	MILLER RANCH RD	FLD HOUSE	EDWARDS	170007	COM	5.8
BERRY CREEK METRO DIST	0100	MILLER RANCH - WINSLOW RD	INTRCHG	EDWARDS	170008	IRR	0.2
UERWA	0300	EDWARDS ACCESS RD	WASTE MTR	EDWARDS	170016	COM	0
UERWA	0450	MILLER RANCH RD	BRY CK WLS	EDWARDS	170017	COM	3
UERWA	0300	EDWARDS ACCESS RD	DWF RR	EDWARDS	170018	COM	
BERRY CREEK METRO DIST	0045	MILLER PL	IRR	EDWARDS	172656	IRR	0.7
BERRY CREEK METRO CHIP RAMSEY PARK	0020	STETSON DR	RR	EDWARDS	173930	COM	1.5
BERRY CREEK METRO DIST	0010	HEREFORD RD	IRR	EDWARDS	175925	IRR	0.4
SONNENALP PROPERTIES	0790	N WINSLOW RD	GC RR	EDWARDS	178160	COM	1.5
SONNENALP PROPERTIES	0080	S WINSLOW RD	GC RR	EDWARDS	178190	COM	1.5
BERRY CREEK METRO DIST	0600	CHAROLAIS CIR	IRR	EDWARDS	178200	IRR	3.5
BERRY CREEK METRO DIST	1010	BERRY CREEK RD	EVENT CTR	EDWARDS	178214	COM	2.6
SONNENALP PROPERTIES	1265	BERRY CREEK RD	CLUBHOUSE	EDWARDS	178220	COM	10.3
BERRY CREEK METRO DIST	0099	BERRY CREEK RD	IRR	EDWARDS	178233	IRR	1.9
SONNENALP PROPERTIES	2090	WINSLOW RD		EDWARDS	178750	COM	1.5
BERRY CREEK METRO DIST	1410	WINSLOW RD	IRR	EDWARDS	181040	IRR	0.2
BERRY CREEK METRO DIST	1420	WINSLOW RD	IRR	EDWARDS	181501	IRR	0
WIND ROSE PROPERTIES LLC	1620	BEARD CREEK TRL	RR	EDWARDS	240001	COM	1.5
WIND ROSE PROPERTIES LLC	0293	LEGENDS DR	RR	EDWARDS	240002	COM	1.5
CORDILLERA VALLEY CLUB METRO DIST	0001	BEARD CREEK TRL	GATE HOUSE	EDWARDS	240039	COM	1.5

CORDILLERA VALLEY CLUB METRO DIST	1051	BEARD CREEK TRL	IRR	EDWARDS	240045	IRR	2.6
CORDILLERA VALLEY CLUB METRO DIST	1519	BEARD CREEK TRL	IRR	EDWARDS	241250	IRR	1.5
WIND ROSE PROPERTIES LLC	1945	BEARD CREEK TRL		EDWARDS	241300	COM	1.5
CORDILLERA VALLEY CLUB METRO DIST	0619	BEARD CREEK TRL	IRR	EDWARDS	241320	IRR	1.5
CORDILLERA VALLEY CLUB METRO DIST	1793	BEARD CREEK TRL	IRR	EDWARDS	241450	IRR	1.5
WIND ROSE PROPERTIES LLC	0101	LEGENDS DR	GOLF CLBHS	EDWARDS	241510	COM	10.3
WIND ROSE PROPERTIES LLC	0101	LEGENDS DR	POOL	EDWARDS	241524	COM	2.6
WIND ROSE PROPERTIES LLC	1308	BEARD CREEK TRL		EDWARDS	241900	COM	1.5
CORDILLERA VALLEY CLUB METRO DIST	1313	BEARD CREEK TRL	TANK IRR	EDWARDS	241991	IRR	3.8
CORDILLERA VALLEY CLUB METRO DIST	0801	BEARD CREEK TRL	IRR	EDWARDS	244000	IRR	0.1
BERRY CREEK MIDDLE SCHOOL	0100	MILLER RANCH RD		EDWARDS	250009	COM	10.3
RIVERWALK BANK CONDO ASC	34215	HWY 6		EDWARDS	250015	COM	1.5
RED CANYON HIGH SCHOOL	1002	MILLER RANCH RD		EDWARDS	250017	COM	5.8
EAGLE COUNTY SCHOOL DIST	1121	MILLER RANCH RD	JUNE CRK	EDWARDS	250018	COM	23
CONGREGATION OF JEHOVAH'S WTNESSES	0400	BEARD CREEK RD		EDWARDS	250040	COM	1.5
EDWARDS BUSINESS CENTER	34520	HWY 6	BLDG C	EDWARDS	250050	COM	11.2
VAIL CLINIC INC	0320	BEARD CREEK RD	SURGERY CENTER	EDWARDS	250070	COM	5.8
VAIL CLINIC INC	0320	BEARD CREEK RD		EDWARDS	250071	COM	10.3
EDWARDS BUSINESS CENTER	34510	HWY 6	BLDG A	EDWARDS	250080	COM	7.1
VAIL HEALTH HOSPITAL	0322	BEARD CREEK RD	SHAW BLDG	EDWARDS	250085	COM	10.3
EDWARDS BUSINESS CENTER	34500	HWY 6	BLDG B	EDWARDS	250090	COM	8.3
EDWARDS PLAZA I LLC	0057	EDWARDS ACCESS RD		EDWARDS	250100	COM	5.8
EDWARDS PLAZA II LLC	0069	EDWARDS ACCESS RD		EDWARDS	250110	MIX	7.8
RIVERWALK CRYSTAL BLDG	34323	HWY 6	COMMERCIAL	EDWARDS	250111	COM	1.5
RIVERWALK EMERALD BLDG	0175	MAIN ST	CONDOS	EDWARDS	250113	MIX	5.4
RIVERWALK EMERALD BLDG	0175	MAIN ST	RETAIL	EDWARDS	250114	COM	1.5
RIVERWALK EMERALD BLDG	0175	MAIN ST	RSTRNT	EDWARDS	250115	COM	1.5
RIVERWALK AMBER BLDG	0216	MAIN COMMERCIAL ST		EDWARDS	250117	COM	1.5
RIVERWALK DIAMOND BLDG	0137	MAIN ST	GYM	EDWARDS	250118	COM	1.5
E-TOWN RESTAURANT	0295	MAIN ST	C-104	EDWARDS	250121	COM	2.6
RIVERWALK OPAL HOA	0225	MAIN ST		EDWARDS	250126	COM	2.6
RIVERWALK GARNET COM BLDG	0275	MAIN ST		EDWARDS	250128	COM	2.6
RIVERWALK QUARTZ COM BLDG	0280	MAIN ST	COMMERCIAL	EDWARDS	250130	COM	1.5
RIVERWALK RUBY BLDG	0295	MAIN ST	COMM	EDWARDS	250131	COM	2.6
RIVERWALK THEATER CONDO	34253	HWY 6		EDWARDS	250134	COM	1.5
CASCADE VLG THEATER INC	34253	HWY 6		EDWARDS	250135	COM	1.5
HCF REALTY LLC	34253	HWY 6		EDWARDS	250135	COM	1.5
RIVERWALK VILLAGE MARKET	34295	HWY 6	RESTROOMS	EDWARDS	250137	COM	2.6
RIVERWALK VILLAGE MARKET	34295	HWY 6		EDWARDS	250140	COM	1.5
RIVERWALK VILLAGE MARKET	34295	HWY 6	LAUNDRY	EDWARDS	250141	COM	1.5
RIVERWALK VILLAGE MARKET	34295	HWY 6	RETAIL	EDWARDS	250142	COM	1.5
RIVER CENTRE ASSOCIATION	0027	MAIN ST		EDWARDS	250143	MIX	26.8
RIVERWALK TOPAZ BLDG	34405	HWY 6		EDWARDS	250145	COM	1.5

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FIRST AND MAIN HOA	0097	MAIN ST		EDWARDS		250146	MIX	24.3
RIVERWALK DIAMOND BLDG	0137	MAIN ST		EDWARDS		250148	COM	1.5
GASHOUSE INC	34185	HWY 6		EDWARDS		250150	COM	2.6
CHARLIE KOMAR	33601	HWY 6		EDWARDS		250152	COM	2.6
EDWARDS BUILDING CENTER	33636	HWY 6		EDWARDS		250153	COM	1.5
UNITED COMPANIES	33415	HWY 6	BATCH PLT	EDWARDS		250156	COM	40.9
KEITH NOVICK	33415	HWY 6	BATCH PLT	EDWARDS		250156	COM	40.9
STORAGEMART PARTNERS III LP	32280	HWY 6		EDWARDS		250158	COM	1.5
POINTE	0081	EDWARDS POINTE	IRR	EDWARDS		250232	IRR	1
ERWSD EDWARDS ANNEX	0256	GOLD DUST DR		EDWARDS		251055	IRR	2.6
HOMESTEAD HOA	0941	GOLD DUST DR	IRR	EDWARDS		251110	IRR	0.3
HOMESTEAD HOA	0009	CASSIDY PL	IRR	EDWARDS		251600	IRR	0.2
EAGLE COUNTY	0025	MILL LOFT		EDWARDS		251840	COM	5.8
ERWSD EDWARDS ANNEX	3251	LAKE CREEK VILLAGE DR		CONST MTR	EDWARDS	253024	COM	1.5
ERWSD	3101	LAKE CREEK VILLAGE DR		EWWTP	EDWARDS	253050	COM	5.8
RONALD D GRUBER	0010	FOX HOLLOW DR	VET CLINIC	EDWARDS		253071	COM	1.5
MOSER BUILDING LLC	0012	FOX HOLLOW DR		EDWARDS		253072	MIX	3.5
CENTURYTEL	32466	HWY 6		EDWARDS		253079	COM	1.5
EDWARDS DESIGN AND CRAFT CENTER OWNERS ASSOC	0005	MURRAY RD	BLDG A	EDWARDS		253080	MIX	2.5
EDWARDS DESIGN AND CRAFT CENTER OWNERS ASSOC	0005	MURRAY RD	BLDG B	EDWARDS		253083	MIX	2.5
EDWARDS DESIGN AND CRAFT CENTER OWNERS ASSOC	0005	MURRAY RD	BLDG C	EDWARDS		253084	MIX	2.5
EDWARDS DESIGN AND CRAFT CENTER OWNERS ASSOC	0005	MURRAY RD	BLDG D	EDWARDS		253085	MIX	2.5
EDWARDS DESIGN AND CRAFT CENTER OWNERS ASSOC	0005	MURRAY RD	BLDG E	EDWARDS		253086	MIX	2.5
EDWARDS ELEMENTARY SCHOOL	1122	MEILE LN		EDWARDS		257000	COM	10.3
TRINITY CHURCH	0090	LARIAT LOOP		EDWARDS		257960	COM	1.5
TRINITY CHURCH	0090	LARIAT LOOP		EDWARDS		257970	COM	2.6

EAGLE RIVER
WATER & SANITATION
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Attachment 4

Section C: Service Area & Population

Population Analysis

Clean Water. Quality Life. ™
846 Forest Road Vail, Colorado 81657 Tel (970) 476-7480 Fax (970) 476-4089 erwsd.org

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Attachment 4: Edwards WWTF Service Area Population Estimate

Covered Entity:	Population Served:	Population Data Source:
Bachelor Gulch, Arrowhead, Mountain Star, Wildridge, Edwards, Singletree, Homestead, Cordillera, and Cordillera Valley Club. Treated by Edwards Wastewater Treatment Facility (EWWTF).	6,655	State Demographer's Office (SDO)- Estimate of Total Population by Municipality for Edwards
Transient **Treated by EWWTF.**	2,852	SDO - Average Transient Population Served= average Overnight Visitors + 2nd Homeowners
Total Population Served	**9,507**	

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Attachment 5

Section D: Flows and Discharges

Location Map with Discharge Point

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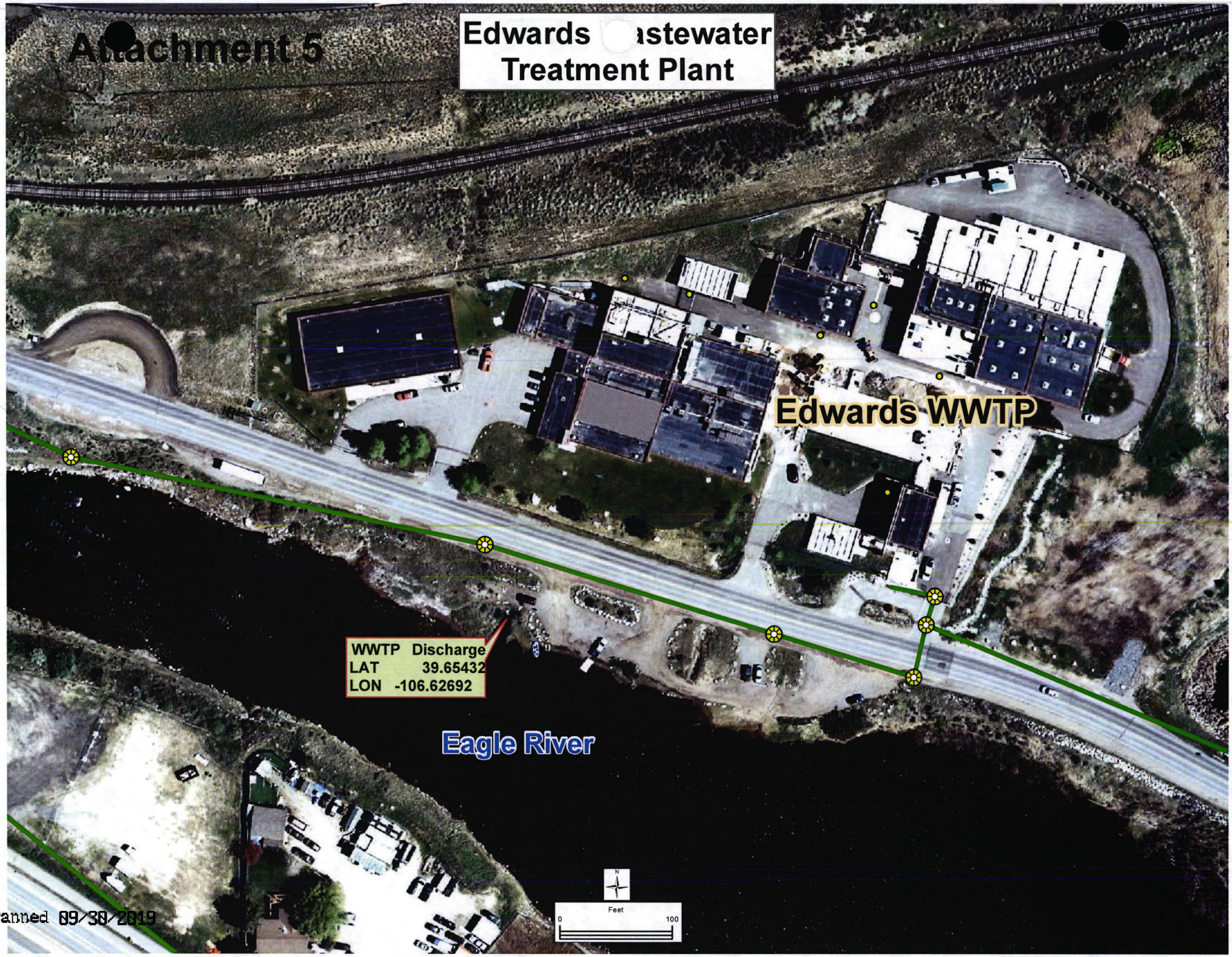
Attachment 5

Edwards Wastewater Treatment Plant



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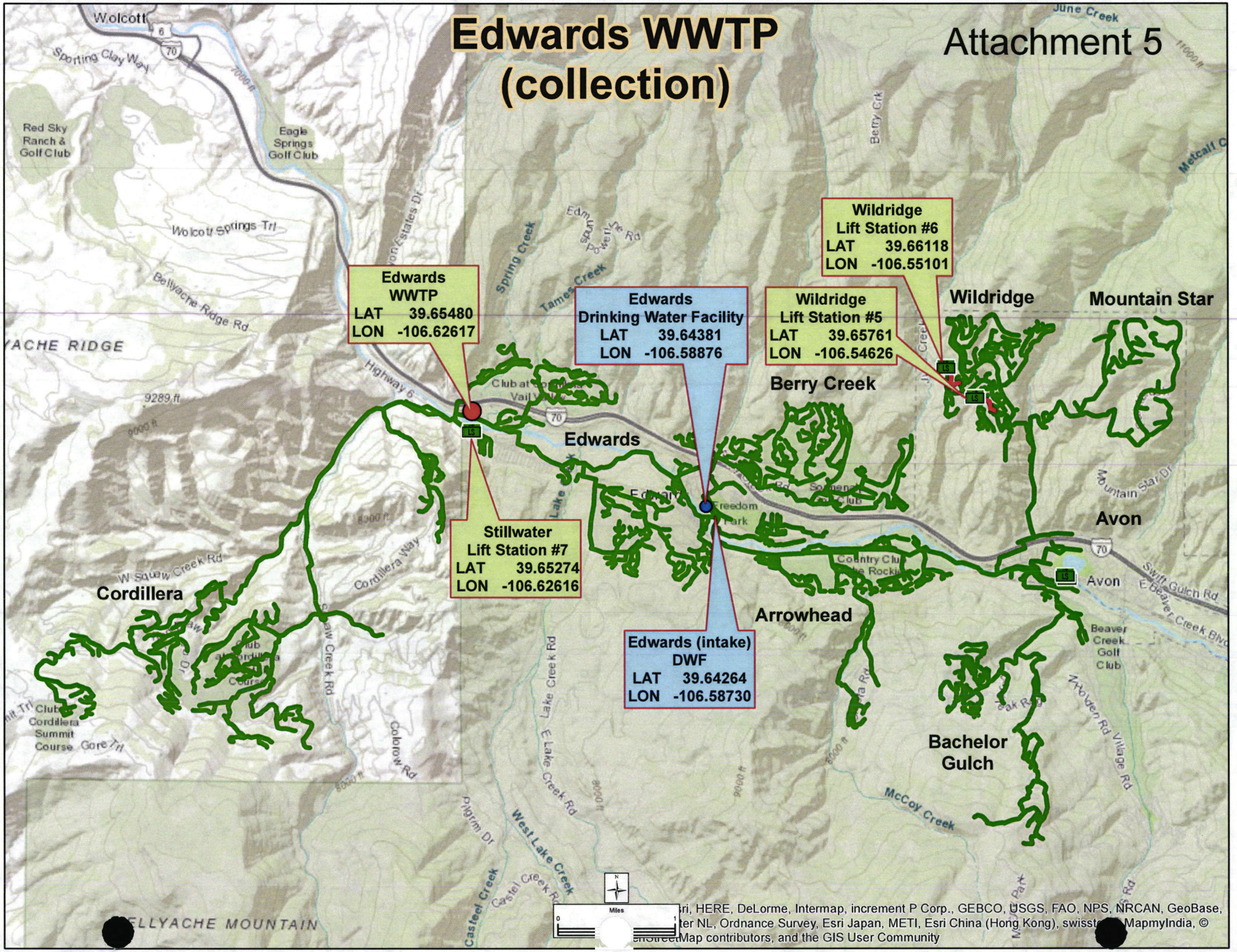
Edwards WWTP (collection)

Attachment 5



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Attachment 6

Section D: Flows and Discharges

Diagrams of the Site

-Aerial

-Flow Diagram

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EWWTP Site Diagram- Attachment 6

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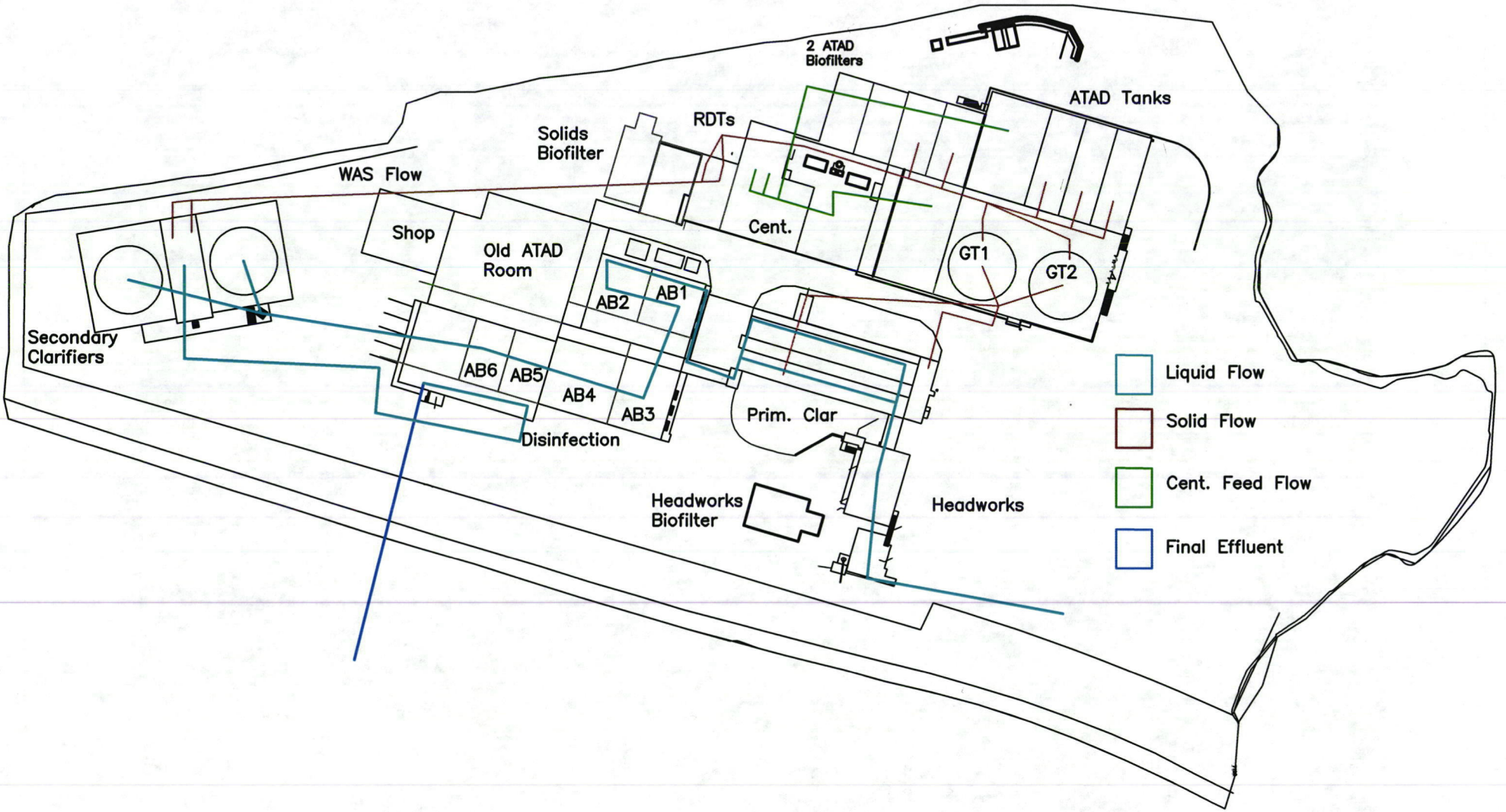
Attachment 6. Diagram of the Site



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Attachment 6

A schematic of the existing treatment processes at the Edwards WWTF is shown in Figure 4.5; the design criteria for the liquid stream are summarized in the appendix of TM No. 3. A schematic of Edwards WWTF aeration basin flow for current operations is shown in Figure 4.6.

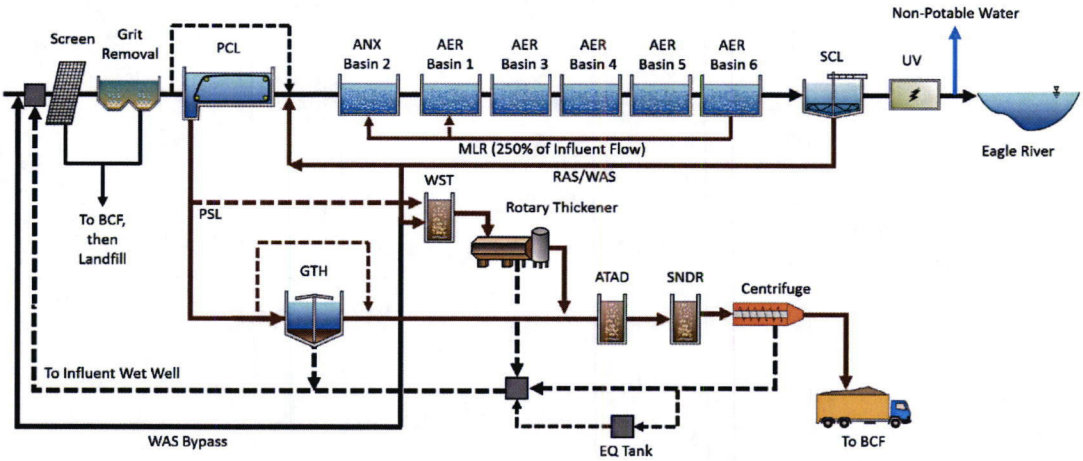

Figure 4.5 Edwards WWTF Liquid and Solid Stream Simplified Process Flow Diagram

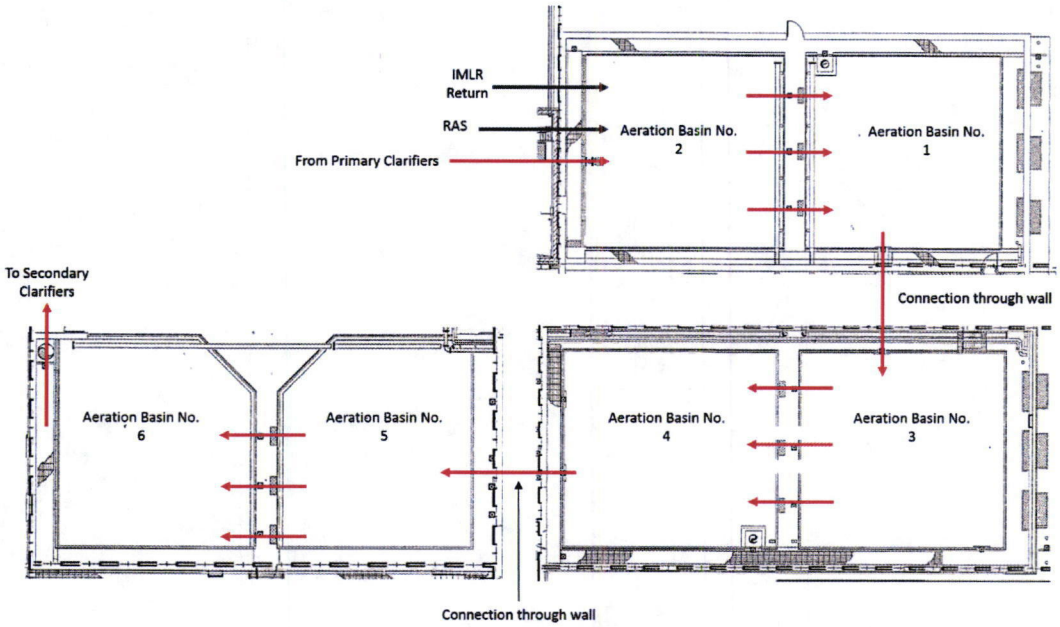

Figure 4.6 Edwards WWTF Aeration Basin Flow Schematic for Current Operations

Edwards has operated the secondary process with all aeration basins in service since the MLE process was implemented in 2014, with primary effluent flowing from Basin 2 through Basins 1, 3, 4, 5 and 6. The aeration basins can only be operated as a single treatment train. The Edwards

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Section F: Treatment Facilities and Sewer System

Collection System Narrative

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Eagle River Water & Sanitation District- Edwards Wastewater Treatment Plant

Collection System- Infiltration/ Inflow

A. Does the 30-day average flow to the facility exceed 120 gallons per capita-day (gpcd) during any month?
If so, attach a discussion of the extent of the problems (quantities, sources, etc.) and any ongoing or proposed correction programs (including scope and budget of programs). Attach a copy of the pertinent portions of any I/I studies which have been completed.

B. Attach a description of any ongoing sewer system maintenance/repair/rehabilitation programs.

C. Attach a description of any ongoing interceptor flow monitoring programs if such data is collected. Include a description of monitoring techniques, the locations of monitoring points and any pertinent data.

Improvements: Are any facility or collection system (I/I reduction) expansions or improvements planned during the next five years? If so, describe the extent of the expansions/improvements and list any proposed schedules for planning, design and construction. Any ongoing or proposed correction programs (including scope/budget), any I/I studies, ongoing sewer system maintenance/repair programs, ongoing interceptor flow monitoring programs, or I/I reduction planned in the next 5 years?

A. **No.** Our calculations show that the 30-day average flow to the facility does not exceed 120 gallons per capita-day during any month. The District used the following formula which also accounts for the tourist volume (transient population) within the service area:

$$\boldsymbol{Avg\ Flow\ to\ Facility\ (gpcd)} = \frac{Daily\ Avg\ Influent\ Flows\ (mgd)}{Population} \times \%\ Residential\ /\ Visitor\ Flows$$

Based on the Division's approach for calculating I&I for tourist areas with highly variable seasonal flows, the District assessed both high and low flow seasons, (both the maximum and minimum flow months) as described below.

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Calculation of daily average influent flows:

During the last calendar year, the average daily influent flows (MGD) during the 3 *maximum* flow months were:

December = 1.132 MGD August 1.110 MGD July = 1.059 MGD

Therefore, the daily average influent flow for the 3 *maximum* flow months was **1,100,337 gallons.**

During the last calendar year, the average daily influent flows (MGD) during the 3 *minimum* flow months were:

October = 0.874 MGD March = 0.836 MGD May = 0.790 MGD

Therefore, the daily average influent flow for the 3 *minimum* flow months was **833,476 gallons.**

Average Daily Population:

The Edwards Wastewater Treatment Facility treats wastewater from the communities of Mountain Star, Bachelor Gulch, Singletree, Cordillera Valley Club, Wildridge, Arrowhead, and Cordillera The average daily population estimate is 9,507 for this service area. Table 1 shows the estimate of the total population served by the Edwards WWTF.

Percent Residential / Visitor Flows:

To determine the percent of residential flows, total estimated flows for type of taps were used in the calculation (from table on page 4 of the permit application). The total estimated residential flow for the Edwards WWTF service area is 1.13 MGD. Total combined (residential, industrial, commercial and other) flow for the Edwards WWTF service area is 1.384 MGD. Therefore, the percent of residential flows **is 81.6%** (1.13 MGD/1.384 MGD x 100).

Gallons per capita per day:

During the maximum flow months, the average daily flow (gallons per capita-day) to the facility is:

$$\frac{1{,}100{,}337\ gallons}{9{,}507\ population} \times 81.6\ \%\ Residential\ Flows = \mathbf{94.5\ gcpd}$$

During the minimum flow months, the average daily flow (gallons per capita-day) to the facility is:

$$\frac{833{,}476\ gallons}{9{,}507\ population} \times 81.6\ \%\ Residential\ Flows = \mathbf{71.6\ gcpd}$$

B.

The District began the cleaning, inspection and assessment program with a focus on the known problem areas and the older sections of the collection system. The results of the cleaning, inspection and assessment program are used to categorize the cleaning frequency and the repair or replacement needs for each component. Critical infrastructure components will also be identified and assessed. Previous knowledge of the condition of the collection system has also been used to establish more frequent cleaning for higher priority areas. The cleaning, inspection and assessment efforts are performed by Field Operations staff. All data are entered into Cityworks, the District's maintenance software for scheduled maintenance and capital improvements, via inspections and work orders.

The cleaning, inspection and assessment program includes collection system cleaning, CCTV inspection of piping, visual inspection and classification of the manhole structures and their flow channels, and an evaluation of the condition of the pipes and manholes. Results from the assessment program are used to assist in categorizing the cleaning and inspection frequencies for the problem pipe-sections.

The cleaning and CCTV schedules are closely coordinated. Currently two Cleaning crews are sent ahead of one CCTV crew. The Cleaning crews generally complete cleaning the pipe segments ahead of the CCTV assessment. Due to this constraint, cleaning the entire system can be conducted every five years. Approximately ten percent of the system is assessed by CCTV each year with a goal of completing an assessment of the entire system in ten years. Approximately twenty percent of the system is cleaned annually: the cleaning performed each year includes priority cleaning plus 20 percent of the remaining parts of the collection system, factoring in the intermediate and long-term interval cleaning schedules. Most of the system cleaning is for gravity lines.

Information from cleaning and inspections, including any findings, or defects, and are entered into Cityworks. This information will also be used to update the long-term Preventive Maintenance Plan (PMP) that is currently under development.

A summarized list of the District's ongoing Collection System Preventive Maintenance Activities includes:

- Scheduled cleaning and inspection of gravity sewers and manholes; more frequent cleaning occurs in areas with a history of stoppages due to sediment, roots, debris, and fats, oils, and grease to minimize the potential for SSOs . All sewer gravity mains that are treated by the Edwards Wastewater Treatment Plant (530,045 feet) were cleaned in 2015, 2016, and 2018 with the remaining scheduled to be cleaned in 2019 (77,890 feet) as a part of the five year jetting program;

- Root control in areas that are known to have recurring SSOs or premature structural damage due to root intrusion. The chemical root control program is new and should commence in summer of 2019;

- Recording, investigating and resolving customer complaints;

- Pump station inspections, maintenance, repair and emergency power load tests for two Lift Stations located in Avon and one Lift Station in Edwards. Inspections are completed weekly on all Lift Stations;

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• Scheduled inspection and/or cleaning as needed of force mains;

• Easement maintenance for access to collection system components - completed annually; and

• Evaluation and assessment via CCTV using NASSCO PACP/MACP defect coding and grading. The systematic CCTV Program goal is assessment of the entire collection system every ten years.

The District's repair and rehabilitation activities include:

- Manhole chemical grout injections- Conducted as a pilot in 2017 on 15 manholes located in East Vail. Further chemical grout injections to be conducted in 2020.
- Five Year jetting program of all sewer gravity mains cleaned within five years.
- CCTV inspections with PACP defect coding. Goal for entire system to be televised within 10 years.
- Replaced pressure transducer and controls for Draw Spur Lift Station #5 in 2018.
- Collection System Master Plan underway and should be complete by end of 2020. We plan to include condition assessment information in the plan with a prioritization schedule for rehab/replacement needs over the next five years.

Over the next five years, the District is planning to complete the following projects for the Edwards Wastewater Treatment Facility area collection system:

- Collection System Master Plan with condition assessment priority schedule to be completed end of 2020. We have budgeted $200,000 in 2020 to conduct this.
- New Stillwater Lift Station #7 located in West Edwards. This Lift Station came online in August of 2019. The cost for construction of this Lift Station was approximately $600,000.
- Private Service line I&I contribution analysis and development of future program to target and reduce I&I from customer owned service lines. Purchase of lateral launch CCTV camera system in 2020 to assist in the analysis of this program. We have budgeted $200,000 in 2020 towards the purchase of the lateral launch CCTV system and $50,000 towards the initial study of private service line I&I contribution Collection System Wide.
- Collection System Flow Monitoring Program - Working with in-house staff to develop flow monitoring program for the entire collection system. Our intention is to roll out the flow monitoring program once the master plan is complete end of 2020. We approximate the cost to be around $100,000, which takes into account the purchase of new flow monitoring devices.
- For unplanned repairs and out of period improvement projects related to Collection System assets we budget annually $200,000

The total estimated cost of rehabilitation and repair projects in 2020 is approximately $1,350,000.

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Attachment 8

Section F: Treatment Facilities and Sewer System
Lift Station Map

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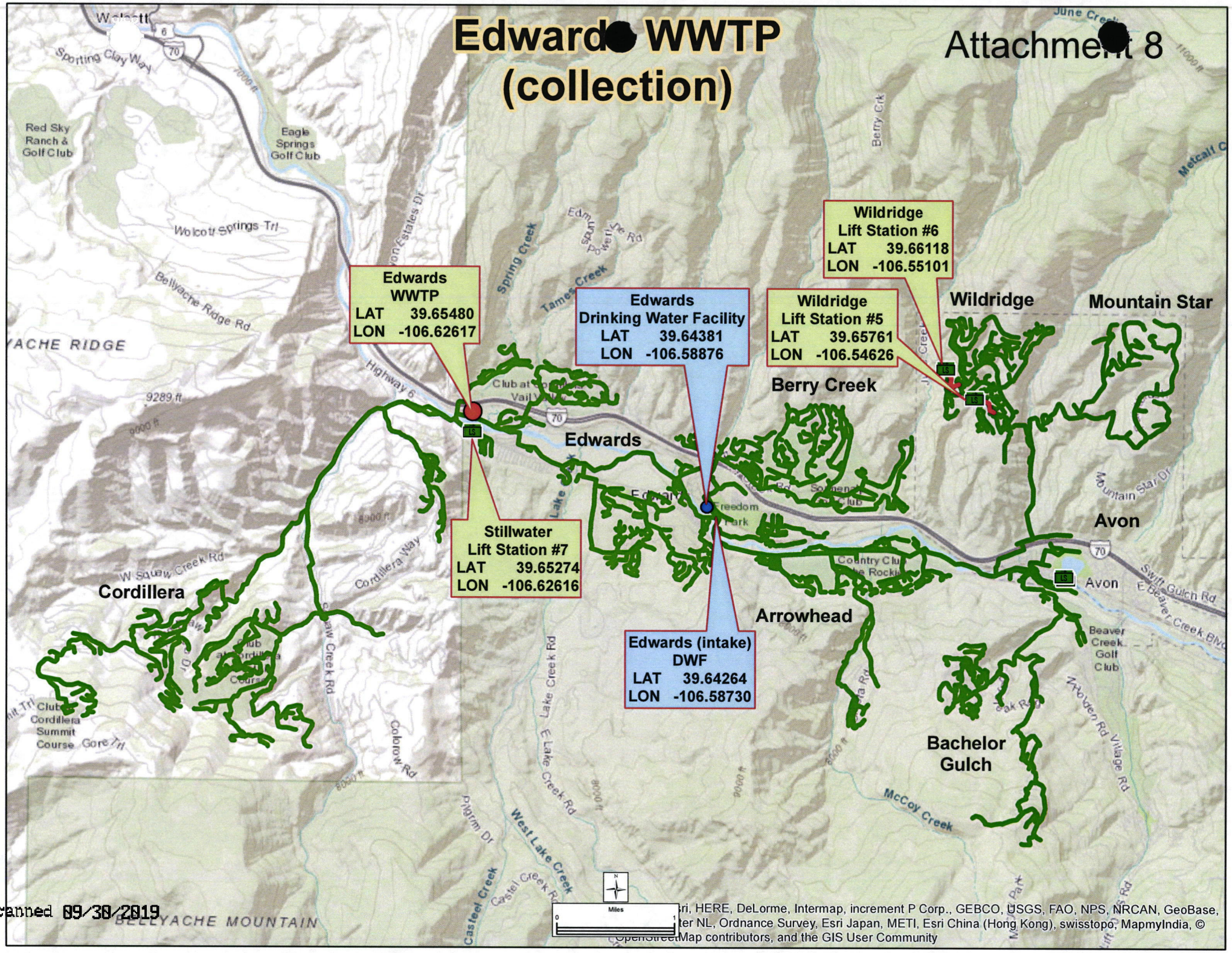
Edwards WWTP (collection)

Attachment 8



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Attachment 9

Section G: Operation and Management

Wastewater Operating Plan

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2019 Wastewater Treatment Operating Plan

In accordance with the Colorado Department of Public Health and Environment

Water Quality Control Division

Regulation No. 100

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Date Last Revised	April 8, 2019
Annual Review Date	December of each year
Drafted By	Siri Roman, P.E., Wastewater Manager
Approved By	Tim Drescher, ORC of Vail WWTF & Avon WWTF Parker Newbanks, ORC of Edwards WWTF & Biosolids Manager
Facilities	Vail Wastewater Treatment Facility Permit No. CO 0021369 846 Forest Road, Vail CO 81657
	Avon Wastewater Treatment Facility Permit No. CO 0024431 950 West Beaver Creek Blvd, Avon, CO 81620
	Edwards Wastewater Treatment Facility Permit No. CO 0037311 3101 Lake Creek Village Drive, Edwards CO 81632
Main Facility Phone	970-476-7480
Objective	Operating Plan outlines wastewater treatment operation activities and delegation of duties, in accordance with Colorado Regulation No. 100.

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BACKGROUND

The Eagle River Water and Sanitation District (District) owns and operates three wastewater treatment facilities (WWTF) at Vail, Avon and Edwards. The Vail WWTF current rated average day maximum month (ADDM) treatment capacity is 2.7 million gallons per day (mgd), the Avon WWTF is 4.3 mgd, and the Edwards WWTF is 2.95 mgd, with a pending capacity re-rating to 2.83 mgd. The three facilities are connected via a sanitary sewer collection system and all solids are currently treated at the Edwards WWTF.

The wastewater operations teams (wastewater certified operators) perform the operations, maintenance, and management of the District's WWTFs. The collection system and associated lift stations are operated and maintained by the field operations team (collection and distribution certified operators). A separate Collections System operating plan is being developed by the field operations team.

PURPOSE

Pursuant to Regulation 100 (§100.11.6), this Operating Plan describes the tasks or activities the Operator in Responsible Charge (ORC) may delegate to other facility operators when the ORC is not onsite. Any operational activity beyond the limits defined in this operating plan requires the immediate and direct consultation with and participation of a certified ORC or another operator holding a level A certification. The goals of this operating plan are:

- To ensure all operators understand their roles and responsibilities for both routine and emergency operations at the District's three WWTFs
- To ensure the system remains under the direct supervision of the ORC, even when he/she is not onsite, as specified in Regulation No. 100

STAFFING

Since the District's three WWTFs are interconnected, the District cross-trains operators at numerous plants in an effort to reduce operational risk and provide staffing redundancy. To increase communication and further connect the three facilities, an Operator from each facility participates in a daily call at 11:55 a.m. to discuss the daily process numbers and operations of each facility.

When fully staffed, the Vail WWTF will have 5 operators (including the Supervisor/ORC), the Avon WWTF will have 5 operators and the Edwards WWTF will have 6 operators. The Edwards WWTF team is responsible for district-wide solids handling and maintains the biosolids containment facility.

Siri Roman, the Wastewater Manager, is a registered Professional Engineer (PE 0042750). She is not an Operator and therefore does not make operating decisions. Siri is responsible for wastewater planning efforts, instream and watershed water quality matters, budgeting, employee engagement and development, and communications with the public and CDPHE in the event of potential permit noncompliance, upset conditions, or unsafe or hazardous conditions.

With the pending changes to Regulation 100, the District's three facilities will be classified as Class A facilities in 2021; we are therefore requiring that all facilities be managed by ORCs with level A certifications. Table 1 lists the current operators, their level of certification and the facilities that they have experience operating.

Table 1 - Wastewater Operations Team

Name	Hire Date	Certificate	Certification Level	Vail WWTF	Avon WWTF	Edwards WWTF
Brianne Accola	April 2016	32162	A		X	
Michael Cushman	March 2018	36425	D	X		
Tim Drescher (ORC)	Aug. 2007	28873	A	X	X	
Graham Glass	April 2018	36061	D		X	X
Alex Hintz	Feb. 2016	35107	A	X		X
Vance Holzmann	July 2017	35088	C		X	
Tim Kashiwa	Sept. 2018	36967	D		X	
Byron Nelson	March 2014	31440	A			X
Dustin Nelson	Oct. 2013	35344	A			X
Parker Newbanks (ORC)	Sept. 1996	1730	A	X	X	X
Hazel Selander	Feb. 1998	1454	A	X	X	
Nick Tessmer (ORC)	Aug. 17, 2015	34827	B	X	X	
Hannah Whitton	May, 2018	00055-0319	D		X	
Jeff Wright	March, 2007	15819	A	X	X	X
Vail WWTF Operator	VACANT					
Vail WWTF Operator	VACANT					

Each facility has a slightly different schedule, but an operator is onsite every day at each facility. Each night, an operator at each facility is paid to be on call to respond to critical alarms or facility emergencies.

SUPPORT TEAMS

The water quality laboratory consists of five employees and provides significant support the wastewater teams, including training, laboratory SOPs, QA/QC, field sampling guidance and support and regulatory guidance.

The Information Technology (8 employees) and Operational Technology Services (8 employees) departments provide support to the wastewater team and facilities. These support teams are on call and available 24/7. See attached appendix for the roles and responsibilities of these teams.

Approved 09/30/2019

OPERATING PLAN

It is the intent that each facility ORC can assign a senior A operator as the acting ORC when the Supervisor/ORC is unreachable or unavailable. The acting ORC will have the same responsibilities as the ORC when the ORC is unavailable, including making operational decisions that may impact public health and the environment. The acting ORC will be trained to make all process decisions listed in Table 2 and will also demonstrate understanding of the discharge permit requirements and be able to complete the monthly discharge monitoring report (via NetDMR). The acting ORC will consult with the WW Manager or another facilities' ORC regarding any personnel or supervisory issues that may arise while they are acting as ORC.

Nearly all operational tasks, duties, and activities are pre-delegated to the operations team. With oversight from the ORC or an acting ORC (A Operator trained to serve in the ORC role as defined above), the operations team on duty is trained and equipped to confidently carry out all normal operational activities, without needing to seek approval from the ORC or acting ORC. Items that require ORC or acting ORC consultation or decision are listed in Table 2.

Table 2 defines the limits of each task, activity, or decision, which mandates the ORC be contacted for discussion and/or decision making.

Table 2 – ORC Notification Activity List

Task of Activity Description	Facility
Influent Pump Failure	EWW
Barscreen Failure	ALL
Primary on/offline	EWW & AWW
Primary mechanism failure	EWW & AWW
Aeration Basins on/offline	ALL
Aeration Basins configuration and flow routing	ALL
Aeration Blower Failure	ALL
RAS, IMLR and Wasting changes (>50% change)	ALL
Secondary Clarifiers on/offline	ALL
UV Failure > 15 mins	ALL
Diversion of WAS to headworks or waste tank	EWW
If all 5 ATADs are online	EWW
Dewatering Failure (both centrifuges)	EWW
Compliance composite samplers failure	ALL
Prolonged Power Failure or running on emergency power (>1 hrs)	ALL
Prolonged Odor control failure (>2 hrs)	ALL
Potential permit non-compliance	ALL
Safety - any injury that requires medical help	ALL
Emergency bypass	ALL
Fire Alarm	ALL
Gas Leak	ALL
Auto Accidents	ALL

Customer Complaints	ALL
SCADA failure (>2 hours)	ALL

Staff should consult Standard Operating Procedures (SOPs) for guidance on specific tasks. Staff should be familiar with and use appropriate personal protective equipment (PPE) as needed for all tasks, and follow all established safety protocols.

Additional Procedures and Resources

Onboarding Manual

To establish base expectations and provide guidance for new employees, the operations team has prepared an Onboarding Manual for each new employee hired since 2016. This manual contains the discharge permit, organizational chart, Dstrict values and mission, demonstrated skill sign-off forms for each process area, training resources, and laboratory SOPs.

Facility-Specific SOPs

Each facility maintains specific standard operating procedures (SOP), located on the District's network and a comprehensive list of each facility's SOPs are in the attached appendix.

Computerized Maintenance Management System

The District is upgrading its computerized maintenance management system (CMMS) to CityWorks. The Avon WW team is currently operating the new system; Edwards and Vail WW are being trained and the system will be live in spring 2019.

Vendor Operations and Maintenance (O&M) Manuals

Each facility maintains hard copy and electronic O&M manuals. Staff is in the process of cataloguing the O&M manuals per process area.

In-house Training

Each year, the Wastewater Manager and the Laboratory Supervisor host Permits 101 and Compliance Evaluation Inspection 101 trainings for the wastewater operators and the laboratory staff.

The District's Safety Coordinator hosts in-house required safety trainings annually. Required trainings include:

- Confined Space Entry (Full Class Annually/Refresher class afterwards)
- Lock Out Tag Out (Initially)
- Hazardous Communication (Initially/Refresher annually)
- First Aid (Bi-Annual)
- CPR (Bi-Annual)
- Fork Lift (Initially)
- SCBA Refresher (Annual)

Other trainings led by the Laboratory Supervisor, Safety Coordinator or Wastewater Manager include:

- Ergonomics
- Harassment

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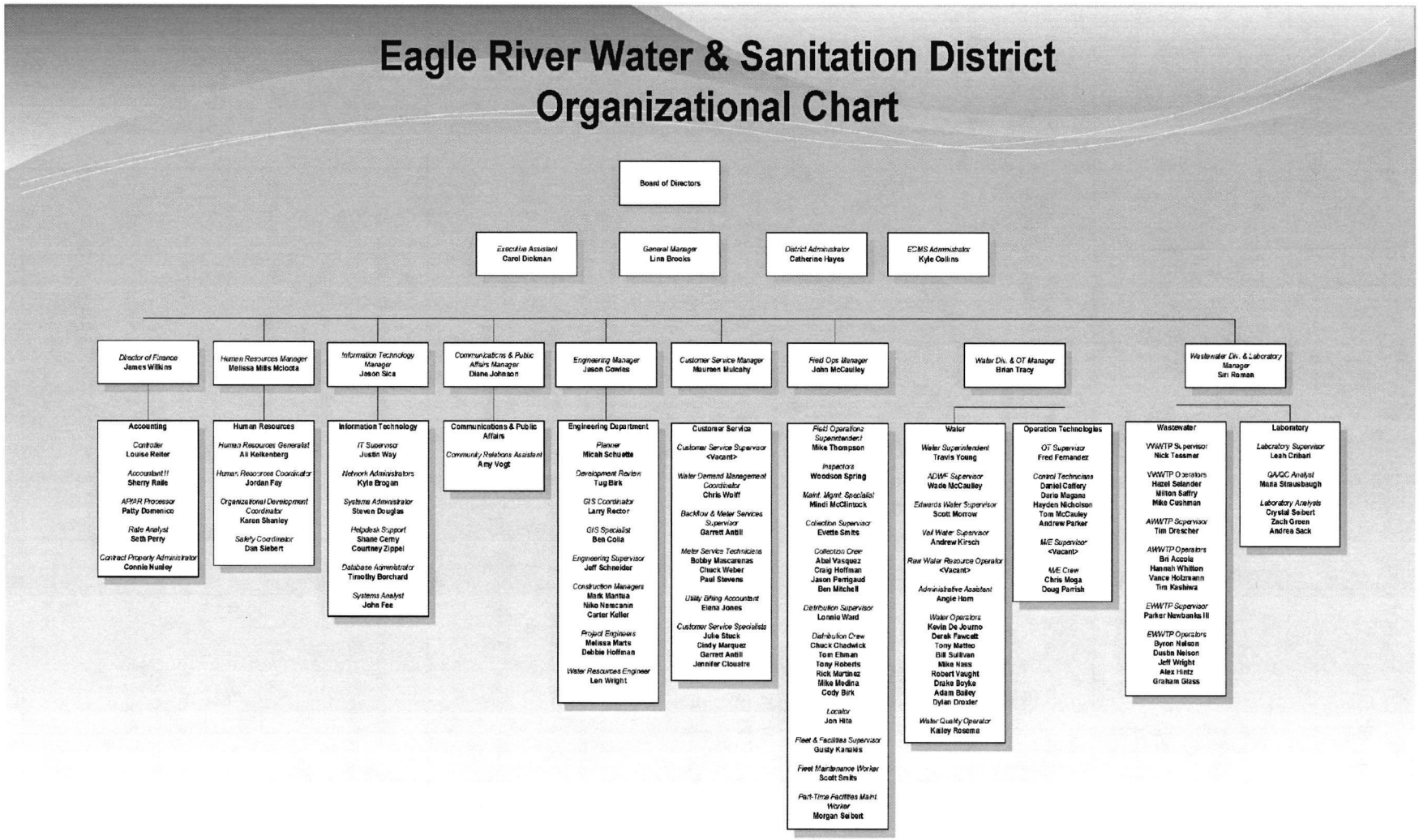
- Lifting/Back Safety
- Fire Extinguisher
- Blood-Borne Pathogens
- Emergency Response Review
- Stormwater and Hazardous Spill Response
- Temperature calculations for wastewater permits
- Flow training
- Compliance Evaluation Inspection 101
- Permits 101
- Microbiology in Wastewater
- UV and Ozone Disinfection and One Water
- Annual Biomonitoring Results

Appendix A: Organizational Chart



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Appendix B: Information Technology, Operational Technology Systems Roles and Responsibilities

IT	OTS	OTS
Desktop level support – • desktops, laptops, mobile devices, printers, fax machines, desk phones • Windows OS support • Provides IP into network and solarwinds • Adds PLC onto network map	PLC's • Program management • Ladder Logic editing • Can troubleshoot CAT6 from PLC to switch • Notify IT of PLC addition or removal	Motor Control Circuits • Troubleshooting, replace in kind, installation, VFDs, soft starts, contactors, relays, cabling, de-energized work
Network infrastructure support and development • Low Voltage – Ethernet/Phone wiring • Network interface configurations & monitoring (i.e. Solarwinds + other tools) • Ownership and maintenance of documentation • Maintenance and configuration of all Centurylink, Comcast, and misc communications accounts (ex: Blue River) •Switches	Radio Networks (RTU) • Radio network configuration, and communications pathways to switch • Can troubleshoot CAT6 to switch and from switch to PLC (pinging x, y, & z). Then loop in IT if needed.	Electrical Support • Facility Requests • Troubleshooting • De-energizing & energizing equipment
User Access: • Remote Connectivity – Remote Desktop, VPN access, Virtual Desktop Implementation (VDI) • Network logins for the SCADA, DMZ, and Admin Active Directory domains. • Software account access ex: iHistorian, Proficy SCADA Mobile, Exchange email.	Low voltage wiring and electrical cabinets • 24V AC/DC • 120V • Not responsible for access to 480V cabinets and zero energy state confirmation • iFix security	
Disaster Recovery / SCADA • Nightly back-ups & off-site replication • Data recovery • WIN911 call-out issues, software updates • iHistorian trend recovery	SCADA, Screens & HMI (SCADA) • Screen development • Special alarm strategies & flow (WIN911 block, auto-dialers, content editing) • Auto-dialers	
iHistorian / iFix / Trends • Flatlines, trend loss, no trends, no data • Maintain data request platform (allows user to generate their own reports) • iHistorian trend recovery	iHistorian / iFix / Trends • Tag management (iHistorian) • Tag database management • Visualization of trends • User interface • OT will investigate trend source issues (tags)	
Additional • System and server room environment monitoring • Software configuration and troubleshooting • Monitoring SCADA environment during power outage	Additional • Controls, instrumentation, alarming • Operational configuration and troubleshooting • Post power outage support	Additional • Power outage support

Appendix C: Vail Wastewater Facility SOP

1. Preliminary Treatment	Cleaning Barscreen Cleaning Grit Hopper LEL Alarm re-set
2. Flow Equalization	Guidance on EQ System
3. Aeration	Aerator Offline Aerator Online Restart Blowers
4. Clarifier	Clarifier Offline Clarifier Torque Overload Pumping Down Clarifier Groundwater Scum Removal from LP-7 BW Basin Two Clarifiers Online
5. Nitrification	Ammonia Tote Guidance on Nitrification Airflow Nitrification Backwash Procedure Nitrification Backwashing Condensed WTW Ammonia Parameters
6. Disinfection	
7. Odor Control	Internal Odor Complaints
8. Laboratory	Hach Sampler OUR Procedure Sample Collection Used COD Vials YSI Ammonia Matrix Adjustments
9. Non-potable Water System	Non-potable Water Tank Cleaning
10. Emergency Power	Emergency Power Blower #5 Emergency Power Power Outage Checklist Transfer Switch Test
11. HVAC	Loss of Automation – HVAC Controls
12. WAS	Guidance for F to M Calculator Wasting
Operations	Filament Control Process Control VPC Input Process Control Vail Daily Routine Vail Morning Routine Condensed Vail Office Alarm Info

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Appendix D: Avon Wastewater Facility SOP

1. CALL OUT HELP	
Power Outage	• 480 Volt and Resetting Policy 112210 • Operational aid – blower coast down timer • Power Outage Equipment Checklist
Channel 1 ***RAS_IMLR Pumps***	• AB 1B High Level Alarm • IMLR Pump Failure • RAS Pump Failure • Water on Floor Alarm
Channel 2 ***AB_Nitro Airflow***	• Nitrification Low Airflow • North and South AB Low Airflow
Channel 3 ***UV_Headworks LEL***	• Headworks LEL alarm • Major and Critical UV alarms • MAU-1 Ozone alarm
Channel 4 ***WAS Pumps***	• WAS Pump 1 & 2 Failure
Channel 5 ***Generator***	• Generator Common and Running alarms
Channel 6 ***Secondary Clarifiers***	• Clarifier 1 & 2 Not Running Alarm • Clarifier 1 & 2 Shear Pin Alarm • Clarifier 1 & 2 Torque Alarm
Channel 7 ***Scrubber, EF-10***	• Chemical Scrubber Fault • EF-10 & 10A Low Airflow Alarm
Channel 8 ***Non-Pot***	
Channel 9 ***Headworks***	• BS0191 & BS-102 Fail to Start and Fail to Run Alarms • CM-110 & CM-111 High motor Temp & Fail to Run Alarms • LITA-101 and Influent Channel High Level Alarm
Channel 10 ***ATAD***	• ATAD 1,2,3 and Post High Levels
Channel 11 ***EQ Basins***	• EQ Basin High Level Alarm
Channel 12 ***Comm Fail***	• Comm fail all alarms
Channel 13 ***Blowers***	• All Blower Starter Fault and Fail alarms • Master Blower Control Panel System Fail
Channel 14 ***TSS***	• Clarifier TSS • Final TSS
Channel 15 ***ORP***	• Odor Scrubber ORP and pH alarms
Channel 16 ***Ferric Chloride***	• LI-650 and LI-651 High and Low Alarms • Water on Floor Alarm

AWW Auto Dialer call-list	
Callout SOP	
On Call Forwarding	

2. PRELIMINARY TREATMENT

Grit
Headworks

3. PRIMARY

Primary Sed
Putting a Primary Clarifier Online
Dewatering Primary Clarifier 2.0
Dewatering Primary Clarifier

4. SECONDARY TREATMENT

Aeration Basin
Blower Room
Dewatering South Aeration Basin
North A-Basin being taking offline
Putting south basin online
RAS Pumps
Sec. Clarifier Room
Secondary Clarifier (One Clar to Two Online)
Secondary Clarifier (Switching)
Secondary Clarifier (Two online to one)
WAS Pumps
Wasting Rate Calculation

5. POLISHING CELLS

Polishing Cell Backwash

6. DISINFECTION

Trojan UV SOP

7. EQUALIZATION

EQ tanks

8. ODOR CONTROL

ATAD EFs
Chemical Scrubber
Odor Scrubber Checklist
Odor complaint external and internal

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Scrubber Cleaning SOP

9. **HVAC**
   HVAC Protocol

10. **ERWSD SUPPORT GROUPS**
    IT On Call Callout Procedure

11. **CITYWORKS MAINTENANCE**
    Closing a work order on cityworks
    Making a corrective maintenance
    Tips for using Cityworks

12. **LAB**
    Ammonia
    Avon Samples
    DRRSOP
    Orion Meter – Ammonia Measurement

13. **SAFETY**
    Bulk Chemical Storage
    Chemical Spill Response
    Bulk Chemical Offloading and Receiving

Appendix E: Edwards Wastewater Facility SOP

1. **HEADWORKS**
   - Grit Chamber Annual Maintenance
   - Headworks A.M. Sampling
   - Influent Pump Bypass
   - Lock up Checklist Headworks and primary Pump room
2. **PRIMARY CLARIFIERS**
   - Primary Grinder Cleaning
3. **AERATION BASINS**
   - AB-2 Anoxic to Nit
   - Blower Start-Up
   - Blowers
   - DO Probe Calibration
   - Soda Ash Line Flush
   - Soda Ash SOP
4. **SECONDARY CLARIFIERS**
   - Secondary Clarifier Shut Down
5. **UV**
   - UV Cleaning
6. **ATAD**
   - FIT.8680 Cleaning
7. **DEWATERING**
   - Centrifuge Lockout Tagout
   - RDT Weekly
8. **ODOR CONTROL**
   - EWW Odor Call Out Data
   - Odor Complaint and LOW ORP
   - Odor Complaint Data Sheet
9. **LAB AND SAMPLING**
   - Biomonitoring
   - Ammonia
   - Lab phone voicemail
   - Lab SOP
10. **OFFICE**
    - Arm Disarm Security
11. **MISCELLANEOUS**
    - Air Monitor
    - ATC-600 Operational Flowchart
    - End of day checks
    - EWW AWW Wasting
    - Lock Up
    - On Call tablet log into SCADA
    - Power Failure Call Out Procedure
    - Replacing back up batter in Rotork
    - SVX Keypad
12. **SAFETY**
    - Gas Meter Slide Show

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Appendix F: Wastewater Facility Regulatory Compliance

Wastewater Regulations
Discharge Permits
Last Updated:
Jan. 30, 2019

	Program	Regulations	Requirement or Deliverable	Due Date	Method	Responsible Person	Expires
VWW	Colorado Discharge Permit System	Regulation 61	Monthly Discharge Monitoring Report (rqmts in permit)	received no later than the 28th day of the following month	Net DMR (website)	Tim Drescher - ORC	Nov. 30, 2020
	Permit CO 00021369	CRS 25	Compliance Schedule - Reg 85 (rqmts in permit)	June 30, 2019			
		40 CFR		March 31, 2019			
		Clean Water Act		Dec. 31, 2020			
		Regulation 100	Compliance Schedule- Temp (rqmts in permit)	Dec. 31, 2018			
				Dec. 31, 2019			
				Dec. 31, 2020			
			Permit Renewal Application	April 30, 2018 (180 days prior to permit expiration)			
AWW	Colorado Discharge Permit System	Regulation 61	Monthly Discharge Monitoring Report (rqmts in permit)	received no later than the 28th day of the following month	Net DMR (website)	Tim Drescher - ORC	Admin Extended
	Permit CO 0024431	CRS 25					
		40 CFR					
		Clean Water Act					
		Regulation 100					
EWW	Colorado Discharge Permit System	Regulation 61	Monthly Discharge Monitoring Report (rqmts in permit)	received no later than the 28th day of the following month	Net DMR (website)	Parker Newbanks - ORC	Admin Extended
	Permit CO 003731	CRS 25					
		40 CFR					
		Clean Water Act					
		Regulation 100					

WW & Lab Regulations
Compliance Evaluation Inspections (Sanitary Survey)
Last updated:
Jan. 30, 2019

CEI is a non-sampling inspection designed to verify compliance with the permit self-monitoring
Occurs every 3 years (next one scheduled 2019)

Inspector Evaluates:

1 facility's design capacity
2 operations
3 condition of infrastructure
records as appropriate (bench sheets vs. DMR submittals, eqmt calibration, biosolids records,
4 stormwater control measures and records
5 discuss expansion, O&M
6 collection system inspection

Following items available for inspection:

copies of discharge permits, biosolids notice of authorization, stormwater certification and SMWP,
1 organization chart
2 site map, industrial activity areas, stormwater features and outfalls
3 WWTF process flow diagrams and/or piping and instrumentation diagrams
4 facility design information, unit loading rates, design criteria, capacity evaluations
5 operating data, bench sheets/operations logs
6 laboratory results and chain of custody forms
7 discharge monitoring reports, biosolids annual reports, and other compliance reports
8 calibration and maintenance records
9 on-site laboratory and SOPs and analytical procedures or independent laboratory reports
10 operation and maintenance manuals, treatment SOPS, emergency response procedures
11 collection system maps, budget and maintenance records

Record keeping requirements:

1 date, type, exact place, and time of sampling or measurements
2 individual who performed sampling or measurements
3 date the analyses were performed
4 individual who performed the analysis
5 analytical techniques or methods used
6 results of such analyses
preservation techniques (do records demonstrate required holding times, temps, etc. are being
7 met)
8 flow meter and analytical equipment calibration/verification records

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Wastewater Regulations
Regulation 100
Last Updated:
Jan. 30, 2019

Program	Regulations	Requirement or Deliverable	Due Date	Method	Responsible Person	Expires	
ORC Written Plan	Regulation 100		Annually Reviewed		Siri Roman		IN PROGRESS
Annual Regulatory Training					Siri Roman		IN PROGRESS - CEI/Permits 101 satisifes this requirement (Leah to get TUs)
Relevant Training Units for certification					Operators track their own certs/TUs etc.		Discussed at 1/24/2019 dept mtg - certs requirement of position

Wastewater Regulations
Biosolids Permit
Last Updated:
Jan. 30, 2019

Program	Regulations	Requirement or Deliverable	Due Date	Method	Responsible Person	Expires
EPA Biosolids Center	Clean Water Act (33 USC 1251)	Annual Biosolids Report	Feb. 19	CDX central data exchange	Parker Newbanks	
Water Quality Control Division	40 CFR Part 122	metals & pathogens sampling		sent to outside lab	Parker Newbanks	
CO-0021369 COG - 650043	MOA CDPHE BMP 0818	annual production				
CO-0024431 COG - 650044		land application				
CO-0037311 COG - 650041						
CO-0021385						
EPA General Permit COG650000						Oct. 19, 2012 (admin extended)

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Wastewater & Lab Regulations
Stormwater
Last Updated:
Jan. 30, 2019

Program	Regulations	Requirement or Deliverable	Due Date	Method	Responsible Person	Expires	Documents
Quarterly inspection and sampling	CDPS General Permit COR900000	Quarterly outfall sample collection and visual inspections of all pollution sources. One visual inspection of pollution sources must be during a rain or snowmelt event	Quarterly	Original documents saved. Scanned documents saved on network.	ORC		
Permit renewal							Permit #'s- Vail COR900097, Avon COR901387, Edwards COR901386
Annual report		Annual Report	March 31 of following year	Via mail	Lab Supervior		P:\15WSD\1admin\Safety\Environmental\SWMP\Annual Reports
Permit renewal fee							

Wastewater Regulations
Fuel Tanks
Last Updated:
Jan. 30, 2019

AWW Facility ID: 14356
EWW Facility ID: 1581

Program	Regulations	Requirement or Deliverable	Due Date	Method	Responsible Person	Expires	Notes:
	Co. Dept Labor & Employment (CDLE)	storage tank statutes 8-20.5-303					
monthly ullage log	CDLE Guidance	measure and document monthly; maintain invoices	Monthly	spreadsheet -	ORC		P:\15WSD\7fieldops\Vehicles\GASOLINE
monthly tank visual inspection checklist	AST monthly visual inspection checklist	visually inspect and document	Monthly	spreadsheet	ORC		
annual report			Jan, Annually		Gusty Kanakis		Fuel supplied by Collett
annual inspection			Jan, Annually		Gusty Kanakis		Generators inspected annually by Rocky Mountain Cummins

Contact:
Mike Kwiecinski, P.G.
Environmental Protection Specialist
CDLE- Oil & Public Safety
303-318.8512
mike.kwiecinski@state.co.us

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Appendix G: Laboratory Regulatory Compliance

Wastewater & Lab Regulations
DMR-QA
Last Updated:
Jan. 30, 2019

Program	Regulations	Requirement or Deliverable	Due Date	Method	Responsible Person	Expires
DMRQA	Clean Water Act (CWA) Section 308	Submit address verification and order PT Samples	March 23, 2018	Email	Lab Supervisor	
DMRQA	Clean Water Act (CWA) Section 308	DMR-QA results submitted to PT provider	July 6, 2018	ERA website	Lab Supervisor	
DMRQA	Clean Water Act (CWA) Section 308	Submit DMR-QA results to DMR-QA Cooridinator	August 31, 2018	Email	Lab Supervisor	
DMRQA	Clean Water Act (CWA) Section 308	Submit corrective action reports and retest results to DMR-QA Coordinator, if applicable	October 26, 2018	Email	Lab Supervisor	

Laboratory Regulations
Drinking Water Audit
Last Updated:
Jan. 30, 2019

Program	Regulations	Requirement or Deliverable	Due Date	Method	Responsible Person	Expires	Documents
Certified Drinking Water Lab for Microbiology	SDWA	Certification program staff conduct onsite inspections of environmental testing laboratories every two years to evaluate compliance with the U.S. Environmental Protection Agency's (EPA) Manual for the Certification of Laboratories Analyzing Drinking Water.	Every 2 years	Onsite	Lab Supervisor		Knowledge of all documentation locations. Network or SharePoint.
	SDWA	Proficiency test for all microbiology methods: TC/EC presence-absense, Quantitray for source water	Annually	Submit results to ERA website.	Lab Supervisor		www.eraqc.com
	SDWA	Certification application	Annually-Complete by end of	Email	Lab Supervisor		Application for Certified Drinking Water Lab
	SDWA	Update QA manual	Annually	Network	QA-QC Analyst		P:\10UEV\6WW\60-LAB\SP Admin Folder\Quality Control-Assurance\QA Manual

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Wastewater & Lab Regulations
Regulation 85 Monitoring
Last Updated:
Jan. 30, 2019

Program/Regulation	Requirement or Deliverable	Due Date	Method	Responsible Person	Expires	Documents
Regulation 85	Monthly results for upstream, effluent composite, and downstream samples for each WWTF.	15-Apr	Email	Lab Supervisor		P:\10UEV\6WW\60-LAB\SP Admin Folder\Projects\Wastewater\Regulation #85\Nutrients

CDPHE_nutrients@state.co.us.

Laboratory Regulations
Misc. Laboratory Requirements
Last Updated:
Jan. 30, 2019

Program	Regulations	Requirement or Deliverable	Due Date	Method	Responsible Person	Expires
New Hire training		Complete training matrix including IDCs, MDLs, and PTs	6 months from start date	Notebook	Lab Supervisor	
MDLs		Each analyte must perform MDLs on all instruments- Annually- Evaluate if MDLs or RLs need to change	Each year	Spreadsheet	QA-QC analyst	
Ovens, balances, and pipettes	Drinking Water Audit	Annual calibrations and cleaning from external vendor	January	Kane Aldinger currently performs this work Kane Aldinger (kanealdinger@gmail.com)	Lab Supervisor	
Thermometers		Annual calibration checks	Annually	2 temperature ranges	QA-QC analyst	
Thermocouples		Quarterly calibration checks	Quarterly	2 temperature ranges	QA-QC analyst	

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WATER & SANITATION
DISTRICT

Attachment 10

Section G: Operation and Management

Emergency Response Plan

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EMERGENCY RESPONSE PLAN

EAGLE RIVER
WATER & SANITATION
DISTRICT

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Section 1- Emergency Response Plan

1.1 Introduction

Emergency conditions can be imposed on municipal water and wastewater treatment facilities and systems by natural disasters, human error, equipment and structural failures, or intentional terrorist acts. This document details an emergency response plan for assuring effective operation of municipal water and wastewater treatment facilities and systems under emergency conditions, which could result from failure of process systems, unexpected shutdown of equipment components, and intentional sabotage by individuals or groups. The goal is to protect the lives and health of the personnel in the facility and the public, provide protection to the environment, and restore the facility to productive operation as rapidly as possible.

1.2 Background

Guidelines established by the Environmental Protection Agency (EPA) stipulate that operators of municipal water and wastewater treatment facilities and systems develop and maintain a comprehensive emergency response plan. If a water or wastewater treatment facility is completely incapacitated, the program must provide guidelines for returning the facility to an acceptable operational mode. Emergency conditions are those situations that pose immediate hazards to facility personnel, local environment, facility equipment, and/or the public.

An emergency response plan is most effective when it allows personnel an opportunity to anticipate and prepare for emergencies before they occur. This permits personnel to identify, minimize, and eliminate operational & security situations, which could develop into a full-scale emergency. This plan also presents alternate methods of operation, emergency repair, and community assistance in the event of an actual emergency.

The development of guidelines for an emergency response plan was based upon guidelines established by the EPA and presented in the publications, *Emergency Planning for Water Management*, American Water Works Association (AWWA), *Hazardous Materials Response Handbook*, National Fire Protection Association (NFPA), *Emergency Planning for Municipal Wastewater Treatment Facilities,* Environmental Protection Agency (EPA-430/9-74-013), *Considerations for Preparation of Operation and Maintenance Manuals,* Environmental Protection Agency (EPA-430/9-74-001), *Baseline Threat Information for Vulnerability Assessments of Community Water Systems*, Environmental Protection Agency (EPA 810-R-02-002), and *Asset Based Vulnerability Checklist for Wastewater Utilities*, Association of Metropolitan Sewerage Agencies (AMSA). It is recommended that such a plan be reviewed and updated at least once each year to reflect changes that may occur both at the water and wastewater facilities and in the surrounding area.

1.3 Objectives

The objectives of this emergency response plan include:

1. Eliminate or minimize adverse effects of emergency situations affecting the water or wastewater system, the operating personnel, the environment, and the public through mitigation steps.

2. Develop specific procedures for properly responding to emergencies.
3. Develop specific security policies and procedures to minimize threats to facilities & processes, employees, water systems, and the public.
4. Provide instruction for personnel to ensure they understand their responsibilities during emergency situations. Conduct emergency drills or simulations on a regular basis.
5. Provide inventories of available emergency equipment. Outline existing mutual aid agreements (see Appendices) and contracts with outside organizations for specialized assistance during a coordinated response to specific emergencies.

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Section 2- Types & Classes of Emergencies

An emergency is considered an event, which directly affects one, several, or all departments or facilities causing complete, partial, or temporary disruption of operations, service, or injury to personnel and/or the public.

2.1 Types of Emergencies

1. Eagle Park Reservoir Dam Failure & Black Lakes Dam Failure
2. Flood
3. Fire
4. Fire Supply Emergency
5. Earthquake
6. Severe Winter Weather
7. Chlorine Gas Release *(as of January 2008 Chlorine Gas is no longer used at the District)*
8. Chemical Spill
9. Contamination of Water Supply
10. Sewer Collection Line Break
11. Transmission Line Break
12. Natural Gas Line Break
13. Confined Space Emergency
14. SCADA Failure
15. Power Outage
16. Explosion
17. Pandemic Flu
18. Man-Made Emergencies
    - Contamination
    - Structural Damage
    - Cyber Attack
    - False Threats
    - Bomb Threats
    - Vandalism

2.2 Classes and Situations Requiring Crisis Communication Involvement

Class	Type of Emergency	Department Involved	Situations
1	Minor	Customer Service/ Public Information Officer	Loss of service to 5 homes or less. Water main break causing minor property damage. Water main break causing traffic disruption. Mechanical failure of pressure pump, etc., affecting routine operations. Employee accident not requiring hospitalization.
2	Major	Management /Public	Significant loss of service to customers. Significant loss of service for a prolonged period of time.

		Information Officer	Damage to facilities caused by vandalism, which causes interruption of service for longer than 24 hours. Water contamination by biological or bacteriological elements. Break in large transmission line with property damage in excess of $50,000. Major reservoir leak. Employee accident involving fatalities or substantial rescue effort.
3	Disaster	Management /Public Information Officer	Extensive loss of service for prolonged period of time due to: • Flood. • Storm and electrical power disruption. • Sabotage. • Reservoir collapse. • Water contamination, which would cause use of external or commercial drinking water supplies. • Break in large transmission line with major property damage, requiring more than five days of service interruption for repairs. • Break in dam wall at Eagle Park Reservoir or Black Lakes #1 or #2.

2.3 Public Response Based Upon Class of Emergency

Each emergency, because of its nature, may dictate a particular mode of action. The point-of-contact for all external information dissemination shall be the PIO. The strategies and steps outlined below by class should serve as guidelines for the level of response and District involvement.

Class	Type of Emergency	Response
1	Minor	Customer Service representatives will respond to customers' calls with the help of the staff members who are familiar with the situation and response being made. As necessary, the Public Information Officer (PIO) prepares news release or statement, which is reviewed and edited by the General Manager or Operations Manager. As necessary, the Public Information Officer (PIO) reviews coverage and calls corrections to any statements, which may have been published in error.

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Class	Type of Emergency	Response
2	Major	The Public Information Officer (PIO) is notified of the situation as part of the chain of command. The Public Information Officer (PIO) proceeds to the scene of the emergency to be apprised of facts surrounding the incident and potential for restoring service. In the event that media appear at the scene of the emergency, the Public Information Officer (PIO) escorts the media at the scene and provides them with an accurate overview of the situation. The Public Information Officer (PIO), with the General Manager and Operations Manager, corroborates on the statement and/or news release. The Public Information Officer (PIO) calls the media with the release, faxes to the appropriate media, and provides copies to the Customer Service representatives for responding to calls from customers. In the event that the Eagle County **Local Emergency Coordinator** is involved or the **Crisis Communication Officer** from a responding agency, the Public Information Officer (PIO) will establish coordination for media relations and statement. The Public Information Officer (PIO) provides updated information and data to television stations, radio, and newspapers, in advance of the evening news and print deadlines to ensure that information is timely and most current. The Public Information Officer (PIO) remains on-site, at command post, or at the District offices to handle media inquiries and provide hourly consultation.
3	Disaster	The Public Information Officer (PIO) is notified of the situation as part of the chain of command. The Public Information Officer (PIO) proceeds to the command post or District offices to be apprised of facts surrounding the situation and potential for restoring service. The Public Information Officer (PIO) with the General Manager and Operations Manager corroborates on the statement and/or news release. In the event that media appear to cover the emergency, the Public Information Officer (PIO) escorts the media at the scene and provides them with an accurate overview of the situation.

Class	Type of Emergency	Response
		The Public Information Officer (PIO) calls the media with release, faxes to appropriate media, and provides copies to the Customer Service representatives for responding to calls from customers. In the event that the Eagle County **Local Emergency Coordinator** is involved or the **Crisis Communication Officer** from a responding agency, the Public Information Officer (PIO) will establish coordination for media relations and statement. The Public Information Officer (PIO) provides updates on at least an every four-hour basis to television, radio, and newspapers, cognizant of deadlines to ensure that information is timely and most current. The Public Information Officer (PIO) tours the District with the appropriate staff to answer public inquiries and disseminate information.

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Section 3- Evacuation Procedures

3.1 Types of Emergencies Requiring Evacuation

In the event of an emergency requiring an evacuation of a facility, an alarm will sound and employees will evacuate the building according to the procedures outlined in this plan. Employees will evacuate a facility due to the following emergencies:

- Fire
- Flood
- Chemical Release
- Explosion
- Bomb Threat

3.2 Emergency Warning Signals

Eagle River Water & Sanitation District (District) has established warning signals to alert employees of an emergency requiring an evacuation. Employees are expected to signal the alarm if they witness a fire. The Safety Coordinator & General Manager will declare all other emergencies according to type and severity. Signals are different at each facility and are as follows:

Wastewater Treatment Plant (VWWTP): A blow horn will sound, **the person deploying air horn will call 911 and page/call the VWWTP** (or VWWTP will call front desk depending on emergency). **Facility supervisor (or next in charge) will call 911 at other locations** Locations of blow horns at the VWWTP are as follows:

- Reception area at front desk.
- Customer Service above printer.
- Upstairs on counter outside Dennis Gelvin Conference Room
- Coffee station near Accounting.
- Next to printer in Engineering.

Avon Wastewater Treatment Plant (AWWTP): An alarm will sound in conjunction with flashing strobes.

Avon Drinking Water Facility (ADWF): An alarm will sound in conjunction with flashing strobes.

Edwards Drinking Water Facility (EDWF): An alarm will sound in conjunction with flashing strobes.

Edwards Wastewater Treatment Plant (EWWTP): An alarm will sound in conjunction with flashing strobes.

3.3 Evacuation Procedures

1. Upon hearing signal horns, (if time allows) shut down all running equipment, take any necessary outerwear (coat, hat, gloves, etc.), and exit your office/work area.

2. Proceed to nearest exit and exit the building.

3. Proceed to the assembly area & report to your manager or supervisor. Be careful to watch out for emergency vehicles entering the property.

4. Department managers/acting Manger of Department's will take a count to assure all employees are accounted for.

5. Remain at the assembly area until you receive further instructions.

3.4 Assembly Areas

VWWTP: Evacuate the building through the nearest door (back, accounting, front door, upstairs door, customer service). Proceed to the assembly area near the gate in the lower parking lot. Be sure not to stand in the driveway and watch out for emergency vehicles entering the property.

AWWTP: Proceed and assemble by the front gate. Be sure not to stand in the driveway and watch out for emergency vehicles entering the property.

ADWF: Proceed and assemble by the front gate. Be sure not to stand in the driveway and watch out for emergency vehicles entering the property.

EDWF: Proceed and assemble on top of the hill away from the facility and off of the driveway. Be sure to watch out for emergency vehicles entering the property.

EWWTP: Proceed and assemble by the front gate. Be sure not to stand in the driveway and watch out for emergency vehicles entering the property.

Note: *Please be aware that assembly areas may change depending on the emergency. Use your best judgment when exiting the building and determining the assembly area.*

3.5 Control of Employees, Visitors, Contractors & Vendors

Employees: Employees are to assemble and report to their manager or supervisor in the event of an emergency. Employees out of their normal work area shall report to the management of the area they are in at the time of the emergency.

Visitors: Visitors will come under the control of area management. Escorts/guide will remain with them.

Contractors & Vendors: Contractors & vendors should report to the department manager in which they are working for. Escort/guide will remain with them.

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3.6 Responsibility of Management

In the event of an emergency, the District will have to depend primarily on the efforts of its employees to protect life & property. Every manager and supervisor is expected to understand and carry out his or her duties and responsibilities as outlined in this plan.

Keep an up-to-date list of your personnel in a designated area, and verify their welfare after evacuation procedures have been issued.

New hire orientation shall ensure employees are informed of the following:

- Location of closest fire alarm.
- How to respond to a fire in the building.
- Location and instruction for hand extinguishers provided at the District.
- Disaster warning signals.

3.7 Emergency Operations Center

In the event of an emergency, the Vail Wastewater Treatment Plant will be designated as the Emergency Operations Center. All management, administration, and customer service staff that are needed in an emergency can be re-located to this location and emergency operations can be easily coordinated from this site.

3.8 Map Locations

The Engineering Department generates and files all District maps at the Vail Wastewater Treatment Plant. Maps needed in emergency situations can be obtained at this location. Maps include system-wide collection & distribution plans, facility structural & floor plans, maps containing valve, well, tank, pump station, lift station locations, electrical layouts, and additional maps needed in an emergency.

3.9 Communication Systems

In the event of an emergency, communication systems may be interrupted or disabled. The District will contact employees using various communication systems depending the particular disaster. The primary channels of communication are radios, pagers, cellular phones, and telephones.

If a radio system fails, please contact the IT Department to notify that a radio needs repair.

Radios: Multiple departments use radios around the District. The primary channel that the District uses is Channel 1-A. In the event of a facility emergency, repeaters would not be affected. Radios should be used for primary communication between departments. Radio call numbers are listed on the Employee Phone List.

Pagers: The pager system at the District is operated by an outside vendor and would not be affected by any facility emergency. Pager numbers are listed on the Employee Phone List.

Cellular Phones: The cellular phone system at the District is operated by an outside vendor and would not be affected by any facility emergency. Cellular phone numbers are listed on the Employee Phone List.

Telephones: Telephone service may be interrupted or disabled in the event of certain facility emergencies. If telephone service becomes disabled, radios will be the primary means of communication between departments.

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Section 4- Hazard Summary

The following section discusses the types of hazards that the District can be faced with during normal operations. The summaries will provide the basis for subsequent emergencies discussed later in the Emergency Response Plan.

Section 4.1 Reservoir and Dam Failure

Eagle River Water & Sanitation District owns and operates various reservoirs and dams throughout the area. Although the District monitors and maintains these structures, they are subject to failure at any time. Reasons include: back-cutting of spillway, cracking, outlet failure, overtopping, piping, saturation, settlement, sinkholes, slide, and erosion. It is imperative that the District had a plan and respond to these types of emergencies with extreme urgency. The District has written an Emergency Preparedness Plan specifically for these types of situations and should be referenced in time of need.

Section 4.2 Floods

As a result of dam and reservoir failure or heavy spring runoff, flooding of the Gore Creek and Eagle River may occur. Response to flooding is referenced in Section 5.2 of this Emergency Response Plan.

Section 4.3 Loss of Fire Supply

In the event that a water supply is lost or out of service, it is important that the appropriate fire department be notified of loss of service. Response to loss of fire supply is referenced in Section 5.4 of this Emergency Response Plan.

Section 4.4 Natural Disasters

The location of Eagle River Water & Sanitation District makes the natural disasters of this area unique. Severe winter weather, earthquakes, floods, and forest fires are all emergencies that could affect the water supply in some form. Response to these emergencies is referenced in Sections 5.2, 5.5, & 5.6.

Section 4.5 Chemical Releases

Due to the nature of operations, various chemicals are used at the different facilities. Bulk quantities of chlorine gas, sodium hydroxide, sodium hypochlorite, hydrochloric acid, and other chemicals are stored on-site. Employees are trained to respond to minor spills and releases. A Risk Management Plan has been specifically written and implemented for the storage of chlorine gas. A Spill Prevention, Control, and Countermeasure Plan has been written specifically for the storage of gasoline and diesel. Response to all other spills should be referenced in Sections 5.7 and 5.8 of this Emergency Response Plan.

Section 4.6 Collection & Distribution Line Breaks

Collection and distribution lines may break at anytime due to changes in weather and other unforeseen circumstances. Although these emergencies are not immediately dangerous to life, they must be responded to in an urgent manner to minimize damage to property. Response to all collection and distribution line breaks should be referenced in Sections 5.9 and 5.10.

Section 4.7 Confined Space Emergencies

District employees may enter non-permit and permit-required confined spaces as part of daily operations and maintenance. Some examples of confined spaces include tanks, basins, clarifiers, manholes, pressure relief vaults, lift stations, and booster pump stations. The confined space program is outlined in the District Safety Manual. Response to all confined space emergencies should be referenced in Section 5.12.

Section 4.8 Power Failure

Power failure of facilities or field locations can happen at anytime. On-site and portable generators serve as temporary back-up power and are tested weekly under full load. Response to all power loss emergencies should be referenced in Section 5.13.

Section 4.9 Fires and Explosions

Employees trained in Fire Extinguishers should only try to fight a small fire if they are comfortable. Large fires and explosions at District facilities should be handled by the appropriate fire departments. Response to all fire and explosion emergencies should be referenced in Sections 5.3 and 5.14.

Section 4.10 Pandemic Flu

In the past century, the United States experienced three pandemics of varying severity. A pandemic could spread worldwide in as little as four days, potentially causing millions to become sick and die, seriously straining healthcare systems and affecting the ability of government and the private sector to provide essential services.

A pandemic is a global disease outbreak. In a severe pandemic, absenteeism will increase from illness, the need to care for ill family members, and the fear of infection. Utilities that fail to prepare for the likelihood of pandemic flu may find themselves without the staff, equipment, or supplies necessary to continue providing safe drinking water or treating wastewater for their community. Utilities should integrate pandemic flu planning into existing business continuity and emergency response plans using available guidance documents and other tools for assistance.

Section 4.11 Man-Made Emergencies

Public utilities have been a high focus when dealing with homeland security. Due to the nature of business and the number of people that can be potentially affected by a terrorist act, water & wastewater utilities are a potentially high target. Eagle River Water & Sanitation District takes

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these threats seriously and has developed plans and guidelines to deal with such threats. They can be referenced in Section 6.0.

Section 5.0- Emergency Response Procedures

This section is designed to outline procedures that need to be followed in the event of emergency situations. Although, Eagle River Water & Sanitation District cannot predict when or where an emergency might occur, we can anticipate what type of emergencies are more likely to happen. The following emergency procedures are in place to assist the District in minimizing service interruption, damage to facilities & property, and threat to life & environment.

Section 5.1- Eagle Park Reservoir & Black Lakes Dam Failure

Refer to the Black Lake No. 1 and Dam Emergency Response Plan

A. Investigate the Reservoir and Determine the Level of Response Required
   1. Proceed to the site. Approach site from higher elevation above reservoir.
   2. Investigate and assess reservoir failure.
   3. Determine the extent of failure. Isolate reservoir from the supply source by closing valves.
   4. Determine the class of emergency:
      - **a. Major Emergency**
        - (1) Major cracks and erosion in the reservoir walls.
        - (2) Overflow of the reservoir.
        - (3) Appurtenance piping collapse.
      - **b. Disaster**
        - (1) Reservoir collapse or imminent collapse.
   5. Determine the level of response that is required.
      - a. Possible evacuation of surrounding area.
   6. Determine what repairs are required and which personnel, contractor, and equipment to mobilize.

B. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of the emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      - a. **Major Emergency**, notify:
        - (1) Administration, Water and Field Operations.
        - (2) Appropriate department managers.
        - (3) Safety Coordinator.
        - (4) General Manager.
        - (5) Appropriate District staff.
      - b. **Disaster**, notify:
        - (1) Administration, Water and Field Operations.
        - (2) All managers.
        - (3) Safety Coordinator.
        - (4) General Manager.
        - (5) Appropriate District staff.

C. Enact Crisis Communication Plan

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1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
    a. Board of directors.
    b. Legal counsel.
2. Notify and evacuate the downstream population if reservoir collapse is possible.

D. Repair Reservoir
1. Isolate the reservoir by closing valves.
    a. Notify the Emergency Response Team members to initiate action.
    b. Arrange an interim supply and repair the reservoir.
2. Use the appropriate contractor for the size/class of the reservoir failure.
3. Make repairs and cleanup the site.
4. Reactivate the system upon notification and approval of appropriate department manager.
5. Enact irrigation restrictions, if necessary.
6. If both reservoirs are off-line, activate pressure release valve.
7. Activate system through appropriate valves.
8. Document the damage with pictures.
9. Refer damage to the PIO for insurance purposes.
10. File any injury claims with Human Resources for worker's compensation purposes.

E. Assess Response
1. Hold an Emergency Response Team meeting within 48 hours after the reservoir is repaired to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Section 5.2- Flood Emergency

A. If major flooding occurs at a District Facility during business hours, order an evacuation.
B. Proceed to the Scene of the Flooding
    1. Investigate and assess the damage to District facilities.
    2. Determine the location of the damage to District facilities.
    3. Determine the effects of the damage (i.e., water line breaks, loss of well supply, etc.).
        a. Close valves to isolate damage.
        b. Turn off the power at stations and notify the electric utility service provider.
        c. Dam or sandbag the area if possible to minimize the affected area.
        d. Divert the flow away from the structure when possible.
        e. Assist in evacuation, if necessary.
    4. Determine the class of the emergency.
        a. Minor Emergency
            (1) Damage to small mains and service lines.
            (2) Loss of service to less than 10 users.
            (3) Minor property damage due to water line break.
            (4) One well of many in a zone is out of service.
        b. Major Emergency
            (1) Loss of service to more than 10 users.
            (2) Loss of service for an extended period of time.
            (3) Significant property damage due to a water line break.
            (4) Contamination of system due to floodwater.
        c. Disaster
            (1) Large service outage.
            (2) Service outage for an extended period of time.
            (3) Major property damage due to flooding.
            (4) Loss or threat to life and limb due to flooding.
    5. Determine the level of response that is required.
    6. Determine what repairs are required and what manpower, contractor, and equipment to mobilize.

C. Notify the **Emergency Response Team** (see Appendices)
    1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
        a. **Minor Emergency**, notify:
            (1) Appropriate department managers.
            (2) Appropriate District staff.
            (3) Safety Coordinator.
            (4) General Manager.
            (5) Engineer(s) and/or contractor(s), if necessary.
            (6) Utility service provider(s), if necessary.
        b. **Major Emergency**, notify:
            (1) Appropriate department managers.
            (2) Appropriate District staff.
            (3) Safety Coordinator.
            (4) General Manager.

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(5) Engineer(s) and/or contractor(s), if necessary.
(6) Utility service provider(s), if necessary.

c. **Disaster**, notify:
(1) Appropriate department managers.
(2) Appropriate District staff.
(3) Safety Coordinator.
(4) General Manager.
(5) Engineer(s) and/or contractor(s), if necessary.
(6) Utility service provider(s), if necessary.

D. Enact Crisis Communication Plan
1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
2. Notify affected water users.
3. Outline situation to users. Explain how they will be affected and if they will require any action.

E. Repair Damaged Facilities/Restore Supply
1. Provide water supply to the affected areas from other facilities, if possible.
2. Use appropriate contractor and manpower to expedite repairs.
3. Make repairs and restore supply as quickly as possible.
4. Test water quality, if necessary.
5. Reactivate system upon notification and approval of appropriate department manager.
6. Document damages with photographs and reports.
7. Refer damage to the PIO for insurance purposes.
8. File any injury claims with Human Resources for worker's compensation purposes.

F. Assess Response
1. Hold Emergency Response Team meeting within 48 hours after water supply is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Section 5.3- Fire Emergency Procedures

A. If you witness a fire, immediately activate the closest fire alarm.
   1. If you feel you can extinguish the fire:
      a. Immediately grab the closest fire extinguisher and proceed to extinguish the fire according to training procedures.
      b. After the fire is fully extinguished evacuate the building.
      c. If you cannot extinguish the fire, evacuate the building.
   2. Classifications of Fires:
      a. Class A: Combustible materials such as wood, paper can be extinguished by water.
      b. Class B: Flammable liquids and greases require smothering and oxygen deprivation to extinguish.
      c. Class C: Electrical Fires where the use of non-conducting extinguishing agents is required.
      d. Class D: Combustible metals which require special agents to remove oxygen.
   3. If you feel you cannot extinguish the fire, immediately evacuate the building.
   4. *Forest Fires:* This is a low hazard location. However, a forest fire in the area could result in a loss of power. Loss of power due to forest fire would also result in a reduced loading to the plant due to local evacuations. The back-up generators should provide adequate power under these conditions.
   5. Determine the Level of emergency. All fire emergencies will be classified as Major or Disaster.
      a. Major Emergency
         (1) Small fire that can be extinguished using a portable fire extinguisher.
      b. Disaster
         (2) Large fire that cannot be extinguished using portable fire extinguishers.

B. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of the emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      a. **Major Emergency**, notify:
         (1) Appropriate fire department.
         (2) Appropriate department managers.
         (3) Safety Coordinator.
         (4) Appropriate District staff.
         (5) General Manager.
      b. **Disaster**, notify:
         (1) Appropriate fire department.
         (2) Appropriate department managers.
         (3) Safety Coordinator.
         (4) Appropriate District staff.
         (5) General Manager.

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C. Enact Crisis Communication Plan

1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
    a. Board of directors.
    b. Legal counsel.
2. Notify and evacuate down-wind populations, if necessary.
3. Contact the appropriate people or agencies.

D. Assist in Repair and Cleanup

1. Reactivate the system upon notification and approval of the appropriate department manager.
2. Document the damage with pictures.
3. Refer damage to the Risk Management Team for insurance purposes.
4. File any injury claims with Human Resources for worker's compensation purposes.

F. Assess Response

1. Hold an Emergency Response Team meeting within 48 hours after the fire is contained, to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).

Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Section 5.4- Fire Protection Supply Emergency

Fire at Non-District Facility

A. Proceed to the Scene of the Fire
   1. Initiate contact with the fire department personnel.
   2. Determine the system demands/capabilities as best as possible.
   3. If possible, start wells and booster pumps to affected areas.

B. Monitor Supply System
   1. Monitor the flows to the fire site to provide adequate supply.
   2. Maintain contact with the fire department's incident commander to anticipate their needs.
   3. Notify the fire department's incident commander of the fire flow capacity and limitations.
   4. Activate additional wells or alternate water resources as necessary.

C. Refill Storage Tanks
   1. Keep the storage tanks as full as feasible.
   2. Refill the storage tanks once the emergency is over.

D. Assess Response
   1. Hold Emergency Response Team meeting within 48 hours after water supply is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
   2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Fire at District Facility

A. Proceed to the Scene of the Fire
   1. Call 911 if they have not been notified.
   2. Investigate and assess the amount of damage to the facility.
   3. Disconnect the electrical power as necessary. Contact the appropriate utility service provider(s), if necessary.
   4. Determine the effect of the fire to the supply system and the class of emergency.
      a. Minor Emergency
         (1) Smoke and/or fire damage to the facility. The facility will still function properly.
         (2) Damage is to a small or infrequently used facility. The capability of the overall supply system remains intact.
      b. Major Emergency
         (1) Booster pump is out of service. Low pressure is available.
         (2) A major supply well or storage tank is out of service. Water is available from other sources.
      c. Disaster
         (1) The effects of the fire threaten additional emergency power supplies to pumping stations.
         (2) The affected facility impacts fire supply capabilities.

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(3) The fire affects overall system operations such as a fire at the District office or a fire involving the SCADA system.

5. Determine the level of response that is required.
6. Determine what repairs are required and which personnel, contractors, and equipment to mobilize.

B. Notify the **Emergency Response Team** (see Appendices)

1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
   a. **Minor Emergency**, notify:
      (1) Appropriate fire department.
      (2) Appropriate department managers.
      (3) Safety Coordinator.
      (4) Appropriate District staff.
      (5) General Manager.
   b. **Major Emergency**, notify:
      (1) Appropriate fire department.
      (2) Appropriate department managers.
      (3) Safety Coordinator.
      (4) Appropriate District staff.
      (5) General Manager.
   c. **Disaster**, notify:
      (1) Appropriate fire department.
      (2) Appropriate department managers.
      (3) Safety Coordinator.
      (4) Appropriate District staff.
      (5) General Manager.

C. Enact Crisis Communication Plan

1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
2. Notify affected water users.
3. Notify downstream population if a storage tank and/or dam collapse is possible.
4. Outline situation to users and any actions that may be required by them.

D. Repair Facilities/Restore Supply

1. Check other supply sources to be sure they are in service and supplying water to affected areas.
2. Check for line leaks/breaks.
3. Perform structural evaluation of facilities-use appropriate contractors, engineers, etc.
4. Provide traffic control, as necessary.
5. Make repairs and cleanup the site(s).
6. Reactivate the system upon notification and approval of the appropriate department manager.

7. Document the damage with pictures.
8. Refer damage to the PIO for insurance purposes.
9. File any injury claims with Human Resources for worker's compensation purposes.

E. Assess Response

1. Hold Emergency Response Team meeting within 48 hours after water supply is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

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Section 5.5- Earthquake Emergency Procedures

F. Proceed to the Scene(s) of the Damaged Facilities
   1. Determine location(s) of damage to District facilities.
   2. Investigate and assess the amount of damage to the facilities.
   3. Determine the effects of the damage (water line breaks, reservoir failure, well damage, etc.).
   4. Turn off the utilities. Contact the electric and gas utility service providers.
   5. Determine the class of emergency.
      a. **Minor Emergency**
         (1) Small mains and service lines.
         (2) Loss of service to 25 users or less.
         (3) Minor property damage due to water line break.
         (4) One well of many in a zone is out of service.
         (5) Storage tanks are out of service.
         (6) Small crack(s) in reservoir walls (Black Lakes Dams).
         (7) Service loss from Gore Valley Water Treatment Plant.
      b. **Major Emergency**
         (1) Loss of service to more than 25 users.
         (2) Loss of service for an extended period of time.
         (3) Booster pump(s) is out of service.
         (4) Major supply well(s) is out of service and service loss from Gore Valley Water Treatment Plant.
         (5) Major damage or loss of storage tanks.
         (6) Large crack(s) in reservoir walls and potential for collapse (Black Lakes Dams).
      c. **Disaster**
         (1) Large service outage-water supply to an entire zone is lost.
         (2) Service outage for an extended period of time.
         (3) Reservoir collapse or eminent collapse (Eagle Park Reservoir and Black Lakes Dams).
   6. Determine the level of response that is required.
   7. Determine what repairs are required and which crew, contractor, and equipment to mobilize.

G. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      a. **Minor Emergency**, notify:
         (1) All managers.
         (2) Safety Coordinator.
         (3) Appropriate District staff.
         (4) General Manager.
         (5) Utility service provider(s), if necessary.
         (6) Engineer(s) and/or contractor(s), if necessary.

b. **Major Emergency**, notify:
   (1) All managers.
   (2) Safety Coordinator.
   (3) Appropriate District staff.
   (4) General Manager.
   (5) Utility service provider(s), if necessary.
   (6) Engineer(s) and/or contractor(s), if necessary.
   (7) EPA/Colorado Department of Health, if necessary.

c. **Disaster**, notify:
   (1) All managers.
   (2) Safety Coordinator.
   (3) Appropriate District staff.
   (4) General Manager.
   (5) Utility service provider(s), if necessary.
   (6) Engineer(s) and/or contractor(s), if necessary.
   (7) EPA/Colorado Department of Health, if necessary.

H. Enact Crisis Communication Plan

5. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
6. Notify affected water users.
7. Notify downstream population if a storage tank and/or dam collapse is possible.
8. Outline situation to users and any actions that may be required by them.

I. Repair Facilities/Restore Supply

1. Check other supply sources to be sure they are in service and supplying water to affected areas.
2. Check for line leaks/breaks.
3. Perform structural evaluation of facilities-use appropriate contractors, engineers, etc.
4. Enact the Black Lakes and Eagle Park Reservoir Dam Emergency Response Plan, if necessary.
5. Provide traffic control, as necessary.
6. Make repairs and cleanup the site(s).
7. Reactivate the system upon notification and approval of the appropriate department manager.
8. Document the damage with pictures.
9. Refer damage to the PIO for insurance purposes.
10. File any injury claims with Human Resources for worker's compensation purposes.

J. Assess Response

3. Hold Emergency Response Team meeting within 48 hours after water supply is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).

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4. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Section 5.6- Severe Winter Weather

A. Determine the Type of Severe Weather Condition

1. **Blizzard**
   a. Assess the overall impact on operations.
   b. Determine what facilities are affected. This may mean that certain facilities are not accessible to check.
   c. Determine how manpower will be affected. Road closures will most likely limit available manpower and equipment.
   d. Determine the class of emergency. Most of the emergencies arising under these conditions will be minor.
2. **Avalanche**
   a. Call 911 immediately upon receiving a report of an avalanche.
   b. Proceed to the area of the avalanche. Safety must be the primary consideration when approaching the scene.
   c. Assess the damage that has occurred to any District property.
   d. Determine the class of the emergency.
      (1) Minor Emergency
      - Minor damage to a facility. The remainder of the facility is still functioning properly.
      - Damage is to a small or infrequently used facility.

      (2) Major Emergency
      - Personnel have been injured.
      - Damage puts facility at reduced capability, but it is still somewhat intact.
      - The facility is the major source of supply to a zone.

      (3) Disaster
      - Serious injury or death has occurred.
      - Damage to the facility is extensive enough to put it entirely out of service.
      - The facility is the only source of supply to a zone.

B. Notify the **Emergency Response Team** (see Appendices)

1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
   a. **Minor Emergency**; notify:
      (1) Appropriate department managers.
      (2) Appropriate District staff.
      (3) Safety Coordinator.
      (4) General Manager.
   b. **Major Emergency**, notify:
      (1) Ambulance or rescue team, if necessary.
      (2) Appropriate department managers.
      (3) Safety Coordinator.
      (4) Appropriate District staff.

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(5) General Manager.
(6) Engineer(s) and/or contractor(s), if necessary.
(7) Utility service provider(s), if necessary.

c. **Disaster**, notify:
(1) Ambulance or rescue team, if necessary.
(2) Appropriate department managers.
(3) Safety Coordinator.
(4) Appropriate District staff.
(5) General Manager.
(6) Utility service provider(s), if necessary.
(7) Engineer(s) and/or contractor(s), if necessary.

C. Enact Crisis Communication Plan
1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
2. If the entire supply is lost to a zone, notify users of the situation.
3. Outline the situation to affected users and any actions that may be required by them.

D. Repair Damage
1. Establish access to the facility by use of contractors, heavy equipment, etc.
2. Make repairs as quickly as possible.
3. If possible, restore water supply to the zone by opening or closing valves to download water from another zone.
4. Reactivate system upon notification and approval of appropriate department manager.
5. Document damages with photographs and reports.
6. Refer damage to the PIO for insurance purposes.
7. File any injury claims with Human Resources for worker's compensation purposes.

E. Assess Response
1. Hold Emergency Response Team meeting within 48 hours after water supply is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Section 5.7- Chlorine Leak Emergency Procedure *(as of January 2008 all chlorine gas at ERWSD has been removed)*

A. Proceed to the Scene of the Chlorine Leak
   1. Review the SCADA alarm or telephone report form to determine the location of the leak.
   2. Minimum 2 person response.
   3. Take and wear the Self Contained Breathing Apparatus (SCBA) and PPE to the site.

   NOTE: Some of our SCBAs do not match those used by the local fire department. We may need extra equipment because we might be needed to assist the fire department.

   4. Approach the site upwind and uphill of the leak (note wind sock on building).
   5. Investigate and assess the chlorine leak.
   6. Notify the Eagle River Fire Protection District. ERFPD will make the decision to evacuate the school.
   7. If possible, determine the cause/size of the leak **without** endangering life.
      a. **Minor Emergency**
         (1) Small chlorine gas release that occurs when changing tanks.
         (2) Chlorine leak that can be stopped by District personnel.
      b. **Major Emergency**
         (1) Large leak that is contained within the chlorine room/building.
         (2) Chlorine leak that cannot be stopped by District personnel.
         (3) Evacuation of nearby homes or businesses required.
      c. **Disaster**
         (1) Large leak that is not contained within the building.
         (2) Potential for chlorine release to affect populated areas or damage property.
         (3) Evacuation of larger area required.
   8. Determine the level of response that is required.

B. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details. Describe the size/amount of leakage and give any pertinent details.
      a. **Minor Emergency**, notify:
         (1) Water department manager.
         (2) Appropriate District staff.
         (3) Safety Coordinator.
         (4) General Manager.
      b. **Major Emergency**, notify:
         (1) Eagle River Fire Protection District.
         (2) Water department manager.
         (3) Appropriate District staff.

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(4) Safety Coordinator.
(5) General Manager.
(6) CHEMTREC (Chemical Transportation Emergency Center).

c. **Disaster**, notify:
(1) Eagle River Fire Protection District.
(2) Water department manager.
(3) Appropriate District staff.
(4) Safety Coordinator.
(5) General Manager.
(6) Local Emergency Planning Committee (LEPC)
(7) CHEMTREC (Chemical Transportation Emergency Center).

C. Enact Crisis Communication Plan

1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
   c. Avon Elementary School.
2. Notify and evacuate down-wind populations, if deemed necessary.

D. Repair Chlorine Leak and Damages

1. The District is to assist the fire department in locating and repairing the leak.
2. The appropriate department manager will work with the fire department and police department to coordinate the evacuation of the area, if required.
3. Use the appropriate repair/supplier personnel to make any repairs to the chlorination system that are required.
4. Check all electrical items, solid-state equipment, variable speed drives, SCADA equipment, etc.
5. Reactivate the system upon notification and approval of appropriate department manager.
6. Document the damage with pictures.
7. Refer damage to the PIO for insurance purposes.
8. File any injury claims with Human Resources for worker's compensation purposes.

E. Assess Response

1. Hold an Emergency Response Team meeting within 48 hours after the chlorine leak emergency is resolved to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Section 5.8- Chemical Spills Emergency Procedure

A. Identify, if Possible, the Chemical(s) Involved Via Placards, Labeling, or Material Safety Data Sheets.
   1. **Take and wear the appropriate Personal Protective Equipment (PPE).**
   2. Determine the source & cause of the leak.
      a. Contact the appropriate fire department.
   3. Determine the size of the leak.
   4. Determine the class of emergency:
      a. **Minor Emergency**
         (1) Small leak that can be stopped and contained.
      b. **Major Emergency**
         (1) Larger leak that cannot be safely stopped or contained by District personnel.
         (2) Consider evacuation of facility, school, nearby homes and buildings, and cordon off area.
      c. **Disaster**
         (1) Potential to endanger populated area or damage property. Evacuation of larger area (detour traffic).
   5. Determine the level of response required.
   6. Determine what repairs are required, etc.
   7. Assessment of final repairs by engineers/specialists.

B. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of the emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details. Identify chemical, amount, location, damage already incurred, and wind direction.
      a. **Minor Emergency**, notify:
         (1) Appropriate department manager.
         (2) Safety Coordinator.
         (3) Appropriate District staff.
         (4) General Manager.
      b. **Major Emergency**, notify:
         (1) Appropriate fire department.
         (2) Appropriate department manager.
         (3) Safety Coordinator.
         (4) Appropriate District staff.
         (5) General Manager.
         (6) CHEMTREC (Chemical Transportation Emergency Center).
         (7) Third-party entity to assess emergency and remedies.
      c. **Disaster**, notify:
         (1) Appropriate fire department.
         (2) Appropriate department manager.
         (3) Safety Coordinator.

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(4) Appropriate District staff.
(5) General Manager.
(6) CHEMTREC (Chemical Transportation Emergency Center).
(7) Contractor(s) as needed for cleanup.
(8) Third-party entity to assess emergency and remedies.
(9) EPA and State Health Department.

C. Enact Crisis Communication Plan
1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
2. **Notify and evacuate down-wind populations, if necessary.**
3. Contact the appropriate people or agencies.

D. Response Strategy (Always wear the appropriate PPE when responding to spills)
1. *Discharges into natural waters.* Contain spill as much as possible. If feasible, neutralize with water and/or chemicals. Contact Eagle County emergency response officials. County officials should contact state agencies (this will not eliminate your reporting requirements to the proper State and/or Federal agencies) and other downstream users.
2. *Discharges that relate to pH values.* May be neutralized or if isolated before secondary treatment, slowly bled back in the waste stream after system recoveries.
3. *Discharges related to increased BODs and suspended solids values.* May be dealt with by longer detention times and higher oxygen values in the secondary treatment processes while continuously monitoring the process.
4. *Discharges related to toxic substances.* Require extra care due to safety of personnel and explosion potential of volatile or flammable materials. Restrict area from smoking and other ignition sources. Try to identify the source of the spill(s) and prevent further discharge. Alert on-site personnel. Sample waste stream for laboratory analysis. Contact outside agencies if necessary.
5. *Storage facility failure.* Storage facilities designs include containment walls for chemicals should tanks rupture. Small spills can be absorbed using the spill response kit and disposed of. An outside contractor trained to remove high pH solutions should handle large quantity spills.

G. Assess Response

1. Chemical spills are hazardous in terms of process performance, safety, and protection of the environment and surrounding area.
2. Spills into the water supply can cripple treatment systems. Spills from in-house storage tanks and/or chemical releases from chlorine gas could affect areas beyond facility boundaries.
3. Hold an Emergency Response Team meeting within 48 hours after the container is repaired, and the spill is contained and cleaned up to evaluate the effectiveness of the response.
4. Complete an Emergency Response Debriefing form (see Appendices).
5. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Only properly trained personnel can respond to chemical spills.

***** If you do not know the identity of a chemical, you must wear: a respirator, full Tyvek suit, rubber gloves, rubber boots, goggles, and face shield (or a full face respirator).***

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Section 5.9- Sewer Collection Line Break Emergency Procedure

A. Contamination into Sewage System
   1. Proceed to the scene of the contamination.
      a. Determine the type of contamination, if possible, from vehicle placards, visible containers, eyewitnesses, etc.
      b. Call 911, if necessary (could be volatile material).
   2. Determine the class of emergency.
      a. Minor Emergency
         (1) Small amount of contaminate that will not create a major upset to the wastewater plant operation.
      b. Major Emergency
         (1) Large amount of contaminate that will create a process upset that will cause a violation of the National Pollutant Discharge Elimination System (NPDES) Permit.
         (2) Small amount of inorganic contaminate which will cause a plant upset and violation of the NPDES Permit.
         (3) Any amount of organic product (it could be volatile and/or will create an oil slick through the plant and into the river), which will cause a plant upset and violation of the NPDES Permit.
      c. Disaster
         (1) Large amount of inorganic product; any amount of a radioactive material.
         (2) Large amount of organic product; atmosphere around sewer is explosive.
   3. Determine the level of response that is required.
   4. Determine what repairs are required, which crew(s), contractor, and equipment to mobilize.

B. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      a. **Minor Emergency**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) Safety Coordinator.
         (4) General Manager.
         (5) Engineer(s) and/or contractor(s), if necessary.
      b. **Major Emergency**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) Safety Coordinator.
         (4) General Manager.
         (5) Engineer(s) and/or contractor(s), if necessary.
         (6) EPA/Colorado Department of Health, if necessary.

c. **Disaster**, notify.
   (1) Appropriate department manager.
   (2) Appropriate District staff.
   (3) Safety Coordinator.
   (4) General Manager.
   (5) Engineer(s) and/or contractor(s), if necessary.
   (6) EPA/Colorado Department of Health, if necessary.

C. Enact Crisis Communication Plan
   1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
      a. Board of directors.
      b. Legal counsel.
   2. Notify affected sewer users in the event there is a volatile mixture.
   3. Outline the situation to users and any actions that may be required by them.

D. Repair Sewer Line
   1. Check for line leaks/breaks.
   2. Perform visual evaluation of facilities - use appropriate contractors, engineers, etc.
   3. Provide traffic control, as necessary.
   4. Make repairs and cleanup the site(s).
   5. Reactivate system upon notification and approval of appropriate department manager.
   4. Document damages with photographs and reports.
   5. Refer damage to the PIO for insurance purposes.
   6. File any injury claims with Human Resources for worker's compensation purposes.

E. Assess Response
   1. Hold Emergency Response Team meeting within 48 hours after sewer line is repaired and service is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
   2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

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Section 5.10- Water Transmission Line Break Emergency Procedure

A. Proceed to the Scene of the Water Line Break
   1. Determine the location of the break.
   2. Investigate and assess the water line break.
   3. Contact the Water Department.
   4. Close valves or adjust PRV to minimize water loss or supplement the area
   5. Establish temporary traffic control, if necessary.
   6. Determine the class of emergency.
      a. Minor Emergency
         (1) Service line.
         (2) Small mains.
         (3) Loss of service to 25 users or less for a short period of time.
         (4) Minor property damage.
      b. Major Emergency
         (1) Loss of service to more than 25 users.
         (2) Loss of service for an extended period of time.
         (3) Significant property damage.
         (4) Disruption to traffic on a busy street.
      c. Disaster
         (1) Large service outage.
         (2) Extended service outage.
         (3) Major property damage.
         (4) Loss or threat of life or limb.
   7. Determine level of response that is required.

B. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      a. **Minor emergency**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) Engineer(s) and/or contractor(s), if necessary.
         (4) General Manager.
      b. **Major emergency**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) Engineer(s) and/or contractor(s), if necessary.
         (4) General Manager.
         (5) Fire department, if supply volume is impacted.
      c. **Disaster**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) Engineer(s) and/or contractor(s), if necessary.
         (4) Safety Coordinator.

(5) General Manager.
(6) Fire department, if supply volume is impacted.

C. Enact Crisis Communication Plan
1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
2. Outline situation to users and any actions that might be required by them.
3. Monitor system and document results.

D. Repair and Temporary Operation
1. Use the appropriate Distribution & Collection staff or contractor for the repair on the water line.
2. Operate valves, PRVs, and pumps to direct water as needed.
3. Provide assistance to the contractors as needed.
4. Complete repairs and restore service as soon as possible.
5. Reactivate the system upon notification and approval of the appropriate department manager.
6. Document damages with photographs and reports.
7. Refer damage to the PIO for insurance purposes.
8. File any injury claims with Human Resources for worker's compensation purposes.

E. Assess Response
1. Hold Emergency Response Team meeting within 48 hours after water supply is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

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Section 5.11- Natural Gas Line Break Emergency Procedure

A. Proceed to the Scene of the Gas Line Break
   1. Determine the cause of the line break if possible.
      a. Call the appropriate utility service provider to shut off the gas, if necessary.
      b. Call 911, if necessary.
      c. Call the electric utility service provider to disconnect the electrical service, if necessary.
   2. Determine the class of emergency.
      a. Minor Emergency
         (1) Small leak that can be stopped at the gas meter. The water supply system is not affected.
      b. Major Emergency
         (1) The gas utility service provider cannot stop leak at the meter requiring repairs.
         (2) Loss of a service area/well system due to disconnecting power for safety reasons.
      c. Disaster
         (1) Fire and/or explosion has occurred rendering the water supply system inoperable for an extended period of time.
   3. Determine the level of response that is required.
   4. Determine what repairs are required, which crew(s), contractor, and equipment to mobilize.

B. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      a. **Minor Emergency**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) General Manager.
         (4) Utility service provider(s), if necessary.
         (5) Engineer(s) and/or contractor(s), if necessary.
      b. **Major Emergency**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) General Manager.
         (4) Utility service provider(s), if necessary.
         (5) Safety Coordinator.
         (6) Engineer(s) and/or contractor(s), if necessary.
         (7) EPA/Colorado Department of Health, if necessary.
      c. **Disaster**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) General Manager.

(4) Safety Coordinator.
(5) Utility service provider(s), if necessary.
(6) Engineer(s) and/or contractor(s), if necessary.
(7) EPA/Colorado Department of Health, if necessary.

C. Enact Crisis Communication Plan
1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
2. Notify affected water users, if required.
3. Outline the situation to affected users and any actions that may be required by them.

D. Repair Facilities/Restore Water Supply
1. Check other supply sources to be sure they are in service and supplying water to the affected areas.
2. Check for water line leaks/breaks.
3. Perform structural evaluation of facilities using appropriate contractors, engineers, etc., as needed.
4. Provide traffic control, as necessary.
5. Make repairs and cleanup the site(s).
6. Reactivate the system upon notification and approval of the appropriate department manager.
7. Document damages with photographs and reports.
8. Refer damage to the PIO for insurance purposes.
9. File any injury claims with Human Resources for worker's compensation purposes.

E. Assess Response
1. Hold Emergency Response Team meeting within 48 hours after natural gas line is repaired and service is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

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Section 5.12- Confined Space Emergency Procedure

A. Call 911 Immediately Upon the Report of a Confined Space Accident

B. Proceed to the Scene of the Confined Space Emergency
   1. Investigate and assess the situation. Review the Confined Space Entry Permit, if available, and other pertinent details.
   2. Determine the severity of the emergency. All confined space emergencies should be considered a Major Emergency or Disaster:
      a. Major Emergency
         (1) DO NOT ENTER.
         (2) Communication with the entrant(s) is established and a rescue can be conducted from outside the space using a rescue tripod, lifeline, and harness.
      b. Disaster
         (1) DO NOT ENTER.
         (2) Communication with the entrant(s) is lost. Rescue from outside of the space cannot be attempted.
   3. Immediately contact Eagle River Fire Protection District or Vail Fire Department and notify of the confined space emergency.
   4. Immediately contact Eagle County Ambulance District and notify of the confined space emergency.
   5. When the fire department & emergency services arrive, give all pertinent information including cause, time, number of employees, MSDS, rescue equipment, etc.
   6. Determine how many people are affected and what SCBA and communication resources they may have.
   7. Assigned District personnel will bring additional rescue equipment to the site of the confined space emergency, approved hoists, ladders, lifelines, SCBA, atmosphere monitors, etc.

C. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      a. **Major Emergency**, notify:
         (1) Eagle River Fire Protection District.
         (2) Eagle County Ambulance District.
         (3) Safety Coordinator.
         (4) Appropriate District staff.
         (5) Appropriate department manager.
         (6) General Manager.
      b. **Disaster**, notify:
         (1) Eagle River Fire Protection District.
         (2) Eagle County Ambulance District.
         (3) Safety Coordinator.

(4) Appropriate District staff.
(5) Appropriate department manager.
(6) General Manager.

D. Rescue

1. Per the District's Safety Manual, employees are **NOT** to act as entry-rescue personnel. Employees may only conduct retrieval rescue if entrants are wearing a harness and are connected to a tripod and rescue hoist. They are to assist the fire department rescue team in whatever manner the fire department determines appropriate. This may include fire department use of the additional rescue equipment.

E. Enact Crisis Communication Plan

1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
2. File any injury claims with Human Resources for worker's compensation purposes.

F. Assess Response

1. Hold an Emergency Response Team meeting within 48 hours after the confined space emergency is resolved to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

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Section 5.13- Power Failure Emergency Procedure

A. Determine the Extent of the Outage
   1. Determine if the outage is a responsibility of the utility service provider; it may require a visit to the facility.
   2. **SUMMER**-Determine the class of emergency.
      a. **Minor Emergency**
         (1) Loss of 10 percent or less of the water supply.
      b. **Major Emergency**
         (1) Loss of 10 to 50 percent of the water supply.
         (2) Power outage loss at a District office.
      c. **Disaster**
         (1) Loss of more than 50 percent of the water supply.
         (2) Power outage loss at a District office.
   3. **WINTER**-Determine the class of emergency.
      a. **Minor Emergency**
         (1) Loss of 50 percent or less of the water supply.
      b. **Major Emergency**
         (1) Loss of 50 to 75 percent of the water supply.
         (2) Power outage loss at a District office.
      c. **Disaster**
         (1) Loss of all well sites.
         (2) Power outage loss at a District office.
   4. **CORTINA BPS**-Determine class of emergency
      a. **Minor Emergency**
         (1) Power outage for less than 3 hours
      b. **Major Emergency**
         (1) Power outage for 3-8 hours
      c. **Disaster**
         (1) Power outage for 8 hours or more
   5. Determine the level of response that is required.

B. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      a. **Minor emergency**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) Safety Coordinator.
         (4) General Manager.
         (5) Utility service provider(s), if necessary.
         (6) Engineer(s) and/or contractor(s), if necessary – inspect for electrical damage.
      b. **Major emergency**, notify:
         (1) Appropriate department manager.

(2) Appropriate District staff.
(3) Safety Coordinator.
(4) General Manager.
(5) Utility service provider(s), if necessary.
(6) Engineer(s) and/or contractor(s), if necessary – inspect for electrical damage.

c. **Disaster**, notify:
(1) Appropriate department manager.
(2) Appropriate District staff.
(3) Safety Coordinator.
(4) General Manager.
(5) Utility service provider(s), if necessary.
(6) Engineer(s) and/or contractor(s), if necessary – inspect for electrical damage.

C. Enact Crisis Communication Plan

1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
2. Notify affected water users through posting doors and Customer Service calls.
3. Outline situation to users. Explain how they will be affected and if they will require any action.

D. Access and Temporary Resolutions

1. Provide access to well houses.
2. Open control valve(s), if necessary.
3. Collection & Distribution will haul the appropriate generator to the site.
4. Set-up all traffic control necessary.
5. ***The Maintenance/Electrical Section of the Water Dept are the only District employees authorized to connect and restore power using portable generation.***
6. Use all connections for emergency generator supply.
7. Inspect the electrical system for damage. All sites with variable frequency drives should be taken off automatic control, inspected for damage, and restarted manually at the site. All other sites should be inspected as soon as possible for damage. Some equipment may require a manual reset in order to restart.
8. Use appropriate contractors for repairs as needed.
9. Test and recharge remote terminal unit uninterruptible power supplies.
10. Reactivate system upon notification and approval of appropriate department manager.
11. Document damages with photographs and reports.
12. Refer damage to the PIO for insurance purposes.
13. Report all injuries to Human Resources for worker's compensation purposes.

E. Response Strategy

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1. *Communication:* Determine if the outage is local to the plant or regional and the expected down time the utility expects. This will help provide operations staff some measure of the seriousness of the situation and organize procurement of additional diesel fuel for the generator or addition equipment.
2. *Process Assessment:* Determine which processes are affected and perform changes in plant operation that minimizes the effect of the loss of power. All other equipment can be powered from an emergency generator, however the load should be minimized as much as possible and status of all equipment checked.
3. *Generating Equipment:* Emergency generators should be tested and run weekly and continuously maintained to be sure the equipment can be utilized. The Water Dept's Maintenance and Electrical Section is responsible for the Generator Testing Program. This includes scheduling test dates and times, maintaining SOPs, and lists of compatible generators and sites. Alternatively, generators can be rented from vendors, refer to Section 6 of this plan to find local vendor information.

F. Assess Response

1. Hold Emergency Response Team meeting within 48 hours after power is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Section 5.14- Explosion Emergency Procedure

A. A hydrocarbon (LEL) analyzer in the headworks of each wastewater facility would provide protection from explosion resulting from chemicals being spilled into the sewer system or underground storage tank entering the sewer from I/I. The LEL analyzer is set up to alarm at 10% LEL and shut down the electrically powered equipment at 25% LEL.

B. Call 911 Immediately Upon Receiving Report of Explosion

C. Proceed to the Scene of the Explosion
   1. Investigate and assess damages. Safety is the primary concern. **DO NOT** compromise your safety to gain access to the facility.
   2. Determine the location of the damage in the facility.
   3. Determine the effect of the damage on the facility and how it might create problems in other areas of the District.
   4. Determine the class of emergency.
      a. **Minor Emergency**
         (1) Minor property damage to the facility. The remainder of the facility is still functioning properly.
         (2) Damage is to a small or infrequently used facility. The capability of the overall system is still intact.
      b. **Major Emergency**
         (1) Personnel have been injured.
         (2) Damage puts the facility at reduced capabilities but is still somewhat intact.
         (3) The facility is the only supply source to a zone.
         (4) Explosion has damaged other non-District property.
      c. **Disaster**
         (1) Serious injury or death has occurred.
         (2) Damage to the facility is extensive enough to put it completely out of service.
         (3) The facility is the only supply source to a zone.
         (4) Explosion has damaged other non-District property.

D. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      a. **Minor Emergency**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) Safety Coordinator.
         (4) General Manager.
         (5) Engineer(s) and/or contractor(s), if necessary.
      b. **Major Emergency**, notify:
         (1) Appropriate department manager.

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(2) Appropriate District staff.
(3) Safety Coordinator.
(4) General Manager.
(5) Utility service provider(s), if necessary.
(6) Engineer(s) and/or contractor(s), if necessary.

c. **Disaster**, notify:
(1) Appropriate department manager.
(2) Appropriate District staff.
(3) Safety Coordinator.
(4) General Manager.
(5) Utility service provider(s), if necessary.
(6) Engineer(s) and/or contractor(s), if necessary.

E. Enact Crisis Communication Plan
1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
a. Board of directors.
b. Legal counsel.

F. Repair Damage to Facility/Mitigate Effect on System
1. When possible, either bypass the facility or change the operation in an attempt to minimize the effect on the overall operation of a zone or the District.
2. Proceed with repairs utilizing contractors as needed.
3. Complete repairs and restore to service.
4. Reactivate the system upon notification and approval of appropriate department manager.
5. Document the damage with pictures.
6. Refer damage to the PIO for insurance purposes.
7. File any injury claims with Human Resources for worker's compensation purposes.

G. Assess Response
1. Hold Emergency Response Team meeting within 48 hours after explosion emergency to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Section 6.0- Man-Made Emergencies

Our government has developed plans and guidelines that assist businesses and organizations in planning for such catastrophic events. The term "Homeland Security" encompasses these plans, guidelines, and the agencies that regulate these recommendations.

Public utilities have been a high focus when dealing with homeland security. Due to the nature of business and the number of people that can be potentially affected by a terrorist act, water & wastewater utilities are a potentially high target. Eagle River Water & Sanitation District takes these threats seriously and has developed plans and guidelines to deal with such threats.

Although, we cannot predict when or where an intentional attack might occur, we can anticipate what type of threats are more likely to happen. The following security measures and procedures are in place to assist the District in minimizing service interruption, damage to facilities & property, and threat to life & environment.

For the following scenarios, it is important to treat each situation like a crime scene, preserving all potential evidence until law enforcement and federal officials have concluded their investigation.

Section 6.1- Threat of or Actual intentional Contamination of the Water System

A. Proceed to the Scene
   1. Investigate and assess the extent of contamination.
      a. Isolate contamination.
      b. Shut down any intake or possible entry routes to prevent contaminated water from spreading to any other water source.
      c. Obtain and preserve latest full battery of background tests as baseline.
   2. Determine the effect and classify the emergency.
      a. Minor Emergency
         (1) Less than five (5) customers have lost supply.
         (2) One of several supplies to a zone is lost. Other sources continue to supply the zone.
         (3) Booster pump is out of service. Low pressure is still available.
      b. Major Emergency
         (1) A major supply or interconnect is out of service. Water is still available.
         (2) Many small wells or interconnect are out of service. Water is still available.
      c. Disaster
         (1) Supply to an entire zone is lost.
         (2) Water previously pumped to a zone is contaminated.
   3. Determine the level of response that is required.
   4. Determine what repairs are required and what personnel, contractors, and equipment are needed.

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B. Notify the **Emergency Response Team** (see Appendices)

1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
   a. **Minor Emergency**, notify:
      (1) Water Department Manager.
      (2) Appropriate District staff.
      (3) General Manager.
      (4) Safety Coordinator.
      (5) Vail Valley Medical Center.
      (6) Appropriate Law Enforcement Agency.
      (7) Federal Bureau of Investigation
      (8) National Response Center
      (9) National Infrastructure Protection Center
      (10) Engineer(s) and/or contractor(s), if necessary.
      (11) Appropriate Fire Department (if fire fighting supplies are lost)
   b. **Major Emergency**, notify:
      (1) Appropriate department manager.
      (2) Appropriate District staff.
      (3) General Manager.
      (4) Safety Coordinator.
      (5) Vail Valley Medical Center.
      (6) Appropriate Law Enforcement Agency.
      (7) Federal Bureau of Investigation
      (8) National Response Center
      (9) National Infrastructure Protection Center
      (10) EPA/Colorado Department of Health, if necessary.
      (11) Engineer(s) and/or contractor(s), if necessary.
      (12) Appropriate Fire Department (if fire fighting supplies are lost)
   c. **Disaster**, notify:
      (1) Appropriate department manager.
      (2) Appropriate District staff.
      (3) General Manager.
      (4) Safety Coordinator.
      (5) Vail Valley Medical Center.
      (6) Appropriate Law Enforcement Agency.
      (7) Federal Bureau of Investigation
      (8) National Response Center
      (9) National Infrastructure Protection Center
      (10) EPA/Colorado Department of Health, if necessary.
      (11) Engineer(s) and/or contractor(s), if necessary.
      (12) Appropriate Fire Department (if fire fighting supplies are lost)

C. Enact Crisis Communication Plan

1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
2. Outline the situation to users and any action that might be required by them.
3. Continue to monitor the system and document results.

D. Determine alternative water supply.

1. Be prepared to be out of water for at least 72 hours, or until sampling results are obtained.
2. Coordinate with local businesses to obtain alternative water supply.
3. Distribute alternative water supply to customers out of service.
4. Divert distribution of potable water to affected areas as required.

E. Repair or Eliminate Source of Contamination

1. Check other supply sources to be sure they are secure, in service and supplying water to affected areas.
2. Increase sampling.
3. Assess the need to remediate tanks, filters, basins, and other possible contaminated equipment.
4. Use the appropriate contractor(s) to perform repairs to stop further spread of contamination.
5. Complete repairs and restore services.
6. Flush system based on sampling results.
7. Reactivate system upon notification and approval of appropriate department manager.
8. Document the damage with pictures.
9. Refer damage to the PIO for insurance purposes.
10. Monitor health of employees.
11. File any injury claims with Human Resources for worker's compensation purposes.
12. Dispose of contaminated materials and PPE as necessary.

F. Assess Response

1. Hold Emergency Response Team meeting within 48 hours after water supply is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

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Section 6.2- Threat of or Actual Contamination at a Major Event

A. Proceed to the Scene
   a. Investigate and assess the extent of contamination.
      i. Coordinate isolation of contaminated water at event.
      ii. Shut down any intake or possible entry routes to prevent contaminated water from spreading to any other water source.
      iii. Plan draining and sampling of water.
   b. Determine the effect and classify the emergency.
      i. Minor Emergency
         1. Water supply at event is contaminated and isolated.
      ii. Major Emergency
         1. Water supply at event is contaminated and possibly spreading outside to the rest of the system.
      iii. Disaster
         1. Water supply at event and surrounding areas are contaminated.
   c. Determine the level of response that is required.
   d. Determine what repairs are required and what personnel, contractors, and equipment are needed.

B. Notify the **Emergency Response Team** (see Appendices)
   a. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      i. **Minor Emergency**, notify:
         1. Water Department Manager.
         2. Appropriate District staff.
         3. General Manager.
         4. Safety Coordinator.
         5. Vail Valley Medical Center.
         6. Appropriate Law Enforcement Agency.
         7. Federal Bureau of Investigation
         8. National Response Center
         9. National Infrastructure Protection Center
         10. Engineer(s) and/or contractor(s), if necessary.
         11. Appropriate Fire Department (if fire fighting supplies are lost)
      ii. **Major Emergency**, notify:
         1. Appropriate department manager.
         2. Appropriate District staff.
         3. General Manager.
         4. Safety Coordinator.
         5. Vail Valley Medical Center.
         6. Appropriate Law Enforcement Agency.

7. Federal Bureau of Investigation
8. National Response Center
9. National Infrastructure Protection Center
10. EPA/Colorado Department of Health, if necessary.
11. Engineer(s) and/or contractor(s), if necessary.
12. Appropriate Fire Department (if fire fighting supplies are lost)

iii. **Disaster**, notify:

1. Appropriate department manager.
2. Appropriate District staff.
3. General Manager.
4. Safety Coordinator.
5. Vail Valley Medical Center.
6. Appropriate Law Enforcement Agency.
7. Federal Bureau of Investigation
8. National Response Center
9. National Infrastructure Protection Center
10. EPA/Colorado Department of Health, if necessary.
11. Engineer(s) and/or contractor(s), if necessary.
12. Appropriate Fire Department (if fire fighting supplies are lost)

C. Enact Crisis Communication Plan

4. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
5. Outline the situation to users and any action that might be required by them.
6. Continue to monitor the system and document results.
7. Consider broadening notifications to the general public and other affected customers.

D. Determine alternative water supply.

a. Be prepared to be out of water for at least 72 hours, or until sampling results are obtained.
b. Coordinate with local businesses to obtain alternative water supply.
c. Distribute alternative water supply to affected event.
d. Divert distribution of potable water to affected areas as required.

E. Repair or Eliminate Source of Contamination

a. Check other supply sources to be sure they are secure, in service and supplying water to affected areas.
b. Consider flushing the system via hydrants in the distribution system.
c. Assess the need to decontaminate/replace distribution system components.
d. Use the appropriate contractor(s) to perform repairs to stop further spread of contamination.
e. Coordinate decontamination with wastewater treatment plant.
f. Complete repairs and restore services.

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g. Flush system based on sampling results.
h. Reactivate system upon notification and approval of appropriate department manager.
i. Document the damage with pictures.
j. Refer damage to the PIO for insurance purposes.
k. Monitor health of employees.
l. File any injury claims with Human Resources for worker's compensation purposes.
m. Dispose of contaminated materials and PPE as necessary.

F. Assess Response
a. Hold Emergency Response Team meeting within 48 hours after water supply is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
b. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Section 6.3- Notification from Health Officials of Potential Contamination of the Water System.

G. Proceed to the Scene
   a. Investigate and assess the extent of contamination.
      i. Shut down any intake or possible entry routes to prevent contaminated water from spreading to any other water source.
      ii. Consider whether to isolate contamination (if source water is affected)
      iii. Consider whether to isolate water in the affected area if possible.
      iv. Consider whether to increase residual disinfectant levels.
      v. Obtain and preserve latest full battery of background tests as baseline.
   b. Determine the effect and classify the emergency.
      i. Minor Emergency
         1. Less than five (5) customers have lost supply.
         2. One of several supplies to a zone is lost. Other sources continue to supply the zone.
         3. Booster pump is out of service. Low pressure is still available.
      ii. Major Emergency
         1. A major supply or interconnect is out of service. Water is still available.
         2. Many small wells or interconnect are out of service. Water is still available.
      iii. Disaster
         1. Supply to an entire zone is lost.
         2. Water previously pumped to a zone is contaminated.
   c. Determine the level of response that is required.
   d. Determine what repairs are required and what personnel, contractors, and equipment are needed.

H. Notify the **Emergency Response Team** (see Appendices)
   a. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      i. **Minor Emergency**, notify:
         1. Water Department Manager.
         2. Appropriate District staff.
         3. General Manager.
         4. Safety Coordinator.
         5. Vail Valley Medical Center.
         6. Appropriate Law Enforcement Agency.
         7. Federal Bureau of Investigation
         8. National Response Center
         9. National Infrastructure Protection Center
         10. Engineer(s) and/or contractor(s), if necessary.
         11. Appropriate Fire Department (if fire fighting supplies are lost)
      ii. **Major Emergency**, notify:

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1. Appropriate department manager.
2. Appropriate District staff.
3. General Manager.
4. Safety Coordinator.
5. Vail Valley Medical Center.
6. Appropriate Law Enforcement Agency.
7. Federal Bureau of Investigation
8. National Response Center
9. National Infrastructure Protection Center
10. EPA/Colorado Department of Health, if necessary.
11. Engineer(s) and/or contractor(s), if necessary.
12. Appropriate Fire Department (if fire fighting supplies are lost)

iii. **Disaster**, notify:

1. Appropriate department manager.
2. Appropriate District staff.
3. General Manager.
4. Safety Coordinator.
5. Vail Valley Medical Center.
6. Appropriate Law Enforcement Agency.
7. Federal Bureau of Investigation
8. National Response Center
9. National Infrastructure Protection Center
10. EPA/Colorado Department of Health, if necessary.
11. Engineer(s) and/or contractor(s), if necessary.
12. Appropriate Fire Department (if fire fighting supplies are lost)

I. Enact Crisis Communication Plan

8. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
9. Outline the situation to users and any action that might be required by them.
10. Continue to monitor the system and document results.

J. Determine alternative water supply.

a. Be prepared to be out of water for at least 72 hours, or until sampling results are obtained.
b. Coordinate with local businesses to obtain alternative water supply.
c. Distribute alternative water supply to customers out of service.
d. Divert distribution of potable water to affected areas as required.

K. Repair or Eliminate Source of Contamination

a. Check other supply sources to be sure they are secure, in service and supplying water to affected areas.
b. Increase sampling.

c. Assess the need to remediate tanks, filters, basins, and other possible contaminated equipment.
d. Use the appropriate contractor(s) to perform repairs to stop further spread of contamination.
e. Complete repairs and restore services.
f. Flush system based on sampling results.
g. Reactivate system upon notification and approval of appropriate department manager.
h. Document the damage with pictures.
i. Refer damage to the PIO for insurance purposes.
j. Monitor health of employees.
k. File any injury claims with Human Resources for worker's compensation purposes.
l. Dispose of contaminated materials and PPE as necessary.

L. Assess Response
a. Hold Emergency Response Team meeting within 48 hours after water supply is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
b. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

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Section 6.4- Supervisory Controlled Automated Data Acquisition (SCADA) Failure Emergency Procedure

A. Determine the Extent of the Failure
   1. Determine if the SCADA system can be rebooted from one of the computers.
   2. Determine which sites do not have communication.
   3. Determine if the problem is a hardware/software or communication problem. When possible, transfer controls to manual operation.
   4. Determine the class of emergency.
      a. Minor Emergency
         (1) System is operating with loss of communication to three (3) or less sites.
      b. Major Emergency
         (1) System is operating with loss of communication to more than three (3) sites.
         (2) Affected site(s) is major supply or storage to a zone.
      c. Disaster
         (1) System is operating without communication or control to all sites.
         (2) System is not operating at all.
         (3) Affected site(s) is only supply or storage to a zone.

B. Notify the **Emergency Response Team** (see Appendices)
   1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
      a. **Minor Emergency**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) Safety Coordinator
         (4) General Manager.
            1. Federal Bureau of Investigation
            2. National Response Center
            3. National Infrastructure Protection Center
         (5) Engineer(s) and/or contractor(s), if necessary (SCADA Technicians).
      b. **Major Emergency**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.
         (3) Safety Coordinator
         (4) General Manager.
            4. Federal Bureau of Investigation
            5. National Response Center
            6. National Infrastructure Protection Center
         (5) Engineer(s) and/or contractor(s), if necessary (SCADA Technicians).
      c. **Disaster**, notify:
         (1) Appropriate department manager.
         (2) Appropriate District staff.

(3) Safety Coordinator
(4) General Manager.
7. Federal Bureau of Investigation
8. National Response Center
9. National Infrastructure Protection Center.
(5) Engineer(s) and/or contractor(s), if necessary (SCADA Technicians).

C. Enact Crisis Communication Plan
1. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
   a. Board of directors.
   b. Legal counsel.
2. Outline situation to users and any actions that might be required by them.

D. Repair and Temporary Operation
1. Operate the affected sites in manual control.
2. Provide assistance to the contractors as needed.
3. With FBI assistance, make an image copy of all system logs to preserve evidence.
4. With FBI assistance, check for implanted backdoors and other malicious code and eliminate them before re-starting SCADA.
5. Install safeguards before restarting SCADA.
6. Reactivate the system upon notification and approval of the appropriate department manager.
7. Continue to monitor the sites. Take visual on-site readings as required.
8. Assess/implement additional protections for SCADA system.
9. Document damages with photographs and reports.
10. Refer damage to the PIO for insurance purposes.
11. File any injury claims with Human Resources for worker's compensation purposes.

E. Assess Response
1. Hold Emergency Response Team meeting within 48 hours after SCADA is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
2. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

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Section 6.5- Significant Structural Damage

H. Proceed to the Scene of the Structural Damage

1. Investigate and assess damages. Safety is the primary concern. **DO NOT** compromise your safety to gain access to the facility.
2. Determine the location of the damage in the facility.
3. Determine the effect of the damage on the facility and how it might create problems in other areas of the District.
4. Isolate, shut down, and secure the site, if necessary.
5. Supply water to areas using alternate treatment facilities (Avon/Edwards/Gore).
6. Redirect flow to maintain water pressure, if necessary.
7. Determine the class of emergency.
   - **a. Minor Emergency**
     - (1) Minor property damage to the facility. The remainder of the facility is still functioning properly.
     - (2) Damage is to a small or infrequently used facility. The capability of the overall system is still intact.
   - **b. Major Emergency**
     - (1) Personnel have been injured.
     - (2) Damage puts the facility at reduced capabilities but is still somewhat intact.
     - (3) The facility is the only supply source to a zone.
     - (4) Explosion has damaged other non-District property.
   - **c. Disaster**
     - (1) Serious injury or death has occurred.
     - (2) Damage to the facility is extensive enough to put it completely out of service.
     - (3) The facility is the only supply source to a zone.
     - (4) Explosion has damaged other non-District property.

I. Notify the **Emergency Response Team** (see Appendices)

1. Contact the appropriate Emergency Response Team members based on the class and source of emergency. ***Always contact the appropriate on-call personnel after-hours.*** Describe the emergency giving pertinent details.
   - a. **Minor Emergency**, notify:
     - (1) Appropriate department manager.
     - (2) Appropriate District staff.
     - (3) Safety Coordinator.
     - (4) General Manager.
     - (5) Appropriate Law Enforcement Agency.
     - (6) Federal Bureau of Investigation
     - (7) National Response Center
     - (8) National Infrastructure Protection Center
     - (9) Engineer(s) and/or contractor(s), if necessary.
     - (10) Appropriate Fire Department (if fire fighting supplies are lost)
   - b. **Major Emergency**, notify:

(1) Appropriate department manager.
(2) Appropriate District staff.
(3) Safety Coordinator.
(4) General Manager.
(5) Appropriate Law Enforcement Agency.
(6) Federal Bureau of Investigation
(7) National Response Center
(8) National Infrastructure Protection Center
(9) Utility service provider(s), if necessary.
(10) Engineer(s) and/or contractor(s), if necessary.
(11) Appropriate Fire Department (if fire fighting supplies are lost)

c. **Disaster**, notify:
(1) Appropriate department manager.
(2) Appropriate District staff.
(3) Safety Coordinator.
(4) General Manager.
(5) Appropriate Law Enforcement Agency.
(6) Federal Bureau of Investigation
(7) National Response Center
(8) National Infrastructure Protection Center
(9) Utility service provider(s), if necessary.
(10) Engineer(s) and/or contractor(s), if necessary.
(11) Appropriate Fire Department (if fire fighting supplies are lost)

J. Enact Crisis Communication Plan
2. Notify Public Information Officer (PIO), as necessary, for major emergencies or disasters. The Public Information Officer will notify the following people, if needed:
a. Board of directors.
b. Legal counsel.

K. Investigate
1. Deploy damage assessment teams; if intentional act, treat as crime scene
2. Inform law enforcement and FBI of potential hazardous materials
3. Consider increasing security measures

L. Determine alternative water supply.
1. Coordinate with local businesses to obtain alternative water supply.
2. Distribute alternative water supply to customers out of service.
3. Divert distribution of potable water to affected areas as required.

M. Repair Damage to Facility/Mitigate Effect on System
1. When possible, either bypass the facility or change the operation in an attempt to minimize the effect on the overall operation of a zone or the District.
2. Proceed with repairs utilizing contractors as needed.
3. Complete repairs and restore to service.

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4. Reactivate the system upon notification and approval of appropriate department manager.
5. Document the damage with pictures.
6. Refer damage to the PIO for insurance purposes.
7. File any injury claims with Human Resources for worker's compensation purposes.

N. Assess Response

3. Hold Emergency Response Team meeting within 48 hours after water supply is restored to evaluate the effectiveness of the response. Complete an Emergency Response Debriefing form (see Appendices).
4. Consider what actions can be improved upon, if any actions should be added to the emergency response plan, and if any actions should be deleted from the emergency response plan.

Section 7.0- Consequence Mitigation Measures

The mitigation measures documented in this section are derived from the Security Vulnerability Assessment conducted in September of 2003. Listed are mitigation measures that the District has already implemented or is planning to implement in the future. Each will be described in detail with a timeline of progress if not yet completed.

Mitigation Measure	District Plan	Timeline
Train and drill the Emergency Response Plan (ERP) procedures with employees, provide copies to local first responders, and conduct practice drills with first responders.	Employees are trained in current ERP and local first responders possess current version. Plan to re-train all employees on revised ERP and complete practice drills with local first responders.	Completed.
Cross-train personnel in the operation and maintenance of critical system components.	Field Operations Department and Vail-On Call employees currently cross-trained on all critical system components.	On going.
Acquire necessary equipment to isolate parts of the system.	District currently possesses the necessary equipment to isolate parts of the system.	Completed.
Maintain enough equipment/supplies and provide training for crews to replace pipe, valves, or pumps quickly enough to avoid high consequences. These materials should be stored in dispersed storage locations separate from the treatment facilities, so the materials cannot be disabled during an attack.	District currently possesses the necessary equipment to isolate parts of the system.	Completed.
Develop system interconnects that are adequate to supply enough water to prevent high consequences should a supply disruption occur.	Past engineering and design have made the system interconnects highly redundant. System redundancy is always considered in future engineering and design.	On going.
Work with local suppliers to maintain or acquire large supplies of bottled water in case of a contamination event, thus avoiding high consequences.	Work with local Wal-Mart, City Market, and Safeway Stores to create Mutual Aid agreements for large supplies of bottled water in case of emergency.	Completed.
Develop mutual aid relationships with neighboring, regional, or	Agreements already in place with some utilities and agencies.	On going, currently a

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statewide utilities to respond to major disruptions and facility damage, thus avoiding high consequences.	Work to create and make official agreements between more utilities and agencies to help respond to emergencies.	member of CoWARN and serving as NW Regional Chair.
Develop and practice an effective Public Information campaign (also see Crisis Communications Plan guidance) to keep customers informed, and therefore avoid high consequences.	Customer Service and the Administration Department work together to keep the public and customers informed of any changes in the system and emergency situations. Refer to the Crisis Communication Plan.	Completed.
Investigate the use of back-flow preventions.	District currently regulates the use of backflow prevention devices. All new installations since 2001 are required to incorporate backflow prevention. All commercial installations are required to undergo annual testing of the backflow device to prevent accidental contamination. High water pressure, dilution, and chlorine residual also help prevent contamination.	In progress/On going.
Implement additional security measures when the national threat level is raised to "Orange" or "Red".	All gates are closed during regular business hours. Water Dept doors are locked during regular business hours. No public tours are allowed. All employees are on heightened alert for suspicious activity	Completed/On going
During renovations, strive to increase strength, reliability, and control of facilities through innovative construction, redesign (including waterproofing electrical components), automation, or relocation (i.e., provide for an optimal critical component design that addresses impacts from multiple hazards).	Considered in all future engineering and design for facilities.	In progress/On going.

Section 8.0- Emergency Contact Information *(updated 1/7/14)*

Colorado Department of Health	
Emergency Response, Steamboat Springs	1-877-518-5608 24 hour emergency line
Federal Bureau of Investigation	
Denver Office	303-629-7171
Glenwood Springs Office	970-945-8157
Homeland Security Watch Office National Ops Center	1-202-282-8101
National Response Center	1-800-424-8802
Water ISAC-- 24 hour emergency	1-866-426-4722

Contractors	
B&B Excavating/United Company	
Administration Office (Eagle Office)	970-926-3311
Administration Office (Grand Junct. Office)	970-243-4900
Kyle Aopha, General Manager	970-640-7340 (cell) 970-243-4900 (office)
Greg Kass, Equipment Mgr.	970-390-7274
Dave Coblentz, Supt.	970-376-6431
Ewing Trucking & Construction	
Administration Office	926-2770
Bart Ewing, Owner	390-3708 cellular
Mary Kate Ewing, Office Manager	
Bart Ewing	
Heavy Equipment and Large Trucks	
New Electric (24 Hours)	
Administration Office	970-949-4651
Jay VanVoost (Mobile)	970-376-1564
Tri-Phase Electric Company	
Administration Office, Gypsum	970-524-7135
Contact: Terry Harris	
Hagemeyer, N.A.	
Denver Warehouse	303-322-9211
- Safety Equipment and PPE	

Eagle County	
Colorado Division of Water Resources	
Dam Inspector for State of Colorado- Division 5	970-945-5665, ext. 5010
Diane McClaskey, Main Operator	
Erin Gleason, Dam Safety Engineer	970-945-5665 ext.5016
720-289-4587 (Cell)	
Eagle County Road and Bridge	
Administration Office (Business Hours Only)	970-328-3540

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Gordon Adam, Director, Radio Call #145	970-471-4753 mobile
John Harris, Eagle District Supervisor, Radio Call #164	970-471-4152 mobile
Kerry O'Neill, Southwest District Supervisor, Radio Call #190	970-471-1337 mobile
Randy Schlegel, Northwest District Supervisor, Radio Call #182	970-653-4463
Harry Taylor, Fleet Services	970-328-3543
Eagle District-Glenwood Canyon to Vail Pass including Colorado River Road, Sweetwater, and Red Cliff	
Southwest District – Basalt and El Jebel area	
Northwest District – Burns, McCoy, and Trough Road	
Eagle County Sheriff's Office	
Administration Office	970-328-8500
General Dispatch/Emergency Response	970-479-2201
Joseph Hoy, Sheriff	
Emergency Management	
Barry Smith	970-328-3545
Environmental Health Department	
Administration Office (Business Hours Only)	970-328-8755
Climax Molybdenum Mine	
Main Number	719-486-2150
Ray Lazus (Env. Manager)	719-486-7584-work 719-201-1282-cell
Matt Main (Safety)	719-486-7719-work 719-271-8162-cell

Electric Companies	
Holy Cross Energy, Press 1 for Emergency Dispatch After Hours. You have to leave a message for a return call.	970-949-5892
Xcel Energy (in certain areas) power outage	800-895-1999
Source Gas – Emergency Dispatch	800-563-0012

Emergency Response Centers	
Eagle County Communication Center (Dispatch) for ALL Types of Emergencies (includes Police, Fire, and Ambulance)	**911**
Salvation Army (Eagle County)	970-748-0704
PO Box 2183 Edwards, CO 81632	
CHEMTREC (Chemical Transportation Emergency Center)	800-424-9300
Rocky Mountain Poison Center	800-332-3073
Hazardous Devices Ops. Center (formally FBI bomb center)	703-985-4080

Environmental Protection Agency (EPA)	
National Response Center (spill line) – 24 Hours	800-424-8802
Fire Departments	
Eagle County Communication Center (Dispatch) for ALL Types of Emergencies (includes Police, Fire, and Ambulance)	**911**
Eagle River Fire Protection District (Eagle-Vail to Wolcott)	
Non-Emergency Administration Office	970-748-9665
Karl Bauer, Fire Chief	970-977-0034 (cell)
Basalt and Rural Fire Protection District (Basalt)	
Non-Emergency Dispatch	970-920-5310
Scott Thompson, Fire Chief	
Greater Eagle Fire Protection District	
Non-Emergency Administration Office in Eagle	970-328-7244
John Patterson, Fire Chief	970-977-6672
Gypsum Fire Protection District (Gypsum)	
Non-Emergency Administration Office	970-524-7101
Dave Vroman, Fire Chief	970-376-4976
Eagle River Fire Protection District (Minturn Station Red Cliff)	970-479-2201
Vail General Dispatch	970-479-2200
Vail Public Safety Communications Center	
Vail Fire Department (Vail)	
Non-Emergency Administration Office	970-479-2250
MarkMiller, Fire Chief	970-477-3474
USDA Bureau of Land Mgmt.– Grand Junction Air Center	970-257-4800
Fire Operations (Grand Junction, 24 Hours)	
Chris Farinetti, Fire Management Officer	970-257-4809 (w) 970-640-4611 (c)
Jason Hofman, Unit Aviation Officer	970-683-7701 (w) 970-778-5965 (c)
Colorado Division of Wildlife	
Bill Andree Vail	970-390-2240
Craig Wescoatt Eagle	970-948-0354
Perry Will Supervisor	970-948-8409

Forest Service	
Eagle County Communication Center (Dispatch) for ALL Types of Emergencies (includes Police, Fire, and Ambulance)	**911**
Colorado State Forest Service-High Country District	
Non-Emergency Administration Office	970-887-3121 Granby
Ron Cousineau, District Forester	
USDA Forest Service	
Eagle Ranger District (Eagle)	970-328-6388
David Neely, District Ranger (Eagle/Holy Cross)	970-827-5150 970-274-2027 Mobile

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Ross Wilmore, Fire Management Officer (Fire Emergencies on-call personnel for BLM & Forest Svc.)	970-328-5867 Office 970-948-5766 Mobile

Gas	
Source Gas	800-563-0012
Xcel Energy, Gas Odor Emergency Services	800-895-2999
Hospitals	
Care Flight/St. Mary's (Grand Junction) (24 Hours)	800-332-4923
Air Life (Aurora)	800-821-1994
Colorado Mountain Medical:*	
Eagle *	970-328-1650
Edwards *	970-926-6340
Vail *	970-476-5695
Doctors on Call *	970-949-5434
Eagle County Health Services District/Ambulance	970-926-5270
Flight for Life (Summit County/St. Anthony's Hospital North)	800-332-3123
Presbyterian St. Luke's Hospital (Denver)	303-839-6000 switchboard 720-754-4111 Adults 720-754-4115 Pediatrics emergency
St. Mary's Hospital Emergency Room (Grand Junction)	970-298-2991
Vail Valley Medical Center	970-476-2451
Valley View Hospital (Glenwood Springs)	970-945-6535
Western Eagle County Ambulance District (Eagle-Gypsum) 970-569-2359 (after hours)	970-328-1130

* All employees must obtain treatment for work-related injuries and illnesses at these facilities, unless there is a life-or-limb threatening emergency; then the employee will be sent to the nearest emergency medical facility.

Media – Radio Stations	
KSKE, KQSE Hispanic Station, Spanish only,	949-0140
KKCH-FM Radio (all 3 stations) Avon – Local	949-1464 fax
KUNC-FM Radio Greeley	1-800-443-5862 970-378-2580 fax
KYSL-FM Radio Dillon – Local	970-513-9393 970-262-3677 fax

Media – Television Stations	
KVBA-TV8 & TV17 (Division of Vail Resorts)	754-8888
1060 W. Beaver Creek. Blvd., Avon	754-3008 fax
Vail Valley Community TV (Channel 5)	949-5657
331 Metcalf Road, Avon	949-5410 fax
vailchan5@comcast.net	
KCNC-TV (Channel 4, CBS)	
Newsroom Direct Line	303-830-6464
Newsroom Fax	303-830-6380
Assignment Editor: Doug Hoffacker	303-830-6464
kcncnews@cbs.com-Best way to reach them	
KUSA-TV (Channel 9, NBC)	
Newsroom Direct Line	303-871-1499
Newsroom Fax	303-698-4700
Assignment Editor: Kris Mulholland	303-871-1499
desk@9news.com the best way to reach them	
KWGN-TV (Channel 2, CNN) also Channel 31	
Newsroom Direct Line	303-595-3131
Newsroom Fax	303-566-7631
Assignment Editor: Gale O'Brien Manager	303-566-7600
news@denvernewshd.com *(email will go to both channels 2 and 31)*	
Media – Daily Newspapers	
Denver Post	
Newsroom Direct Line	303-954-1201
E-Mail: newsroom@denverpost.com (send all requests to the newsroom, and they will direct to the proper person	
Customer Service	303-832-3232
Vail Daily	970-949-0555

Media – Weekly Newspapers	
Eagle Valley Enterprise	970-328-6333

Police Agencies	
Eagle County Communication Center (Dispatch) for ALL Types of Emergencies (includes Police, Fire, and Ambulance)	**911**
Avon Police Department (Non-Emergency Admin. Office)	970-748-4040
Colorado Bureau of Investigations (Dept. of Public Safety)	303-239-4300
Identification	303-239-4208
Program Support Unit	303-239-4222
Colorado State Police Dispatch (Region 4)	970-824-6501

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Federal Bureau of Investigations	
Denver	303-629-7171
Grand Junction	970-242-8360
Minturn Police Department (Non-Emergency)	970-827-4272
Vail Police Department (Non-Emergency Admin. Office)	970-479-2201
	970-479-2202

Rentals – Equipment	
United Rentals (1045 Chambers Ave. in Eagle) 24 hr.	970-328-3443
Wagner Rents (045 Earhart in Gypsum)	970-328-2080

Telephone Companies	
CenturyLink	
Repair Service	800-824-2877
Business Accounts (Business Hours)	866.768.1847
Residential Accounts (Business Hours)	866.681.5154
"Utility Notification for Colorado"	800-922-1987
After Hours Emergency and Damage Line (Buried Cable Locating Assistance)	
Business Accounts (Business Hours)	800-603-6000
Residential Accounts (Business Hours)	800-244-1111

Vail Resorts snow-making Operations	
Dave Tucholke	970-331-4789
Jim Roberts (Beaver Creek)	970-331-1781
Trappers Control Room Vail	970-754-5150
Snow Central	970-754-4043
Vail Security	970-754-3049

Transportation	
Airlines:	
Delta	800-221-1212
United	800-241-6522
American	800-433-7300
Eagle County Regional Airport	
Main Direct Line & Administration Office	970-328-2680
Greg Phillips, Aviation Director	970-328-2648
Fire Department	970-328-2688

EAGLE RIVER
WATER & SANITATION
DISTRICT

Attachment 11

Section G: Operation and Management

Chemical List and SDS

Clean Water. Quality Life. ™
846 Forest Road Vail, Colorado 81657 Tel (970) 476-7480 Fax (970) 476-4089 erwsd.org

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EAGLE RIVER
WATER & SANITATION
DISTRICT

Attachment 11

Chemicals used at Avon Wastewater Treatment Facility:

1. Clarifloc Polymer
2. Caustic Soda
3. Soda Ash (dense 50lb bags)

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Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identifier: **Caustic Soda (All Grades)**
Synonyms: Caustic Soda Solution, Sodium Hydroxide Solution
Intended use: pH neutralizer , Pulping and Bleaching, Detergent, Soaps
Uses Advised Against: None known

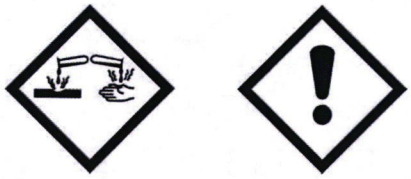
Company Identification:
DPC Industries, Inc.
DPC Enterprises, LP
DXI Industries, Inc.
DX Terminals
PO Box 24600
Houston , TX 77229-4600

Emergency :
CHEMTREC (USA) (800) 424-9300
24 hour Emergency Telephone No. (281) 457-4888
www.dxgroup.com

2. Hazard identification of the product

Physical hazards	Corrosive to metals	Category 1
Health hazards	Acute toxicity, oral Skin corrosion/irritation Serious eye damage/eye irritation	Category 4 Category 1 Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard.	Category 3

Label elements
Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Signal Word	**Danger**
Hazard Statements	Causes severe skin burns and eye damage. May be corrosive to metals. Harmful if swallowed.
Precautionary Statements	
Prevention	Keep only in original container. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with shower/ water. Wash contaminated clothing before reuse. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - Continue rinsing. Immediately call a POISON CENTER or doctor / physician. Collect spillage.
Storage	Store locked up.
Disposal	Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

Synonyms: Caustic Soda Solution, Sodium Hydroxide Solution

Ingredient	CAS Number	Weight %	
Sodium hydroxide	1310-73-2	50 - 75	Substance classified with a health or environmental hazard. Substance with a workplace exposure limit.
Sodium chloride	7647-14-5	1.0 - 10	Substance classified with a health or environmental hazard.

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4. First aid measures

General	Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Inhalation	Move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one- way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Call emergency medical care.
Eyes	Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Skin	Remove contaminated clothing. Wash skin thoroughly with water for at least 15-20 minutes. Get medical attention immediately! Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.
Ingestion	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. Immediately rinse mouth and drink plenty of water. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested the substance.

Most important symptoms and effects, both acute and delayed

Overview	Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Burning pain and severe corrosive skin damage. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep victim under observation. EYES: Causes serious eye damage. SKIN: May be harmful in contact with skin. Causes severe skin burns and eye damage.

5. Fire-fighting measures

Extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO_2). Use media appropriate for surrounding area.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire. Do not use halogenated extinguishing agents.
Special hazards arising from the substance or mixture	Sodium oxide. Decomposition by reaction with certain metals releases flammable and explosive hydrogen gas. Do not breathe mist / vapors / spray.
Special protective equipment and precautions for firefighters	Fire fighters should enter the area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surface should be exposed
Advice for fire-fighters	Fire fighters should enter the area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surface should be exposed. Move containers from fire are if you can do so without risk. Use water spray to cool containers. **ERG Guide No. 154**

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe mist or vapor. Use only with adequate ventilation. Wear appropriate personal protective equipment. Transfer and storage systems should be compatible and corrosion resistant. Observe good industrial hygiene practices. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Local authorities should be advised if significant spillages cannot be contained

Safety Data Sheet

6. Accidental release measures (Cont.)

Environmental precautions	Avoid discharge into drains, waterways or onto ground. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Following product recovery, flush area with water. Small Spills: Absorb spill with vermiculite or other inert material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.
Methods and material for containment and cleaning up	CALL Emergency Response Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover. As an immediate precautionary measure, isolate spill or leak area in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate enclosed areas.

7. Handling and storage

Precautions for safe handling	Use caution when combining with water; DO NOT add water to caustic; ALWAYS add caustic to water while stirring to minimize heat generation. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe mist or vapor. Use only with adequate ventilation. Wear appropriate personal protective equipment. Transfer and storage systems should be compatible and corrosion resistant. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store in corrosive resistant container with a resistant inner liner. Store away from incompatible materials (Reacts with water, acids, metals and reducing sugars (fructose)). Store at temperatures not exceeding 40°C/104°F. Compatible storage materials may include, but not be limited to, the following: nickel and nickel alloys, steel, plastics, plastic or rubber-lined steel, FRP, or Derakane vinyl ester resin. Do not allow material to freeze.

8. Exposure controls and personal protection

Control Parameters

Occupational Exposure Limits

CAS No.	Ingestion	Source	Value
1310-73-2	Sodium hydroxide	OSHA	TWA 2 mg/m3
		ACGIH	Ceiling: 2 mg/m3
		NIOSH	Ceiling 2 mg/m3
7647-14-5	Sodium chloride	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit

Exposure controls

Eyes	Wear chemical goggles and/or face shield.
Skin	Chemical impervious gloves. Wear chemical resistant clothing.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level, an approved respirator must be worn. Respirator type: Chemical respirator with organic vapor cartridge and full facepiece.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. Routinely wash work clothing and protective equipment to remove contaminants.
Engineering Controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. I f applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

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9. Physical and chemical properties

Physical Sate	Liquid
Appearance	Colorless to Slightly Hazy Liquid
Odor	Odorless
Odor threshold	Not Measured
pH	14
Melting point / freezing point	50 - 53 °F (10 - 11.67 °C) (50% solution)
Initial boiling point and boiling range	266 - 284 °F (130 - 140 °C) (50% solution)
Flash Point	Not Applicable
Evaporation rate	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Not Measured
Vapor pressure (Pa)	23.76 mm Hg (approximately) (77 °F (25 °C))
Relative Density	1.525 (50% solution)
Specific Gravity	1.11 - 1.53
Solubility in Water	Complete
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature (°C)	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC %	Not Measured

Other information

Molecular formula	NaOH
Molecular weight	40.1 g/mol

10. Stability and reactivity

Reactivity	Contact with metal may release flammable hydrogen gas.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Corrosive to aluminum, tin, zinc, copper and most alloys in which they are present including brass and bronze. Corrosive to steels at elevated temperatures above 40°C (104°F).
Incompatible materials	Oxidizing agents. Acids. Phosphorus. Aluminum. Zinc. Tin. Initiates or catalyzes violent polymerization of acetaldehyde, acrolein or acrylonitrile.
Hazardous decomposition products	Contact with metals (aluminum, zinc, tin) and sodium tetrahydroborate liberates hydrogen gas.

11. Toxicological information

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Sodium hydroxide - (1310-73-2)	6,600.00, Mouse - Category: NA	1,350.00, Rabbit - Category: 4	600.00, Mouse - Category: NA	No data available	No data available
Sodium chloride - (7647-14-5)	1,350.00, Rabbit - Category: 4	100.00, Rat - Category: 2	40.00, Mouse - Category: NA	10,500.00, Rat - Category: NA	No data available

Ingestion	Causes digestive tract burns. Harmful if swallowed.
Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes severe skin burns.
Eye contact	Causes severe eye burns. Causes serious eye damage.

11. Toxicological information (Cont.)

Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Permanent eye damage including blindness could result.
Acute toxicity	Harmful if swallowed
Acute Toxicity (mouth)	Not Applicable
Acute Toxicity (skin)	May be harmful in contact with skin.
Acute Toxicity (inhalation)	Not Applicable
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Eye damage/irritation	Causes serious eye damage.
Sensitization (respiratory)	Not Applicable
Sensitization (skin)	Not Applicable
Germ toxicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive Toxicity	No data available
Specific target organ systemic toxicity (single exposure)	Not available
Specific target organ systemic Toxicity (repeated exposure)	Not available
Aspiration hazard	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Chronic effects	Prolonged exposure may cause chronic effects.

12. Ecological information

Toxicity - Harmful to aquatic life.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Sodium hydroxide - (1310-73-2)	196.00, Poecilia reticulata	40.38, Ceriodaphnia dubia	Not Available
Sodium chloride - (7647-14-5)	1,100.00, Freshwater Fish	3,310.00, Daphnia magna	Not Available

Persistence and degradability	Expected to degrade rapidly in air.
Bioaccumulative potential	The product is not expected to bioaccumulate.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Waste treatment methods:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from material:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner .
Container Management:	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

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14. Transport information

Transport hazard class(es)	
UN / NA Number:	UN1824
UN Proper shipping name	Sodium hydroxide solution
DOT (Domestic Surface Transportation)	
DOT Proper Shipping Name:	Sodium hydroxide solution
DOT Hazard Class **DOT Label:**	8 8
DOT Packing Group:	II
CERCLA/DOT RQ:	1000 lbs.
Environmental hazards:	IMDG Marine Pollutant: No
Special precautions for user:	Read safety instructions, SDS and emergency procedures before handling.

15. Regulatory information

Regulatory Overview:	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory.	
US EPA Tier II Hazards:	**Fire:**	No
	Sudden Release of Pressure:	No
	Reactive:	Yes
	Immediate (Acute):	Yes
	Delayed (Chronic):	No
SARA 302 Extremely Hazardous Substance:		No
SARA 311/312 Chemicals :		Yes
SARA 313 (TRI)		No
CAA Section 112 Hazardous Air Pollutant		No
CAA Section 112R Risk Management Plan		No
State Regulations:	**N.J. RTK Substances (>1%)**	Not listed
	Penn RTK Substances (>1%)	Listed
	California Prop 65	Not listed

16. Other information

NSF Maximum Use Level (STD 60): Check BOL for facility Data. (100 to 250 mg/L)

Revision Information: This is the first revision of this SDS format, changes from previous revision not applicable.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

THE USER IS CAUTIONED TO PERFORM HIS OWN HAZARD EVALUATION AND TO RELY ON HIS OWN DETERMINATIONS.

SNF POLYDYNE

SAFETY DATA SHEET

According to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: **CLARIFLOC CE-986**

Type of product: Mixture.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Processing aid for industrial applications.

Uses advised against: None.

1.3. Details of the supplier of the safety data sheet

Company: Polydyne Inc.
1 Chemical Plant Road
PO BOX 279, Riceboro, GA 31323
United States

Telephone: 1-800-848-7659

Telefax: (912)-884-8770

E-mail address: -

1.4. Emergency telephone number

24-hour emergency number: 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to paragraph (d) of 29 CFR 1910.1200:

Not classified.

2.2. Label elements

Labelling according to paragraph (f) of 29 CFR 1910.1200:

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Hazard symbol(s):	None.
Signal word:	None.
Hazard statement(s):	None.
Precautionary statement(s):	None.

2.3. Other hazards

Aqueous solutions or powders that become wet render surfaces extremely slippery.

For explanation of abbreviations see Section 16.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable, this product is a mixture.

3.2. Mixtures

Hazardous components

Adipic acid

Concentration/ -range:	<= 2.5%
CAS Number:	124-04-9
Classification according to paragraph (d) of 29 CFR 1910.1200:	Eye Irrit. 2A;H319

Sulfamic acid

Concentration/ -range:	<= 2.5%
CAS Number:	5329-14-6
Classification according to paragraph (d) of 29 CFR 1910.1200:	Skin Irrit. 2;H315, Eye Irrit. 2A;H319

For explanation of abbreviations see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air. Getm edical attention if symptoms occur.

Skin contact:
Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.

Eye contact:
Rinse immediately with plenty of water, also under the eyelids. Get medical attention.

Ingestion:
Rinse mouth. If conscious, give the victim plenty of water to drink. Induce vomiting, but only if victim is fully conscious.

4.2. Most important symptoms and effects, both acute and delayed

Powder can cause localised skin irritation in folds of the skin or under tight clothing. Contact with dust can cause mechanical irritation or drying of the skin.

4.3. Indication of any immediate medical attention and special treatment needed.

None.

Other information:
No information available.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Water. Water spray. Foam. Carbon dioxide (CO_2). Dry powder.
Warning! Aqueous solutions or powders that become wet render surfaces extremely slippery.

Unsuitable extinguishing media:
None.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products:
Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NOx), carbon oxides (COx). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

5.3. Advice for fire-fighters

Protective measures:
Wear self contained breathing apparatus for fire fighting if necessary.

Other information:
Aqueous solutions or powders that become wet render surfaces extremely slippery.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions:
Aqueous solutions or powders that become wet render surfaces extremely slippery.

Protective equipment:
Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Emergency procedures:
Keep people away from spill/leak. Prevent further leakage or spillage if safe to do so.

6.2. Environmental precautions

As with all chemical products, do not flush into surface water.

6.3. Methods and material for containment and cleaning up

Small spills:
Do not flush with water.Clean up promptly by sweeping or vacuum.

Large spills:
Do not flush with water.Prevent unauthorized access. Sweep up and shovel into suitable containers for disposal.

Residues:
Sweep up to prevent slip hazard. After cleaning, flush away traces with water.

6.4. Reference to other sections

SECTION 7: Handling and storage; SECTION 8: Exposure controls/personal protection; SECTION 13: Disposal considerations;

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid dust formation. Avoid breathing dust. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a dry place. Incompatible with oxidizing agents.

7.3. Specific end use(s)

Processing aid for industrial applications.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Adipic acid

ACGIH: 5 mg/m³ (8 hours)

8.2. Exposure controls

Appropriate engineering controls:

Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

Individual protection measures, such as personal protective equipment:

a) Eye/face protection:
Safety glasses with side-shields. Do not wear contact lenses where this product is used.

b) Skin protection:
Chemical resistanta pron or protective suit if splashing or repeated contact with solution is likely.

i) Hand protection:
PVC or other plastic material gloves.

c) Respiratory protection:
Dust safety masks recommended where working powder concentration is more than 10 mg/m³.

d) Additional advice:
Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls:

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

a) Appearance:	Granular solid, White.
b) Odour:	None.
c) Odour Threshold:	Not applicable.
d) pH:	2.5 - 4.5 @ 5g/L
e) Melting point/freezing point:	> 100°C
f) Initial boiling point and boiling range:	Not applicable.
g) Flash point:	Not applicable.
h) Evaporation rate:	Not applicable.
i) Flammability (solid, gas):	Not combustible.
j) Upper/lower flammability or explosive limits:	Not expected to create explosive atmospheres.

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k) Vapour pressure:	Not applicable.
l) Vapour density:	Not applicable.
m) Relative density:	0.6 - 0.9
n) Solubility(ies):	Soluble in water.
o) Partition coefficient:	< 0
p) Autoignition temperature:	Not applicable.
q) Decomposition temperature:	> 200°C
r) Viscosity:	See Technical Bulletin.
s) Explosive properties:	Not expected to be explosive based on the chemical structure.
t) Oxidizing properties:	Not expected to be oxidising based on the chemical structure.

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous polymerisation does not occur.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Oxidizing agents may cause exothermic reactions.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NOx), carbon oxides (COx). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on the product as supplied:

Acute oral toxicity:	LD50/oral/rat > 5000 mg/kg
Acute dermal toxicity:	LD50/dermal/rat > 5000 mg/kg
Acute inhalation toxicity:	The producti s not expected to be toxic by inhalation.
Skin corrosion/irritation:	Noti rritating.
Serious eye damage/eye irritation:	Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjuctival effects similar to those which all granular materials have on conjuctivae.
Respiratory/skin sensitisation:	The results of testing on guinea pigs showed this material to be non-sensitizing.
Mutagenicity:	Notm utagenic.
Carcinogenicity:	Notc arcinogenic.
Reproductive toxicity:	Nott oxic for reproduction.
STOT - single exposure:	No known effects.
STOT-repeated exposure:	No known effect.
Aspiration hazard:	No hazards resulting from the material as supplied.

Relevant information on the hazardous components:

Adipic acid

Acute oral toxicity:	LD50/oral/rat > 2000 mg/kg
Acute dermal toxicity:	LD50/dermal/rabbit > 2000 mg/kg
Acute inhalation toxicity:	LC0/inhalation/4 hours/rat > 7.7 mg/L
Skin corrosion/irritation:	Slightly irritating.
Serious eye damage/eye irritation:	Not irritating. (OECD 405) (SNF)
Respiratory/skin sensitisation:	Not sensitizing.
Mutagenicity:	Negative in the In vitro Mammalian Cell Gene Mutation Test (OECD 476).
Carcinogenicity:	Not carcinogenic.

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Reproductive toxicity:	Not toxic for reproduction.
STOT - single exposure:	No known effects.
STOT-repeated exposure:	No known effect.
Aspiration hazard:	No known effects.

Sulfamic acid

Acute oral toxicity:	LD50/oral/rat > 2000 mg/kg
Acute dermal toxicity:	NOAEL/dermal/rat = 2000 mg/kg (OECD 402)
Acute inhalation toxicity:	The product is not expected to be toxic by inhalation.
Skin corrosion/irritation:	Not irritating. (OECD 404) (SNF)
Serious eye damage/eye irritation:	Moderately irritating to the eyes. (EPA OPPTS 870.2400)
Respiratory/skin sensitisation:	The product is not expected to be sensitizing.
Mutagenicity:	Negative in the Ames Test (OECD 471) Negative in the In vitro Mammalian Cell Gene Mutation Test (OECD 476). Not mutagenic. (OECD 472, 487)
Carcinogenicity:	Based on the absence of mutagenicity, it is unlikely that the substance is carcinogenic.
Reproductive toxicity:	No data available.
STOT - single exposure:	No known effects.
STOT-repeated exposure:	No known effect.
Aspiration hazard:	No known effects.

SECTION 12: Ecological information

12.1. Toxicity

Information on the product as supplied:

Acute toxicity to fish:	LC50/Danio rerio/96 hours = 5 - 10 mg/L (OECD 203)
Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hours = 20 - 50 mg/L. (OECD 202)

Acute toxicity to algae:	Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.
Chronic toxicity to fish:	No data available.
Chronic toxicity to invertebrates:	No data available.
Toxicity to microorganisms:	No data available.
Effects on terrestrial organisms:	No data available. Readily biodegradable, exposure to soil is unlikely.
Sediment toxicity:	No data available. Readily biodegradable, exposure to sediment is unlikely.

Relevant information on the hazardous components:

Adipic acid

Acute toxicity to fish:	LC0/Danio rerio/96 hours >= 1000 mg/L
Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hours = 46 mg/L. (OECD 202)
Acute toxicity to algae:	IC50/Selenastrum capricornutum/72 hours = 59 mg/L (OECD 201)
Chronic toxicity to fish:	No data available.
Chronic toxicity to invertebrates:	NOEC/Daphnia magna/21 days = 6.3 mg/L (OECD 211)
Toxicity to microorganisms:	EC50/activated sludge/3 hours = 4747 mg/L (OECD 209)
Effects on terrestrial organisms:	No data available.
Sediment toxicity:	No data available.

Sulfamic acid

Acute toxicity to fish:	LC50/Pimephales promelas/96 hours = 70.3 mg/L (OECD 203)
Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hours = 71.6 mg/L. (OECD 202)
Acute toxicity to algae:	IC50/Scenedesmus subspicatus/72 hours = 48 mg/L (OECD 201)
Chronic toxicity to fish:	No data available.
Chronic toxicity to invertebrates:	No data available.

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Toxicity to microorganisms: EC50/activated sludge/3 hours > 200 mg/L (OECD 209)

Effects on terrestrial organisms: No data available.

Sediment toxicity: No data available.

12.2. Persistence and degradability

Information on the product as supplied:

Degradation: Readily biodegradable.

Hydrolysis: At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.

Photolysis: No data available.

Relevant information on the hazardous components:

Adipic acid

Degradation: Readily biodegradable. > 70% / 28 days (OECD 301 D)

Hydrolysis: Does not hydrolyse.

Photolysis: Half-life (indirect photolysis): = 2.9 days

Sulfamic acid

Degradation: Not relevant (inorganic).

Hydrolysis: Does not hydrolyse.

Photolysis: No data available.

12.3. Bioaccumulative potential

Information on the product as supplied:

The product is not expected to bioaccumulate.

Partition co-efficient (Log Pow): < 0

Bioconcentration factor (BCF): No data available.

Relevant information on the hazardous components:

Adipic acid

Partition co-efficient (Log Pow): 0.093 @ 25°C, pH 3.3

Bioconcentration factor (BCF): No data available.

Sulfamic acid

Partition co-efficient (Log Pow): -4.34 @ 20°C

Bioconcentration factor (BCF): No data available.

12.4. Mobility in soil

Information on the product as supplied:

No data available.

Relevant information on the hazardous components:

Adipic acid

Koc: No data available.

Sulfamic acid

Koc: No data available.

12.5. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products:

Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging:

Rinse empty containers with water and use the rinse-water to prepare the working solution. If recycling is not practicable, dispose of in compliance with local regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Recycling:

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In accordance with local and national regulations.

SECTION 14: Transport information

Land transport (DOT)

Not classified.

Sea transport (IMDG)

Not classified.

Air transport (IATA)

Not classified.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Information on the product as supplied:

TSCA Chemical Substances Inventory:

All components of this product are either listed on the inventory or are exempt from listing.

US SARA Reporting Requirements:

SARA (Section 311/312) hazard class:
Not concerned.

SARA Title III Sections:

Section 302 (TPQ) - Reportable Quantity:
Not concerned.

Section 304 - Reportable Quantity:
Not concerned.

Section 313 (De minimis concentration):
Not concerned.

Clean Water Act

Section 311 Hazardous Substances (40 CFR 117.3) - Reportable Quantity:
Contains one or more of the listed substances.

Clean Air Act

Section 112(r) Accidental release prevention requirements (40 CFR 68) - Reportable Quantity:
Not concerned.

CERCLA

Hazardous Substances List (40 CFR 302.4) - Reportable Quantity:
Contains one or more of the listed substances.

RCRA status :

Not RCRA hazardous.

California Proposition 65 Information:

WARNING! This product contains a chemical known to the State of California to cause cancera nd birth defects or other reproductive harm, Acrylamide

Relevant information on the hazardous components:

Adipic acid

Clean Water Act
Section 311 Hazardous Substances (40 CFR 117.3) - Reportable Quantity: 5000 lbs

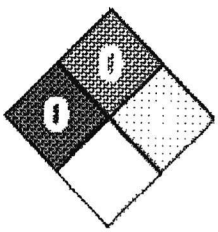
CERCLA
Hazardous Substances List (40 CFR 302.4) - Reportable Quantity: 5000 lbs

SECTION 16: Other information

NFPA and HMIS Ratings:

NFPA:

Health:	0
Flammability:	0
Instability:	0



HMIS:

Health:	0
Flammability:	0
Physical Hazard:	0

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PPE Code: B

This data sheet contains changes from the previous version in section(s):

SECTION 13. Disposal considerations, SECTION 16. Other Information.

Key or legend to abbreviations and acronyms used in the safety data sheet:

Abbreviations
Eye Irrit. 2A = Serious eye damage/eye irritation Category Code 2A
Skin Irrit. 2 = Skin corrosion/irritation Category Code 2

H-Phrases
H315 - Causes skin irritation
H319 - Causes serious eye irritation

This SDS was prepared in accordance with the following:

U.S. Code of Federal Regulations 29 CFR 1910.1200

Version: 17.01.a

PRCC003

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and beliefa t the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Soda Ash / Sodium Carbonate

Revision Date: 5/30/2019

SAFETY DATA SHEET

1 PRODUCT AND COMPANY IDENTIFICATION

1.1 PRODUCT IDENTIFIERS

Product Name:	Soda Ash or Sodium Carbonate
Chemical Name:	Sodium Carbonate
Synonyms / Common Names:	Carbonic Acid Sodium Salt
Registration Number REACH:	01-2119485498-19-0019
Product Type REACH:	Substance/mono-constituent
CAS Number:	497-19-8
EC Index Number:	011-005-00-2
EC Number:	207-838-8
RTECS Number:	VZ4050000

1.2 RELEVANT IDENTIFIED USES

Glass Production	Paper Production	Manufacture of Substances
Detergent Component	Laboratory Chemicals	Acidity Regulator

1.3 MANUFACTURER

Ciner Wyoming LLC
254 County Road 4-6
Green River, Wyoming 82935
United States
Telephone Number: (307) 875-2600
www.ciner.us.com

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Response Information Provider: CHEMTREC
Within the United States Emergency Telephone Number: 1-800-424-9300
Outside the United States / International Emergency Telephone Number: +1-703-527-3887

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2 HAZARD(S) IDENTIIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS Classification in accordance with 29 CFR 1910 (OSHA HazCom Standard):
Eye Irritation (Category 2A), H319
For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Pictograms:

Irritant

Signal Word: Warning

Hazard Statement(s):
H319 Causes serious eye irritation.

Precautionary Statement(s):
P264 Wash skin thoroughly after handling.
P280 Wear eye protection / face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice / attention.

2.3 HAZARDS NOT OTHERWISE CLASSIFIED OR NOT COVERED BY GHS

None

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Synonyms: Soda Ash, Sodium Carbonate, Carbonic Acid Sodium Salt
Formula: Na_2CO_3
Molecular Weight: 105.99 g/mol

Component (REACH Registration)	CAS #	Concentration	Classifications	Remark
Sodium Carbonate (01-2119485498-19-0019)	CAS #: 497-19-8	≥ 99%	Eye Irrit. 2A, H319	Monoconstituent

* For the full text of the H-Statements mentioned in this Section, see Section 16.

4 FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES

General - Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation - Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

After skin contact - Rinse with water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

After eye contact - Rinse immediately with plenty of water for at least 15 minutes. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion - Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if victim is unwell.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

4.2.1 Acute Symptoms

If inhaled - Dry/sore throat. Coughing. Slight irritation. Exposure to high concentrations: Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Respiratory difficulties.

In case of skin contact - Not irritating

In case of eye contact - Inflammation/damage of the eye tissue. Corrosion of the eye tissue. Lacrimation.

If swallowed – After absorption of high quantities: Nausea. Vomiting. Abdominal pain. Irritation of the gastric/intestinal mucosa.

4.2.2 Delayed Symptoms

No effects known.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No data available.

5 FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Upon combustion CO and CO2 are formed. Reacts on exposure to water with some metals. CO2 generation occurs when mixed with acidic materials.

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5.3 ADVICE FOR FIREFIGHTERS

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Gloves. Safety glasses. Protective clothing. Dust cloud protection and heat/fire exposure: Compressed air respirator.

6 ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 ENVIRONMENTAL PRECAUTIONS

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray. Violent exothermic reaction with some acids; release of harmful gases/vapors (carbon dioxide). Carbon dioxide is heavier than air and will collect in ducts, drains and low- lying areas. Prevent spreading in sewers.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Prevent dust cloud formation. Scoop solid spill material into closed containers. Carefully collect the spill. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

6.4 REFERENCE TO OTHER SECTIONS

For disposal see section 13.

7 HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Use air conveying/mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment if release of airborne dust is expected.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in original container. Keep in properly labeled containers. Keep container tightly closed.

7.3. SUITABLE PACKAGING MATERIAL

No data available.

7.4 INCOMPATIBLE PRODUCTS

Aluminum, powdered aluminum, and acids.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

Contains no substances with occupational exposure limit values.

8.2 EXPOSURE CONTROLS

Appropriate engineering controls – Avoid formation of dust. Keep away from ignition sources. Keep container tightly closed. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 PERSONAL PROTECTIVE EQUIPMENT

Eye / Face Protection - Safety glasses with side shields or protective goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin Protection - Handle with gloves, butyl rubber or PVC, which have good resistance. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection – Protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection – For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.4 CONTROL OF ENVIRONMENTAL EXPOSURE

Prevent leakage or spillage if safe to do so. Do not let product enter drains. See section 6.2, 6.3, and 13.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form:	Crystalline Solid / Crystalline Powder / Grains / Lumps
Color:	Colorless
Odor:	Odorless
Odor Threshold:	No data available
Particle Size:	694 µm
pH:	11.6; 5.0%
Melting Point / Freezing Point:	851°C / 1,564°F
Boiling Point:	1,600°C / 2,912°F
Flash Point:	No data available
Explosion Limits:	No data available
Evaporation Rate:	No data available

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Flammability:	Non-Combustible
Log Kow:	-6.19 Estimated Value
Viscosity:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Solubility Water:	212.5 g/l; 20°C / 68°F
Relative Density:	2.52 – 2.53; 20°C / 68°F
Absolute Density:	2,530 kg/m^3
Decomposition Temperature:	>1600°C / >2912°F
Auto-Ignition Temperature:	>400°C / >752°F
Explosive Properties:	No data available
Oxidizing Properties:	No data available

9.2 PHYSICAL HAZARDS
No data available

10 STABILITY AND REACTIVITY

10.1 REACTIVITY
None under normal use conditions.

10.2 CHEMICAL STABILITY
Stable. Decomposes by reaction with strong acid.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS
None under normal processing.

10.4 CONDITIONS TO AVOID
Exposure to air or moisture over prolonged periods.

10.5 INCOMPATIBLE MATERIALS
Aluminum, powdered aluminum, and acids.

10.6 HAZARDOUS POLYMERIZATION
Hazardous polymerization does not occur.

11 TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

11.1.1 Acute toxicity
LD50 Oral - rat – 2,800 mg/kg
LD50 Dermal – rabbit >2,000 mg/kg
LD50 Inhalation - rat – 2.30 mg/l, 2-hour exposure time

11.1.2 Corrosion/irritation
Skin - rabbit
Result: Mild skin irritation – 24 hours

11.1.3 Serious eye damage/eye irritation
Eyes - rabbit
Result: Severe eye irritation – 24 hours

11.1.4 Respiratory or skin sensitization
Inhalation - no data available
Skin Sensitization: no data available

11.1.5 Germ cell mutagenicity
No data available

11.1.6 Carcinogenicity
No data available

11.1.7 Reproductive toxicity
No data available

11.1.8 Specific target organ toxicity - single exposure
No data available

11.1.9 Specific target organ toxicity - repeated exposure
No data available

11.1.10 Chronic effects from short and long-term exposure

On continuous / repeated exposure / contact: Red skin. Dry skin. Tingling / irritation of the skin. Affection of the nasal septum.

12 ECOLOGOCAL INFORMATION

12.1 TOXICITY

	Parameter	Method	Value	Duration	Species	Test Design	Fresh/Salt Water	Value Determination
Acute toxicity fishes	LC50 Other	Other	300 mg/l	96 h	Lepomis macronhirus	Static system	Fresh water	Experimental value
Acute toxicity invertebrates	EC50	Other	200-227 mg/l	48 h	Ceriodaphnia sp.	Semi-static	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50		242 mg/l	5 days	Algae			Experimental value

12.2 PERSISTENCE AND DEGRADABILITY:
Biodegradability: not applicable

12.3 BIOACCUMULATIVE POTENTIAL:
Low potential for bioaccumulation (Log Kow <4)

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12.4 MOBILITY IN SOIL:
Low potential for absorption in soil.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT:
PBT/vPvB assessment not available as chemical safety assessment is not required/not conducted.

12.6 OTHER ADVERSE EFFECTS:
No data available

13 DISPOSAL CONSIDERATIONS

13.1 WASTE DISPOSAL
Remove waste in accordance with local and/or national regulations. Contact a licensed professional waste disposal service to dispose of this material. Different types of hazardous waste should not be mixed together if it will entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. Do not discharge into drains.

14 TRANSPORT INFORMATION

14.1 UNITED STATES DEPARTMENT OF TRANSPORTATION (DOT)
Non-regulated

14.2 INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)
Non-regulated

14.3 INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)
Non-regulated

14.4 TDG/ADN/RID/ADR
Non-regulated

15 REGULATORY INFORMATION

15.1 SARA 302 COMPONENTS
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

15.2 SARA 313 COMPONENTS
SARA 313: This material does not contain any chemical with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.3 SARA 311/312 HAZARDS
Acute Health Hazard

15.4 PENNSYLVANIA RIGHT TO KNOW COMPONENTS
Sodium carbonate, CAS-No: 497-19-8

15.5 NEW JERSEY RIGHT TO KNOW COMPONENTS
Sodium carbonate, CAS-No: 497-19-8

15.6 WHMIS CLASSIFICATION: C, D2
Note: The product listed on this SDS has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations.

15.7 US CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65)
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16 OTHER INFORMATION

16.1 FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTION 2 AND 3.

Eye Irrit.	Eye Irritation
H319	Causes serious eye irritation

16.2 HMIS RATING

Health Hazard:	2
Flammability:	0
Physical Hazard:	0

16.3 NFPA RATING

Health Hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

16.4 NOTICE
The above information is believed to be correct but is not intended to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Ciner and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

16.5 PRODUCT CERTIFICATIONS
This product is certified to NSF/ANSI Standard 60 for use in drinking water treatment at the specified maximum use limit. The MUL (maximum use level) for sodium carbonate anhydrous is 100 mg/L under NSF/ANSI Standard 60.

OU Kosher Certification

CERTIFIED HALAL حلال ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA

NSF Certified to NSF/ANSI 60

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Attachment 12

Section G: Operation and Management

Analytical Procedures

Clean Water. Quality Life. ™
846 Forest Road Vail, Colorado 81657 Tel (970) 476-7480 Fax (970) 476-4089 erwsd.org

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Attachment 12: Wastewater Analytical Methods and Laboratories

Wastewater Effluent		
Analyte/Test	**Method**	**Location of Analysis**
BOD	SM 5210B	ERWSD- Laboratory
pH	SM 4500 H +B	ERWSD- Vail
Alkalinity	SM 2320B	ERWSD- Laboratory
E. coli MPN	SM 9223- Colilert	ERWSD- Laboratory
Nonylphenol	ASTM D7065-06	Energy Laboratories
Ammonia (NH3 as N)	SM 4500-NH3H	ERWSD- Laboratory
Total Dissolved Solids	SM 2540C	ERWSD- Laboratory
Total Suspended Solids	SM 2540D	ERWSD- Laboratory
Volatile Suspended Solids	SM 2540G	ERWSD- Laboratory
WET, acute	M 2002.0 and M 2000.0	Seacrest Group
WET, chronic	M 1002.0 and M 1000.0	Seacrest Group
Chromium, HEX	SM 3500-C	Colorado Analytical
Copper, Potentially Dissolved (PD)	EPA 200.8	Colorado Analytical
Lead, PD	EPA 200.8	Colorado Analytical
Mercury, Total	M 1631	ACZ Laboratories
Silver, PD	E200.8	Colorado Analytical
Cyanide, WAD	ASTM 2036-81C	Colorado Analytical
Iron, Dissolved	SM 3111-B	Colorado Analytical
Iron, Total Recoverable (TR)	SM 3111-B	Colorado Analytical
Manganese, Dissolved	EPA 200.8	Colorado Analytical
Arsenic, TR	EPA 200.8	Energy Laboratories
Cadmium, PD	EPA 200.8	Colorado Analytical
Zinc, PD	EPA 200.8	Colorado Analytical
Annual Metals	EPA 200.7 and 200.8	Colorado Analytical
Nitrate + Nitrite	SM 4500-NO3I	ERWSD- Laboratory
Total Nitrogen	SM 4500-NO3F	ERWSD- Laboratory
Total Phosphorus	SM 4500-P H	ERWSD- Laboratory
Sulfate	EPA 300.0	Colorado Analytical
Sulfide	SM 4500-S2-G	Colorado Analytical
Chloride	EPA 300.0	Colorado Analytical
Phenolics, Total	EPA 420.2	Colorado Analytical

Wastewater Influent		
Analyte/Test	**Method**	**Location of Analysis**
BOD	SM 5210B	ERWSD- Laboratory
Total Dissolved Solids	SM2540C	ERWSD- Laboratory
Total Suspended Solids	SM2540D	ERWSD- Laboratory

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Attachment 13

Section H: Biosolids Handling

Biosolids Narrative

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Attachment 13: Edwards WWTF Biosolids Handling

Edwards WWTF Contingency plan:

The Edwards WWTF has truck load-out capabilities at their primary pump station and at the ATAD (auto-thermal thermophilic aerobic digestion) building. If needed, operators can transport liquid to Eagle River Water and Sanitation District (ERWSD) owned Biosolids Containment Facility (BCF) to air dry using the mechanical mixer. In addition, during an emergency, operators can rent portable dewatering equipment that can hook on adjacent to ATAD building.

Edwards WWTF Biosolids Handling and Final Disposal Methods:

ERWSD operates a 2nd generation ATAD system at the Edwards WWTF, which consists of five ATAD reactors and two SNDR (storage nitrification/denitrification reactor). This system provides a Class A biosolids.

Solids are fed to the system from one or two gravity thickeners that thicken primary sludge and from mechanical drum thickeners that thicken WAS (waste activated sludge). Two to five ATAD reactors run in parallel feed mode, depending on loading. This allows for isolation of each reactor for 24 hours. From these reactors we feed to SNDR, which cools sludge and removes most of the ammonia. Dewatering is done from SNDR thru two centrifuges to about 25% dry solids.

Dry cake is then trucked to the BCF. The solids are further dried to 75-85%. The solids are sampled at the BCF before it goes to end users (homeowners, landscapers, construction, etc.)

Edwards WW takes all of the solids generated at both of the Districts' other WWTF facilities (Vail and Avon). All of the solids are transported to Edwards WW via the sanitary sewer system as either primary solids or secondary waste solids. All of the District's solids are then digested at Edwards WW ATAD system.

Each year a completed biosolids report is sent to CDPHE and EPA.

Final disposal of grit and screenings occurs by dropping from the headworks into a dumpster that is inside the building. A contract hauler removes grit and screenings three times per week and hauls them to the BCF. At the BCF, the biosolids are mixed with wood chips and dried further. Finally, we haul them to the landfill, which is adjacent to our biosolids containment facility.

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EAGLE RIVER
WATER & SANITATION
DISTRICT

Received
SEP 30 2019
Water Quality Control

September 27, 2019

Jon Wallace, P.E., Environmental Protection Specialist, Water Quality Control Division
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80246-1530

RE: Eagle River Water & Sanitation District
Edwards Wastewater Treatment Facility CDPS Permit Renewal, No. CO-0037311

Dear Jon,

Attached please find the Eagle River Water and Sanitation District's (District) CDPS Wastewater Treatment Facility Permit Application for renewal of the Edwards Wastewater Treatment Facility (WWTF) discharge permit No. CO-0037311. Data are provided in excel format on a CD accompanying the application.

The District owns and operates 3 WWTFs. The Vail WWTF discharges to the mainstem of Gore Creek (Segment 8), which is a tributary of the Eagle River, and the Avon and Edwards WWTFs discharge to the mainstem of the Eagle River (Segment 9a). The District's WWTFs are operated as an integrated system that serves up to 60,000 residents and visitors. As regulatory requirements become increasingly stringent, the District continues to investigate, leverage, and implement integrated WWTF system opportunities to achieve cost-effective compliance that is sustainable and minimizes adverse impacts to its customers.

Since the last permit renewal in 2010, the District has completed the following projects at the Edwards WWTF:

- Nutrient treatment upgrades. In 2013, the District upgraded the Edwards and Avon WWTFs conventional activated sludge secondary treatment processes to the Modified Ludzack-Ettinger process to reduce effluent TIN concentrations. The upgrades resulted in significant reductions of TIN loading from both facilities. As with the Avon WWTF, upgrades to the Edwards WWTF were voluntary. The District has been very proactive in its planning efforts toward meeting nutrient regulations, which are not currently required by the either WWTF discharge permit.

- Consolidated treatment of wastewater solids from all 3 WWTFs at the Edwards WWTF. Completed in 2016, benefits of this project include reduction of capital expenditures and

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operation and maintenance life cycle costs for solids handling; centralization of nutrient-rich recycle stream management; and freeing up of treatment space at the Avon WWTF for future liquid stream improvements.

- Regulation 22 Site Location Approval No. 4365 [ES.12.45217]. On December 30, 2013, the Division granted the Edwards WWTF approval to proceed with upgrades and improvements associated with consolidation of solids treatment for all three District WWTFs at the Edwards facility. The approval also allowed for an increase of the Edwards WWTF loading capacity (to 15,100 lbs. BOD5 / day) and hydraulic capacity (2.83 million gallons per day (MGD) Maximum Month Average Daily Flow and 5.7 MGD Peak flow Capacity).

  Several years ago, the District requested a permit modification to incorporate the re-rated organic loading and hydraulic capacities into the discharge permit. However, upon completion of the project, the facility's discharge permit was under administrative extension and according to Division policy, WWTF discharge permits cannot be modified while administratively extended. During this time, the District was working with the Division to address nutrient regulation requirements and associated discharge permit issues for its three WWTFs. Consequently, the District agreed to withdraw its permit modification request to allow time for the Division to renew and synchronize all the District's WWTF discharge permits.

  To this point, Edwards WWTF staff have been able to successfully operate the facility to meet the currently applicable capacity limits, but available operational approaches are becoming no longer effective. Absent incorporation of the approved capacity re-ratings, it is likely that exceedences of the limits will occur during the approaching 2019 winter ski tourism season. The District has invested significant resources and effort to both satisfy permit limits and to build trust with its customers. That trust is extremely important to the District and its Board of Directors, especially now, given the rate increases that would be required for an estimated $200 million of wastewater nutrient treatment improvements that may be needed at the three WWTFs. Given these circumstances, the District requests expedited incorporation of the 2013 approved re-rated capacities into the Edwards WWTF discharge permit to allow the facility to meet these limits during the 2019 winter season.

Additionally, and pursuant to our phone discussion with you earlier this year, information and issues the District has identified relevant to renewal of the Edwards WWTF discharge permit are summarized below. We appreciate the Division's consideration of these issues and requests.

1. **Assimilative capacity and modeling extent**

The multiple-discharge modeling approach used to develop effluent limits in 2010 for the Avon, Edwards, and Town of Eagle (Eagle) WWTFs required the District's facilities to bear a disproportionately greater burden to meet limits than the Eagle facility due to distance and increased flow between the facilities.

The Eagle WWTF, which is the closest permitted publicly owned treatment works to the Edwards WWTF, is located over 16 river miles downstream and in an entirely different subwatershed than the District's facilities. As a result, the Eagle WWTF discharge permit limits benefit from a significant increase in dilution flow that occurs between the Edwards and Eagle WWTFs. This benefit was not equitably accounted for when the three facilities were modeled together in 2010 as was evidenced in the majority of the 2010 effluent limits that were assigned to the facilities. To give an example, the chronic copper WQBEL calculated for the Eagle WWTF is more than 3 times higher at 260 µg/L than the Edwards WQBEL at 77 µg/L.

During our discussion, you mentioned that the Division plans to remove the Eagle WWTF from the assimilative capacity modeling for the Avon and Edwards WWTFs. The District agrees with this decision and also feels it is appropriate to model the Avon and Edwards WWTFs together for assimilative capacity and load-sharing purposes.

2. **Calculation of Eagle River streamflows above the Edwards WWTF discharge outfall**

During our review of the Avon and Edwards WWTF 2010 permit documents, we identified the need for an updated and refined method to reconstruct the Eagle River streamflows above the Edwards WWTF outfall. We believe that the method used in the 2010 water quality assessment[1] to derive average daily flow estimates for this location failed to include ungaged tributary inflows that accrue to the Eagle River within the 6.4 mile stream reach between the USGS streamflow gage below the Avon WWTF (USGS 09067020 EAGLE R BLW WASTEWATER TREATMENT PLANT AT AVON, CO) and the Edwards WWTF outfall. A memorandum summarizing the updated method - that we request be used in the permit renewal process, and data used to estimate average daily streamflows in the Eagle River above the Edwards outfall, are available on the CD provided with the attached application. Please feel to contact me

[1] Water Quality Assessment for the Eagle River: Eagle River Water and Sanitation District: Avon, Edwards WWTFs; Town of Eagle: Eagle WWTF; Town of Gypsum: Gypsum WWTF. Last Revised 12/14/KD; pages 13 & 14 of 63.

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or the District's consultant, Caroline Byus, Pinyon Environmental, Inc., with any questions or comments.

3. **Nutrient regulations and synchronization of discharge permit renewals for the District's 3 WWTFs**

In anticipation of meeting nutrient regulations at its three WWTFs, and after considerable study and planning, the District entered into an agreement with the Division as set forth in the Memorandum of Understanding (MOU) effective June 29, 2018. An Addendum to the MOU was executed by the District and Division dated January 17, 2018 (Addendum). The MOU and Addendum are attached for your convenience. The following agreements relative to the Edwards WWTF permit renewal are contained in the MOU and Addendum:

- The principal objective of the MOU was to allow the District to develop nutrient controls at its 3 WWTFs in the most logical stepwise fashion and establish the sequence and timing of improvements for that purpose;

- The MOU and Addendum provide that improvements and other actions at the Edwards WWTF will be implemented as needed to meet or exceed Regulation 85 limits by December 31, 2028, and before any nutrient control improvements are required to be initiated at the Vail WWTF;

- Consistent with the MOU, timing of the renewal of the District's three discharge permits will be synchronized; and

- The Addendum sets forth more specifically the agreed upon nutrient compliance schedule for each of the District's WWTF permits and the associated Fact Sheet language.

4. **Temperature effluent limits**

Based on our March 2019 discussion, the District understands that temperature permit limits will not be incorporated into the Vail, Avon, or Edwards WWTF discharge permits during this renewal cycle.

5. AMMTOX modeling

Given the AMMTOX model's flexibility for modeling multiple scenarios and based on our March 2019 conversation, the District requests the opportunity to work with the Division to evaluate and propose ammonia limits for the Avon and Edwards facilities that meet the current needs of the individual facilities. Allocation of ammonia discharges between the Avon and Edwards WWTFs is necessary and appropriate to address the shift in loading associated with consolidated solids handling of all three facilities at the Edwards facility.

The District recently completed AMMTOX modeling for the Avon and Edwards WWTFs as part of its master planning process. We also conducted a seepage analysis and incorporated the results into the AMMTOX model. When we talked, you mentioned that you would not need the District's AMMTOX model. If you decide that it would be helpful to your process, please let me know.

Thank you for the opportunity to discuss and request consideration of the above issues prior to permit renewal. We appreciate the Division's receptivity to open communication.

Please feel free to contact me if you have questions or need additional information.

Sincerely,

Caroline Byus
on behalf of

Siri Roman, P.E., Director of Operations
Eagle River Water and Sanitation District

Attachments: June 2018 ERWSD and WQCD MOU
January 2019 ERWSD and WQCD MOU Addendum

CC: Parker Newbanks, Edwards WWTF Supervisor
Caroline Byus, Pinyon Environmental, Inc.
Steve Bushong, Porzak Browning & Bushong LLP

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MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding ("MOU"), effective as of the date executed by both parties below, is between the Eagle River Water and Sanitation District, a quasi-municipal corporation and political subdivision of the State of Colorado ("District"), and the Water Quality Control Division of the Colorado Department of Public Health and Environment, an agency of the State of Colorado ("Division"). The District and Division are collectively referred to herein as the "Parties".

WHEREAS, the District operates three wastewater treatment facilities ("WWTFs"), one in the Town of Vail (the "Vail WWTF"), one in the Town of Avon ("Avon WWTF") and one in unincorporated Eagle County ("Edwards WWTF").

WHEREAS, the District operates its WWTFs pursuant to the following permits issued under the Colorado Discharge Permit System: Vail WWTF, Permit No. CO-0021369; Avon WWTF, Permit No. CO-0024431; and Edwards WWTF, Permit No. CO-0037311.

WHEREAS, the Water Quality Control Commission ("Commission") adopted Regulation 85 which includes the requirement that WWTFs meet specified reductions in nutrient concentrations in effluent before the Regulation 31 standards for nutrients is applied to discharge permits.

WHEREAS, in response to concerns raised by the District during the original adoption of Regulation 85, the Commission stated that it "intends that where multiple treatment facilities with a single operator are on the same permit renewal schedule, the Division will take that factor into account when developing the compliance schedule." Regulation 85, Statement of Basis and Purpose, § 85.5(VI) (2012).

WHEREAS, after considerable study and planning, including development of a Capital Improvement Plan with projects estimating a total cost of $105 million, the District has proposed phasing in capital improvements to help achieve nutrient reductions one WWTF at a time, and to do so in a manner that will maximize near-term environmental benefits in the watershed, maximize cost effectiveness, and remain consistent with the District's resources and its interconnected WWTFs.

WHEREAS, the Vail WWTF permit was renewed in 2015 and is currently the only District WWTF required to meet Regulation 85 limits, with a compliance schedule ending December 31, 2020.

WHEREAS, renewal of the Avon WWTF and Edwards WWTF discharge permits was administratively extended until the Division renews permits for the Avon WWTF (Permit No. CO-0024431) and Edwards WWTF (Permit No. CO-0037311) which is expected in 2018 or 2019, at which time they will receive Regulation 85 compliance schedules.

WHEREAS, the Parties agree there is little reason to upgrade the Vail WWTF first to meet Regulation 85 requirements before upgrading the other District WWTFs, because the Vail WWTF has the lowest rated capacity of the District's WWTFs, is largely in compliance with

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Regulation 85 on an annual median basis under current conditions, such Regulation 85 improvements cannot be cost efficiently modified in the future to achieve Regulation 31 given site constraints at the Vail WWTF, and other reasons supported by the District's analysis.

WHEREAS, the District desires to begin implementing capital improvements to meet or exceed Regulation 85 requirements at the largest of its WWTFs, the Avon WWTF, but requires assurances from the Division regarding the permitting of the Vail WWTF and Edwards WWTF, because the District does not have the resources to implement more than one project of this magnitude at a time.

WHEREAS, the Division desires to provide the District with the assurances needed to allow it to initiate the Avon WWTF project first.

WHEREAS, the Division agrees that given the detailed information provided to it by the District, and subject to the terms hereof, either staggered compliance schedules, trading, or similar regulatory relief is reasonable, appropriate, and consistent with applicable regulations and public policy, and will allow the District to stagger the implementation of capital improvements one WWTF at a time as described in this MOU, so that the District may first proceed with nutrient reductions at the Avon WWTF.

WHEREFORE, in consideration of the foregoing recitals, and the mutual promises and covenants contained herein, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Parties agree as follows:

1. Permit Renewal Schedule. The District submitted timely applications for renewal of the Avon WWTF and Edwards WWTF in 2016. The District also has a permit modification application pending for the Vail WWTF discharge permit to change the existing Regulation 85 compliance schedule. In order to synchronize permitting schedules among the District WWTFs, and in reliance upon this MOU, the District will withdraw its permit modification application for the Vail WWTF and instead submit an application in 2018 to renew the Vail WWTF permit so that all three discharge permits for its WWTFs are on the same permit renewal schedule, with renewals expected in 2018 or 2019.

2. Permitting of District WWTFs under Regulation 85 or Regulation 31. The Division agrees to allow the District to implement its Capital Improvement Plan to reduce nutrient concentrations at all three WWTFs in the sequence described below, because that sequence maximizes near-term environmental benefits in the watershed, maximizes cost effectiveness, and is consistent with the District's resources and its interconnected WWTFs. The Division also agrees that allowing the proposed capital improvements to be staggered over time in the manner set forth below is reasonable, appropriate, and consistent with applicable regulations and public policy. Although the precise formulation of the permits for the WWTFs still needs to be resolved, the Division hereby agrees to develop, in coordination with the District, a bubble permit or watershed permit for the three WWTFs, linked compliance schedules among the WWTFs, trading between the WWTFs or associated with other actions, monitoring/reporting requirements, and/or use such other regulatory mechanisms as will allow for the following sequence of capital improvements by the District:

a. Avon WWTF: The District will begin the process of implementing capital improvements at the Avon WWTF upon approval of this MOU, with the intent of completing said improvements and such other actions as needed to meet or exceed Regulation 85 nutrient regulatory limits by or before December 31, 2023.
b. Edwards WWTF: The District will begin the process of implementing capital improvements at the Edwards WWTF in 2024, with the intent of completing said improvements and such other actions as needed to meet or exceed applicable nutrient regulatory limits (expected to be Regulation 85) by December 31, 2028.
c. Vail WWTF: The District will begin the process of implementing capital improvements at the Vail WWTF in 2029, with the intent of completing said improvements and such other actions as needed to meet Regulation 31 limits by December 31, 2033.

The District agrees to implement the sequence of capital improvements set forth above, subject to all applicable regulations and policies, unless changes to any applicable law, regulation, or policy render the above schedules unlawful or moot. Both parties agree that if other changed circumstances render the above schedules unreasonable, the parties will endeavor in good faith to modify this MOU to address the changed circumstances in a mutually acceptable manner consistent with the intent hereof and, if that is not possible, either party may opt to terminate the obligations outlined under this MOU upon notification and agreement by the co-signing party.

It is the intent of the Parties that the foregoing sequence of capital improvements will be implemented in any future permit renewals for the District WWTFs. The District's intent as expressed above is to implement improvements at the Vail WWTF that will go beyond Regulation 85 and achieve Regulation 31 compliance. However, given the uncertainty in the Regulation 31 standards and other variables, this MOU is not intended to negate a discharger specific variance, trading, or other regulations if found to be applicable to the Vail WWTF.

3. Incentive Program. The Parties agree that this MOU provides a significant time extension for the Vail WWTF to meet Regulation 85 requirements. The expectation of the Parties is that improvements to the Vail WWTF are being designed to meet Regulation 31 limits (or a site-specific water quality standard, if appropriate). Any Incentive Program credits earned by the District are not eligible to apply to meeting the Regulation 31 limits at the Vail WWTF after 2027.

5. Initiation of Avon WWTF Improvements. In reliance upon this MOU, the District will dedicate its resources to first implementing improvements to the Avon WWTF at a currently estimated cost of $31,665,000, which includes biological nutrient removal to meet Regulation 85.

6. No Third-Party Beneficiaries. This MOU is entered into between the Parties for the express purposes set forth herein, and is not intended to, and shall not confer, rights to any other person or entity.

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7. No Precedent. The Parties do not intend for this MOU to be relied upon by any other person for any reason. This MOU does not create any expectation for future determinations in any other matter and does not create precedent in any other matter.

8. Entire Agreement. This MOU constitutes the understanding and agreement among the Parties and supersedes any prior understandings, agreements, or arrangements among the Parties relating to the subject matter hereof. Any amendment hereof must be in writing and signed by the Parties.

9. Invalidity or Unenforceability. The Parties enter into this MOU with the understanding and intent that it is valid and enforceable, and the District is expending funds in reliance upon that understanding. In the event any provision of this MOU is ever deemed invalid or unenforceable by a court of competent jurisdiction or agency with such authority, the Parties will endeavor in good faith to renegotiate such provision, or new provisions of the MOU, to best accomplish the intent hereof in a way that is valid and enforceable. If not able to do so in good faith, this MOU will no longer be in effect.

10 Legal Review. Both Parties were represented by legal counsel in the preparation and review of this MOU.

11. Authority. The Parties hereto represent and affirm the signatories to this MOU are legally authorized to bind the Parties.

EAGLE RIVER WATER AND SANITATION DISTRICT

Linn Brooks, General Manager

Date: 6.29.18

WATER QUALITY CONTROL DIVISION

Patrick Pfaltzgraff, Director, Water Quality Control Division

Date: 27 Jun 18

ADDENDUM TO MEMORANDUM OF UNDERSTANDING

The Water Quality Control Division ("Division") and the Eagle River Water and Sanitation District ("District") entered into a Memorandum of Agreement dated June 29, 2018 ("MOU") that addressed the permitting of the District's three WWTF's under Regulation 85 and Regulation 31 to allow the District to plan for and phase in nutrient treatment at all three WWTFs. Although the sequence and timing of capital improvements by the District was agreed upon in the MOU, the precise formulation the agreement would take in the upcoming renewal of the permits for the WWTFs was not resolved in the MOU.

The purpose of this Addendum to the MOU is to reflect agreed upon permit language for the District's WWTFs that is consistent with the MOU. In attachments hereto are separate compliance schedule provisions to be incorporated into each of the District's WWTF permits to address nutrients and language to be included in each WWTF permit Fact Sheet.

Except for the agreed upon permit compliance schedule language and Fact Sheet language this Addendum is not intended to modify any provision of the MOU.

EAGLE RIVER WATER AND SANITATION DISTRICT

Linn Brooks, General Manager

Date: 1.17.19

WATER QUALITY CONTROL DIVISION

Patrick Pfaltzgraff

Patrick Pfaltzgraff, Water Quality Control Division

Date: 17 Jan 19

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Attachment to Addendum to Memorandum of Understanding.

The final effluent limitation expressed in the Avon permit enforceable at the end of the compliance schedule will be the Regulation 85 limits for total inorganic nitrogen and phosphorus.

1. **Compliance Schedule for Avon WWTF Permit.**

   a. Activities to Meet Total Inorganic Nitrogen and Total Phosphorus. In order to meet or exceed Total Inorganic Nitrogen and Total Phosphorus effluent limits pursuant to Control Regulation 85, the following schedule is included in the permit.

Code	Event	Description	Due Date
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2019
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2020
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2021
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2022
	Complete Required Work or On-Site Construction	Complete construction of capital improvements or other appropriate	12/31/2023

		actions which will allow the permittee to meet or exceed Regulation 85 limitations.	

2. Compliance Schedule for Edwards WWTF Permit.

The final effluent limitation expressed in the Edwards permit enforceable at the end of the compliance schedule will be the Regulation 85 limits for total inorganic nitrogen and phosphorus.

a. Activities to Meet Total Inorganic Nitrogen and Total Phosphorus. In order to meet or exceed Total Inorganic Nitrogen and Total Phosphorus effluent limits pursuant to Control Regulation 85, the following schedule is included in the permit.

Code	Event	Description	Due Date
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2019
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2020
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2021
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing	12/31/2022

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		construction or other activities.	
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2023
	Plan, Report or Scope of Work	Begin design and engineering of Capital Improvements needed to meet or exceed Regulation 85 limitations and submit status report.	12/31/2024
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2025
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2026
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2027
	Complete Required Work or On-Site Construction	Complete construction of capital improvements or other appropriate actions which will allow the permittee to meet or exceed	12/31/2028

		Regulation 85 limitations.	

3. Compliance Schedule for Vail WWTF Permit.

The final effluent limitation expressed in the Vail permit enforceable at the end of the compliance schedule will be the Regulation 85 limits for total inorganic nitrogen and phosphorus. However, the permit fact sheet will state that the division anticipates that future renewal permits implementing the compliance schedule after 2027 will include a final enforceable effluent limit based on calculated permit limits for total inorganic nitrogen and phosphorus based on Regulation 31 standards.

a. Activities to Meet Total Inorganic Nitrogen and Total Phosphorus. In order to meet Total Inorganic Nitrogen and Total Phosphorus effluent limits that may be applicable under Regulation 31, the following schedule is included in the permit

Code	Event	Description	Due Date
	Monitoring Report	Submit a Gore Creek water quality update that includes, at a minimum, updated information on nutrient concentrations and macroinvertebrate sampling data in Gore Creek.	12/31/2020
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2021
	Monitoring Report	Submit a Gore Creek water quality update that includes, at a minimum, updated information on nutrient concentrations and macroinvertebrate sampling data in Gore Creek.	12/31/2022

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	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2023
	Monitoring Report	Submit a Gore Creek water quality update that includes, at a minimum, updated information on nutrient concentrations and macroinvertebrate sampling data in Gore Creek.	12/31/2024
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2025
	Monitoring Report	Submit a Gore Creek water quality update that includes, at a minimum, updated information on nutrient concentrations and macroinvertebrate sampling data in Gore Creek.	12/31/2026
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2027
	Monitoring Report	Submit a Gore Creek water quality update that includes, at a minimum, updated information on	12/31/2028

		nutrient concentrations and macroinvertebrate sampling data in Gore Creek.	
	Plan, Report or Scope of Work	Begin design and engineering of Capital Improvements needed to meet applicable effluent limits based upon Regulation 31 and submit status report.	12/31/2029
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2030
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2031
	Status/Progress Report	Submit a construction progress report summarizing the progress in initiating and completing construction or other activities.	12/31/2032
	Complete Required Work or On-Site Construction	Complete construction of capital improvements or other appropriate actions which will allow the permittee to meet applicable effluent limits based upon Regulation 31 standards anticipated for adoption in 2027.	12/31/2033

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4. Fact Sheet Language justifying compliance schedule terms for the Avon, Edwards and Vail WWTF Permits

As discussed in the Colorado WQCD Compliance Schedule Policy CW-3 and federal requirements, the division evaluates the need for compliance schedules for discharges that are not new on the basis of what is necessary, appropriate, and whether the compliance schedule will achieve compliance with the underlying water quality based effluent limit as soon as possible. The division has considered these factors on a cumulative bases for all three facilities operated by the permittee, specifically considering significant capital improvement upgrades for nutrients, timing and feasibility considerations, cumulative watershed loading reductions including non-point source reductions, and the overall health of the receiving streams. In this instance, the permittee agreed to begin implementing capital improvements for the Avon WWTF to meet or achieve Regulation 85 requirements before the Avon WWTF was issued a permit requiring compliance with Regulation 85. The permittee also agreed to immediately follow the Avon WWTF capital improvements with the planning and implementation of capital improvements at the Edwards WWTF to meet or achieve Regulation 85. Upon completion of the Edwards WWTF improvements, permittee will implement improvements at the Vail WWTF as may be necessary to meet expected effluent limitations required under Regulation 31. The Vail WWTF has the lowest rated capacity of the permittee's WWTF's and currently is largely in compliance with Regulation 85 on an annual median basis. The division has found that phasing in the improvements in this manner will, under the circumstances, maximize near-term environmental benefits in the watershed, utilize the permittee's available resources in an appropriate manner, and is consistent with state nutrient control regulation 85, permitting policies, applicable permitting regulations, and public policy. Further basis for this approach is reflected in the Memorandum of Understanding between the division and permittee dated June 29, 2018.

Necessary

The division evaluated the necessity of a permit compliance schedule for Total Inorganic Nitrogen and Total Phosphorus and determined that compliance schedules were necessary as the permittee cannot meet the applicable limitations in the permit upon the effective date. Regulation 85 limits are being applied for the first time to the Avon WWTF and Edwards WWTF and deadlines for infrastructure improvements for those facilities were placed ahead of the Vail WWTF to maximize nutrient reductions. Effluent limitations based upon Regulation 31 for Total Inorganic Nitrogen and Total Phosphorus will be applied for the first time to the Vail WWTF and, given the physical constraints of that location, this sequence of improvements will allow the permittee to conduct just one major infrastructure improvement project at the Vail WWTF to reduce nutrients as may be needed under Regulation 31.

Appropriate

In this case, the division has determined that the compliance schedule is appropriate. The permittee is embarking upon 15 years of capital improvement projects at three WWTFs at an estimated cost of $105 million to meet either Regulation 85 or Regulation 31 nutrient limits that are or will be applied for the first time. The permittee has satisfied not only the Compliance Schedule Policy CW-3 and federal requirements, but also the compliance schedule parameters set forth in Regulation 85.

As soon as possible
The division has evaluated the timelines for each parameter in the compliance schedule and has determined that the schedule will ensure compliance "as soon as possible" and is consistent with the applicable regulations and policies. This takes into account the fact that the permittee needs time to evaluate and implement improvements at three wastewater treatment facilities that are on the same permit renewal schedule. *Regulation 85, Statement of Basis and Purpose, § 85.5(VI).*

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Data for Calculation of Low Flows for Eagle River at the Edwards WWTF		
	USGS 09067020 Eagle River Below WWTP at Avon	
Agency	Site #	Date
USGS	9067020	10/1/2008
USGS	9067020	10/2/2008
USGS	9067020	10/3/2008
USGS	9067020	10/4/2008
USGS	9067020	10/5/2008
USGS	9067020	10/6/2008
USGS	9067020	10/7/2008
USGS	9067020	10/8/2008
USGS	9067020	10/9/2008
USGS	9067020	10/10/2008
USGS	9067020	10/11/2008
USGS	9067020	10/12/2008
USGS	9067020	10/13/2008
USGS	9067020	10/14/2008
USGS	9067020	10/15/2008
USGS	9067020	10/16/2008
USGS	9067020	10/17/2008
USGS	9067020	10/18/2008
USGS	9067020	10/19/2008
USGS	9067020	10/20/2008
USGS	9067020	10/21/2008
USGS	9067020	10/22/2008
USGS	9067020	10/23/2008
USGS	9067020	10/24/2008
USGS	9067020	10/25/2008
USGS	9067020	10/26/2008
USGS	9067020	10/27/2008
USGS	9067020	10/28/2008
USGS	9067020	10/29/2008
USGS	9067020	10/30/2008
USGS	9067020	10/31/2008
USGS	9067020	11/1/2008
USGS	9067020	11/2/2008
USGS	9067020	11/3/2008
USGS	9067020	11/4/2008
USGS	9067020	11/5/2008
USGS	9067020	11/6/2008
USGS	9067020	11/7/2008
USGS	9067020	11/8/2008
USGS	9067020	11/9/2008
USGS	9067020	11/10/2008
USGS	9067020	11/11/2008

USGS	9067020	11/12/2008
USGS	9067020	11/13/2008
USGS	9067020	11/14/2008
USGS	9067020	11/15/2008
USGS	9067020	11/16/2008
USGS	9067020	11/17/2008
USGS	9067020	11/18/2008
USGS	9067020	11/19/2008
USGS	9067020	11/20/2008
USGS	9067020	11/21/2008
USGS	9067020	11/22/2008
USGS	9067020	11/23/2008
USGS	9067020	11/24/2008
USGS	9067020	11/25/2008
USGS	9067020	11/26/2008
USGS	9067020	11/27/2008
USGS	9067020	11/28/2008
USGS	9067020	11/29/2008
USGS	9067020	11/30/2008
USGS	9067020	12/1/2008
USGS	9067020	12/2/2008
USGS	9067020	12/3/2008
USGS	9067020	12/4/2008
USGS	9067020	12/5/2008
USGS	9067020	12/6/2008
USGS	9067020	12/7/2008
USGS	9067020	12/8/2008
USGS	9067020	12/9/2008
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USGS	9067020	7/11/2018
USGS	9067020	7/12/2018
USGS	9067020	7/13/2018
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USGS	9067020	7/16/2018
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USGS	9067020	8/3/2018
USGS	9067020	8/4/2018
USGS	9067020	8/5/2018
USGS	9067020	8/6/2018
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USGS	9067020	8/8/2018
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USGS	9067020	8/19/2018
USGS	9067020	8/20/2018
USGS	9067020	8/21/2018
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USGS	9067020	8/24/2018
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USGS	9067020	8/26/2018
USGS	9067020	8/27/2018
USGS	9067020	8/28/2018
USGS	9067020	8/29/2018
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USGS	9067020	9/24/2018
USGS	9067020	9/25/2018
USGS	9067020	9/26/2018
USGS	9067020	9/27/2018
USGS	9067020	9/28/2018
USGS	9067020	9/29/2018
USGS	9067020	9/30/2018

			USGS 09067200 Lake Creek near Edwards, CO			
Avg Daily Streamflow (CFS)	Qual Code		Agency	Site #	Date	Avg Daily Streamflow (CFS)
93.1	A		USGS	9067200	10/1/2008	20.2
92.7	A		USGS	9067200	10/2/2008	19.6
97.3	A		USGS	9067200	10/3/2008	20.3
99.9	A		USGS	9067200	10/4/2008	20.7
104	A		USGS	9067200	10/5/2008	21
109	A		USGS	9067200	10/6/2008	23.7
105	A		USGS	9067200	10/7/2008	23.9
97.4	A		USGS	9067200	10/8/2008	23.9
94.3	A		USGS	9067200	10/9/2008	22.7
93.8	A		USGS	9067200	10/10/2008	21.6
95.8	A		USGS	9067200	10/11/2008	20.3
112	A		USGS	9067200	10/12/2008	22.2
99.8	A		USGS	9067200	10/13/2008	20.5
96.4	A		USGS	9067200	10/14/2008	20.9
95.8	A		USGS	9067200	10/15/2008	21.2
93.8	A		USGS	9067200	10/16/2008	21.4
97.8	A		USGS	9067200	10/17/2008	21.3
100	A		USGS	9067200	10/18/2008	19.9
95.8	A		USGS	9067200	10/19/2008	19.6
95.3	A		USGS	9067200	10/20/2008	20.3
104	A		USGS	9067200	10/21/2008	21.5
106	A		USGS	9067200	10/22/2008	20.8
89.8	A		USGS	9067200	10/23/2008	19.7
106	A		USGS	9067200	10/24/2008	20
108	A		USGS	9067200	10/25/2008	19.9
106	A		USGS	9067200	10/26/2008	20.2
95.7	A		USGS	9067200	10/27/2008	19.4
96.1	A		USGS	9067200	10/28/2008	19.6
96.8	A		USGS	9067200	10/29/2008	19.8
96.4	A		USGS	9067200	10/30/2008	21
95	A		USGS	9067200	10/31/2008	19.8
97	A		USGS	9067200	11/1/2008	17.8
97.1	A		USGS	9067200	11/2/2008	17.6
107	A		USGS	9067200	11/3/2008	19.8
103	A		USGS	9067200	11/4/2008	19.9
98.9	A		USGS	9067200	11/5/2008	20
75.3	A		USGS	9067200	11/6/2008	17.6
65.5	A		USGS	9067200	11/7/2008	17.4
98.8	A		USGS	9067200	11/8/2008	19.8
94.3	A		USGS	9067200	11/9/2008	19.8
95.6	A		USGS	9067200	11/10/2008	19.5
93.2	A		USGS	9067200	11/11/2008	20

91.2	A		USGS	9067200	11/12/2008	19.6
95.8	A		USGS	9067200	11/13/2008	19.5
93.4	A		USGS	9067200	11/14/2008	19.2
62.9	A		USGS	9067200	11/15/2008	16.1
85.1	A		USGS	9067200	11/16/2008	18.3
90.7	A		USGS	9067200	11/17/2008	18.2
90.9	A		USGS	9067200	11/18/2008	17.7
86.5	A		USGS	9067200	11/19/2008	17.2
84.5	A		USGS	9067200	11/20/2008	17.1
81.9	A		USGS	9067200	11/21/2008	17
74.6	A		USGS	9067200	11/22/2008	16
76.2	A		USGS	9067200	11/23/2008	15.9
68.1	A		USGS	9067200	11/24/2008	13.6
64.7	A		USGS	9067200	11/25/2008	14.4
69	A		USGS	9067200	11/26/2008	15.2
82.3	A		USGS	9067200	11/27/2008	16.1
85.1	A		USGS	9067200	11/28/2008	16.1
83.5	A		USGS	9067200	11/29/2008	15.7
85.2	A		USGS	9067200	11/30/2008	16.1
81.4	A		USGS	9067200	12/1/2008	16.1
83.3	A		USGS	9067200	12/2/2008	16.1
84.6	A		USGS	9067200	12/3/2008	16.1
82.5	A		USGS	9067200	12/4/2008	16.3
78	A		USGS	9067200	12/5/2008	14.9
80.6	A		USGS	9067200	12/6/2008	16.1
80.8	A		USGS	9067200	12/7/2008	15.1
80.1	A		USGS	9067200	12/8/2008	14.6
75.7	A		USGS	9067200	12/9/2008	13.9
59.2	A		USGS	9067200	12/10/2008	12.3
66.2	A		USGS	9067200	12/11/2008	13.6
71.8	A		USGS	9067200	12/12/2008	13.9
83.9	A		USGS	9067200	12/13/2008	14.3
76.5	A		USGS	9067200	12/14/2008	13.4
55.1	A		USGS	9067200	12/15/2008	12.8
75.1	A		USGS	9067200	12/16/2008	16.5
76.7	A		USGS	9067200	12/17/2008	16.7
78.1	A		USGS	9067200	12/18/2008	16
77.2	A		USGS	9067200	12/19/2008	15.4
69.2	A		USGS	9067200	12/20/2008	14.6
70.9	A		USGS	9067200	12/21/2008	15.1
78.6	A		USGS	9067200	12/22/2008	15.4
79.4	A		USGS	9067200	12/23/2008	15.3
73	A		USGS	9067200	12/24/2008	15
84.1	A		USGS	9067200	12/25/2008	15.4
81.9	A		USGS	9067200	12/26/2008	15.2
71.1	A		USGS	9067200	12/27/2008	13.4
75.5	A		USGS	9067200	12/28/2008	15.4

72.7	A		USGS	9067200	12/29/2008	14.6
71.7	A		USGS	9067200	12/30/2008	14.2
72.7	A		USGS	9067200	12/31/2008	13.5
79.4	A		USGS	9067200	1/1/2009	13.5
75.7	A		USGS	9067200	1/2/2009	13.2
74.4	A		USGS	9067200	1/3/2009	13.2
58	A		USGS	9067200	1/4/2009	11.6
51.1	A:e		USGS	9067200	1/5/2009	11.6
77.6	A		USGS	9067200	1/6/2009	12.7
77.6	A		USGS	9067200	1/7/2009	13
78.2	A		USGS	9067200	1/8/2009	12.3
77.2	A		USGS	9067200	1/9/2009	12.5
70.4	A		USGS	9067200	1/10/2009	12.1
76	A		USGS	9067200	1/11/2009	12.3
75.1	A		USGS	9067200	1/12/2009	11.6
77.2	A		USGS	9067200	1/13/2009	11.8
78.1	A		USGS	9067200	1/14/2009	11.9
76.1	A		USGS	9067200	1/15/2009	11.5
67.7	A		USGS	9067200	1/16/2009	11.4
66.9	A		USGS	9067200	1/17/2009	11.1
64.4	A		USGS	9067200	1/18/2009	11
66.6	A		USGS	9067200	1/19/2009	11.3
65.4	A		USGS	9067200	1/20/2009	11.7
64.8	A		USGS	9067200	1/21/2009	12.1
75.7	A		USGS	9067200	1/22/2009	11.9
81.3	A		USGS	9067200	1/23/2009	14
76.3	A		USGS	9067200	1/24/2009	15.9
75.2	A		USGS	9067200	1/25/2009	13.8
74.3	A		USGS	9067200	1/26/2009	12.4
69	A		USGS	9067200	1/27/2009	11.1
64.8	A		USGS	9067200	1/28/2009	10.5
74.4	A		USGS	9067200	1/29/2009	11.1
73.8	A		USGS	9067200	1/30/2009	10.8
69.5	A		USGS	9067200	1/31/2009	10.2
73.2	A		USGS	9067200	2/1/2009	10.9
72.4	A		USGS	9067200	2/2/2009	10.7
75.1	A		USGS	9067200	2/3/2009	11.1
69	A		USGS	9067200	2/4/2009	10.3
69.7	A		USGS	9067200	2/5/2009	10.5
73.7	A		USGS	9067200	2/6/2009	10.2
72.9	A		USGS	9067200	2/7/2009	10.3
72	A		USGS	9067200	2/8/2009	10.1
71.8	A		USGS	9067200	2/9/2009	9.99
70.2	A		USGS	9067200	2/10/2009	9.93
69.6	A		USGS	9067200	2/11/2009	9.51
65.4	A		USGS	9067200	2/12/2009	8.68
72.8	A		USGS	9067200	2/13/2009	10.2

71.6	A		USGS	9067200	2/14/2009	10.1
68.3	A		USGS	9067200	2/15/2009	9.39
66.5	A		USGS	9067200	2/16/2009	9.39
73.3	A		USGS	9067200	2/17/2009	9.85
70.5	A		USGS	9067200	2/18/2009	9.7
68.8	A		USGS	9067200	2/19/2009	9.27
61.9	A		USGS	9067200	2/20/2009	9.04
69.6	A		USGS	9067200	2/21/2009	9.45
65.1	A		USGS	9067200	2/22/2009	9.39
74.2	A		USGS	9067200	2/23/2009	10
77.4	A		USGS	9067200	2/24/2009	10.6
74.9	A		USGS	9067200	2/25/2009	10.6
75.6	A		USGS	9067200	2/26/2009	10.5
71.5	A		USGS	9067200	2/27/2009	9.84
57.2	A		USGS	9067200	2/28/2009	9.14
72.8	A		USGS	9067200	3/1/2009	10.2
78.6	A		USGS	9067200	3/2/2009	10.4
82.7	A		USGS	9067200	3/3/2009	10.7
83.9	A		USGS	9067200	3/4/2009	10.8
83.9	A		USGS	9067200	3/5/2009	10.5
81.2	A		USGS	9067200	3/6/2009	10.1
79	A		USGS	9067200	3/7/2009	9.98
72.4	A		USGS	9067200	3/8/2009	9.51
74.1	A		USGS	9067200	3/9/2009	10
78	A		USGS	9067200	3/10/2009	10.3
67	A		USGS	9067200	3/11/2009	9.73
77.4	A		USGS	9067200	3/12/2009	10.1
76.6	A		USGS	9067200	3/13/2009	10.1
71.5	A		USGS	9067200	3/14/2009	9.9
74.4	A		USGS	9067200	3/15/2009	9.9
77.6	A		USGS	9067200	3/16/2009	10.2
87.7	A		USGS	9067200	3/17/2009	10.8
103	A		USGS	9067200	3/18/2009	11.3
111	A		USGS	9067200	3/19/2009	11.9
127	A		USGS	9067200	3/20/2009	12.7
138	A		USGS	9067200	3/21/2009	13.4
155	A		USGS	9067200	3/22/2009	14.6
177	A		USGS	9067200	3/23/2009	14.9
152	A		USGS	9067200	3/24/2009	13.9
140	A		USGS	9067200	3/25/2009	14
127	A		USGS	9067200	3/26/2009	13.7
112	A		USGS	9067200	3/27/2009	12.7
108	A		USGS	9067200	3/28/2009	12.9
108	A		USGS	9067200	3/29/2009	13.2
112	A		USGS	9067200	3/30/2009	13.2
98	A		USGS	9067200	3/31/2009	12.2
106	A		USGS	9067200	4/1/2009	12.8

97	A		USGS	9067200	4/2/2009	12.3
106	A		USGS	9067200	4/3/2009	13.2
103	A		USGS	9067200	4/4/2009	12.9
89.7	A		USGS	9067200	4/5/2009	12
90.5	A		USGS	9067200	4/6/2009	12.3
109	A		USGS	9067200	4/7/2009	13.1
146	A		USGS	9067200	4/8/2009	14.8
186	A		USGS	9067200	4/9/2009	15.3
179	A		USGS	9067200	4/10/2009	15.6
196	A		USGS	9067200	4/11/2009	16.2
199	A		USGS	9067200	4/12/2009	16.5
197	A		USGS	9067200	4/13/2009	17
223	A		USGS	9067200	4/14/2009	17.5
241	A		USGS	9067200	4/15/2009	18.5
292	A		USGS	9067200	4/16/2009	19
245	A		USGS	9067200	4/17/2009	17.9
222	A		USGS	9067200	4/18/2009	17.7
212	A		USGS	9067200	4/19/2009	18.2
246	A		USGS	9067200	4/20/2009	20.2
316	A		USGS	9067200	4/21/2009	22.6
449	A		USGS	9067200	4/22/2009	26.2
540	A		USGS	9067200	4/23/2009	28.5
644	A		USGS	9067200	4/24/2009	31.1
708	A		USGS	9067200	4/25/2009	34.2
693	A		USGS	9067200	4/26/2009	35.8
576	A		USGS	9067200	4/27/2009	34.3
547	A		USGS	9067200	4/28/2009	32
617	A		USGS	9067200	4/29/2009	32.4
818	A		USGS	9067200	4/30/2009	39.7
990	A		USGS	9067200	5/1/2009	47.4
1010	A		USGS	9067200	5/2/2009	50.8
997	A		USGS	9067200	5/3/2009	52
917	A		USGS	9067200	5/4/2009	50.1
793	A		USGS	9067200	5/5/2009	44.6
806	A		USGS	9067200	5/6/2009	45.7
1130	A		USGS	9067200	5/7/2009	64.8
1420	A		USGS	9067200	5/8/2009	88.7
1390	A:e		USGS	9067200	5/9/2009	87.3
1380	A		USGS	9067200	5/10/2009	85.1
1290	A		USGS	9067200	5/11/2009	79.8
1570	A		USGS	9067200	5/12/2009	121
1740	A		USGS	9067200	5/13/2009	154
1720	A		USGS	9067200	5/14/2009	125
1830	A		USGS	9067200	5/15/2009	160
1910	A		USGS	9067200	5/16/2009	224
2100	A		USGS	9067200	5/17/2009	296
2380	A		USGS	9067200	5/18/2009	344

2780	A		USGS	9067200	5/19/2009	372
2690	A		USGS	9067200	5/20/2009	353
2630	A		USGS	9067200	5/21/2009	343
2410	A		USGS	9067200	5/22/2009	316
2430	A		USGS	9067200	5/23/2009	334
2500	A		USGS	9067200	5/24/2009	348
2470	A		USGS	9067200	5/25/2009	333
2330	A		USGS	9067200	5/26/2009	327
2170	A		USGS	9067200	5/27/2009	299
2090	A		USGS	9067200	5/28/2009	275
2140	A		USGS	9067200	5/29/2009	280
2360	A		USGS	9067200	5/30/2009	316
2340	A		USGS	9067200	5/31/2009	327
2500	A		USGS	9067200	6/1/2009	335
2390	A		USGS	9067200	6/2/2009	318
2510	A		USGS	9067200	6/3/2009	340
2460	A		USGS	9067200	6/4/2009	326
2400	A		USGS	9067200	6/5/2009	323
2350	A		USGS	9067200	6/6/2009	308
2170	A		USGS	9067200	6/7/2009	258
1920	A		USGS	9067200	6/8/2009	201
1840	A		USGS	9067200	6/9/2009	198
1750	A		USGS	9067200	6/10/2009	186
1720	A		USGS	9067200	6/11/2009	155
1600	A		USGS	9067200	6/12/2009	123
1550	A		USGS	9067200	6/13/2009	113
1690	A		USGS	9067200	6/14/2009	142
1650	A		USGS	9067200	6/15/2009	142
1600	A		USGS	9067200	6/16/2009	147
1680	A		USGS	9067200	6/17/2009	160
1800	A		USGS	9067200	6/18/2009	184
1830	A		USGS	9067200	6/19/2009	191
1960	A		USGS	9067200	6/20/2009	204
2000	A		USGS	9067200	6/21/2009	208
1990	A		USGS	9067200	6/22/2009	218
1960	A		USGS	9067200	6/23/2009	222
1870	A		USGS	9067200	6/24/2009	239
2200	A		USGS	9067200	6/25/2009	422
2230	A		USGS	9067200	6/26/2009	505
2200	A		USGS	9067200	6/27/2009	301
1990	A		USGS	9067200	6/28/2009	410
1780	A		USGS	9067200	6/29/2009	333
1640	A		USGS	9067200	6/30/2009	333
1580	A		USGS	9067200	7/1/2009	314
1510	A		USGS	9067200	7/2/2009	298
1580	A		USGS	9067200	7/3/2009	378
1480	A		USGS	9067200	7/4/2009	331

1390	A		USGS	9067200	7/5/2009	339
1300	A		USGS	9067200	7/6/2009	299
1120	A		USGS	9067200	7/7/2009	254
1040	A		USGS	9067200	7/8/2009	241
875	A		USGS	9067200	7/9/2009	223
802	A		USGS	9067200	7/10/2009	199
761	A		USGS	9067200	7/11/2009	200
771	A		USGS	9067200	7/12/2009	256
709	A		USGS	9067200	7/13/2009	209
669	A		USGS	9067200	7/14/2009	188
623	A		USGS	9067200	7/15/2009	163
555	A		USGS	9067200	7/16/2009	134
519	A		USGS	9067200	7/17/2009	125
497	A		USGS	9067200	7/18/2009	112
483	A		USGS	9067200	7/19/2009	104
456	A		USGS	9067200	7/20/2009	95.7
436	A		USGS	9067200	7/21/2009	90.8
410	A		USGS	9067200	7/22/2009	86.4
383	A		USGS	9067200	7/23/2009	79.8
367	A		USGS	9067200	7/24/2009	78.1
353	A		USGS	9067200	7/25/2009	74.8
362	A		USGS	9067200	7/26/2009	77.9
398	A		USGS	9067200	7/27/2009	81.8
372	A		USGS	9067200	7/28/2009	74.9
361	A		USGS	9067200	7/29/2009	75.8
494	A		USGS	9067200	7/30/2009	78.8
453	A		USGS	9067200	7/31/2009	75.8
450	A		USGS	9067200	8/1/2009	79.2
376	A		USGS	9067200	8/2/2009	68.6
344	A		USGS	9067200	8/3/2009	62.8
314	A		USGS	9067200	8/4/2009	58.5
284	A		USGS	9067200	8/5/2009	55.4
276	A		USGS	9067200	8/6/2009	54
295	A		USGS	9067200	8/7/2009	55.5
263	A		USGS	9067200	8/8/2009	50.7
239	A		USGS	9067200	8/9/2009	46.8
225	A		USGS	9067200	8/10/2009	44.3
213	A		USGS	9067200	8/11/2009	41.9
201	A		USGS	9067200	8/12/2009	39.3
195	A		USGS	9067200	8/13/2009	37.9
200	A		USGS	9067200	8/14/2009	38.6
257	A		USGS	9067200	8/15/2009	44.7
248	A		USGS	9067200	8/16/2009	41.3
209	A		USGS	9067200	8/17/2009	37.5
189	A		USGS	9067200	8/18/2009	35.5
177	A		USGS	9067200	8/19/2009	34.2
165	A		USGS	9067200	8/20/2009	29.9

157	A		USGS	9067200	8/21/2009	29.8
149	A		USGS	9067200	8/22/2009	28.7
144	A		USGS	9067200	8/23/2009	27.5
154	A		USGS	9067200	8/24/2009	25.8
158	A		USGS	9067200	8/25/2009	27
148	A		USGS	9067200	8/26/2009	26.6
140	A		USGS	9067200	8/27/2009	25.9
130	A		USGS	9067200	8/28/2009	23.2
125	A		USGS	9067200	8/29/2009	22.5
119	A		USGS	9067200	8/30/2009	22.9
123	A		USGS	9067200	8/31/2009	23.5
117	A		USGS	9067200	9/1/2009	21.7
109	A		USGS	9067200	9/2/2009	20
106	A		USGS	9067200	9/3/2009	19.5
101	A		USGS	9067200	9/4/2009	20.1
104	A		USGS	9067200	9/5/2009	20.7
101	A		USGS	9067200	9/6/2009	21.3
105	A		USGS	9067200	9/7/2009	21.8
99.8	A		USGS	9067200	9/8/2009	21.7
96	A		USGS	9067200	9/9/2009	21.1
95.7	A		USGS	9067200	9/10/2009	21.2
95.3	A		USGS	9067200	9/11/2009	19.7
94.8	A		USGS	9067200	9/12/2009	19.8
106	A		USGS	9067200	9/13/2009	20.1
113	A		USGS	9067200	9/14/2009	20.2
118	A		USGS	9067200	9/15/2009	21.1
121	A		USGS	9067200	9/16/2009	21.3
106	A		USGS	9067200	9/17/2009	20.4
98.7	A		USGS	9067200	9/18/2009	19.6
96.5	A		USGS	9067200	9/19/2009	18.7
95.6	A		USGS	9067200	9/20/2009	18.5
135	A		USGS	9067200	9/21/2009	25.2
139	A		USGS	9067200	9/22/2009	25.6
119	A		USGS	9067200	9/23/2009	24.5
115	A		USGS	9067200	9/24/2009	23.3
115	A		USGS	9067200	9/25/2009	22.1
116	A		USGS	9067200	9/26/2009	22.6
109	A		USGS	9067200	9/27/2009	22.9
105	A		USGS	9067200	9/28/2009	23.1
99.5	A		USGS	9067200	9/29/2009	21.7
99	A		USGS	9067200	9/30/2009	21
108	A		USGS	9067200	10/1/2009	23.2
99.1	A		USGS	9067200	10/2/2009	22.6
102	A		USGS	9067200	10/3/2009	22.5
102	A		USGS	9067200	10/4/2009	22.9
118	A		USGS	9067200	10/5/2009	24.5
114	A		USGS	9067200	10/6/2009	24.2

109	A		USGS	9067200	10/7/2009	24.2
114	A		USGS	9067200	10/8/2009	24.6
108	A		USGS	9067200	10/9/2009	24
104	A		USGS	9067200	10/10/2009	24.4
101	A		USGS	9067200	10/11/2009	23.7
101	A		USGS	9067200	10/12/2009	23
105	A:e		USGS	9067200	10/13/2009	23.8
110	A:e		USGS	9067200	10/14/2009	23.5
127	A:e		USGS	9067200	10/15/2009	23.8
113	A:e		USGS	9067200	10/16/2009	22.8
108	A		USGS	9067200	10/17/2009	22.8
108	A		USGS	9067200	10/18/2009	24.3
110	A		USGS	9067200	10/19/2009	25.3
115	A		USGS	9067200	10/20/2009	25.6
120	A		USGS	9067200	10/21/2009	26
111	A		USGS	9067200	10/22/2009	23.7
110	A		USGS	9067200	10/23/2009	24.3
111	A		USGS	9067200	10/24/2009	23.7
116	A		USGS	9067200	10/25/2009	23.8
88	A		USGS	9067200	10/26/2009	20.1
114	A		USGS	9067200	10/27/2009	23.1
110	A		USGS	9067200	10/28/2009	22.1
85.1	A		USGS	9067200	10/29/2009	19.6
92.5	A		USGS	9067200	10/30/2009	19.9
107	A		USGS	9067200	10/31/2009	22
103	A		USGS	9067200	11/1/2009	21.5
103	A		USGS	9067200	11/2/2009	21.2
97.6	A		USGS	9067200	11/3/2009	21.7
95.4	A		USGS	9067200	11/4/2009	21.2
96.8	A		USGS	9067200	11/5/2009	21
101	A		USGS	9067200	11/6/2009	20.8
100	A		USGS	9067200	11/7/2009	20.4
96.1	A		USGS	9067200	11/8/2009	20.3
95.4	A		USGS	9067200	11/9/2009	19.7
89.5	A		USGS	9067200	11/10/2009	19.6
88.2	A		USGS	9067200	11/11/2009	19.4
93.5	A		USGS	9067200	11/12/2009	19
95.9	A		USGS	9067200	11/13/2009	19.1
93.4	A		USGS	9067200	11/14/2009	19.1
87.7	A		USGS	9067200	11/15/2009	18.6
61.5	A		USGS	9067200	11/16/2009	15.6
69.6	A		USGS	9067200	11/17/2009	17.6
82	A		USGS	9067200	11/18/2009	18
76.1	A		USGS	9067200	11/19/2009	17.5
63.9	A		USGS	9067200	11/20/2009	16.4
69.1	A		USGS	9067200	11/21/2009	16.5
79.9	A		USGS	9067200	11/22/2009	16.9

77.8	A		USGS	9067200	11/23/2009	16.8
57.6	A		USGS	9067200	11/24/2009	16.5
60.7	A		USGS	9067200	11/25/2009	18.2
67.8	A		USGS	9067200	11/26/2009	17
67	A		USGS	9067200	11/27/2009	16.4
68.3	A		USGS	9067200	11/28/2009	15.8
68.7	A		USGS	9067200	11/29/2009	15.9
59.8	A		USGS	9067200	11/30/2009	16
66.2	A		USGS	9067200	12/1/2009	15.9
56	A		USGS	9067200	12/2/2009	14.3
38.5	A		USGS	9067200	12/3/2009	11.5
37	A		USGS	9067200	12/4/2009	11.7
43.5	A		USGS	9067200	12/5/2009	14.7
48.5	A		USGS	9067200	12/6/2009	17.6
52.2	A:e		USGS	9067200	12/7/2009	18.7
51.2	A:e		USGS	9067200	12/8/2009	15.5
51.7	A		USGS	9067200	12/9/2009	14.5
53.8	A		USGS	9067200	12/10/2009	14
53.9	A		USGS	9067200	12/11/2009	13.8
58.8	A		USGS	9067200	12/12/2009	14.4
62.5	A		USGS	9067200	12/13/2009	14.1
64	A		USGS	9067200	12/14/2009	13.9
63.1	A		USGS	9067200	12/15/2009	13.9
62.9	A		USGS	9067200	12/16/2009	13.8
68.7	A		USGS	9067200	12/17/2009	13.7
68.3	A		USGS	9067200	12/18/2009	13.5
57.1	A		USGS	9067200	12/19/2009	13.3
65.1	A		USGS	9067200	12/20/2009	13.3
59.9	A		USGS	9067200	12/21/2009	13.2
58.9	A		USGS	9067200	12/22/2009	12.8
62	A		USGS	9067200	12/23/2009	13.2
59.4	A		USGS	9067200	12/24/2009	13
55.9	A		USGS	9067200	12/25/2009	12.6
58	A		USGS	9067200	12/26/2009	12.5
59.5	A		USGS	9067200	12/27/2009	11.6
52.5	A		USGS	9067200	12/28/2009	11.8
61.8	A		USGS	9067200	12/29/2009	12.1
63.8	A		USGS	9067200	12/30/2009	12.4
64	A		USGS	9067200	12/31/2009	12
68.5	A		USGS	9067200	1/1/2010	12.1
68.5	A		USGS	9067200	1/2/2010	12.2
63.2	A		USGS	9067200	1/3/2010	11.7
60.5	A		USGS	9067200	1/4/2010	11.4
60.3	A		USGS	9067200	1/5/2010	11.3
67.3	A		USGS	9067200	1/6/2010	11.8
63	A		USGS	9067200	1/7/2010	11.4
45	A		USGS	9067200	1/8/2010	10.7

57.9	A		USGS	9067200	1/9/2010	10.8
68	A		USGS	9067200	1/10/2010	11.6
66.7	A		USGS	9067200	1/11/2010	11.5
64.1	A		USGS	9067200	1/12/2010	11
65.1	A		USGS	9067200	1/13/2010	11.2
60	A:e		USGS	9067200	1/14/2010	10.6
58.6	A:e		USGS	9067200	1/15/2010	10.5
60.3	A:e		USGS	9067200	1/16/2010	10.8
67	A		USGS	9067200	1/17/2010	10.8
65.4	A		USGS	9067200	1/18/2010	10.5
63.2	A		USGS	9067200	1/19/2010	10.4
63.3	A		USGS	9067200	1/20/2010	10.3
64.5	A		USGS	9067200	1/21/2010	10.4
67.6	A		USGS	9067200	1/22/2010	10.7
66.1	A		USGS	9067200	1/23/2010	10.6
65.9	A		USGS	9067200	1/24/2010	10.4
64	A		USGS	9067200	1/25/2010	10.1
63	A		USGS	9067200	1/26/2010	9.89
67.9	A		USGS	9067200	1/27/2010	10.4
67.3	A		USGS	9067200	1/28/2010	10.3
67.4	A		USGS	9067200	1/29/2010	10.3
63.4	A		USGS	9067200	1/30/2010	9.85
66.4	A		USGS	9067200	1/31/2010	10.1
66.9	A		USGS	9067200	2/1/2010	10
59.5	A		USGS	9067200	2/2/2010	9.63
64.5	A		USGS	9067200	2/3/2010	10
67.1	A		USGS	9067200	2/4/2010	10
62.9	A		USGS	9067200	2/5/2010	9.63
63.6	A		USGS	9067200	2/6/2010	9.79
62.9	A		USGS	9067200	2/7/2010	9.79
63.1	A		USGS	9067200	2/8/2010	9.62
58.1	A		USGS	9067200	2/9/2010	9.25
61.8	A		USGS	9067200	2/10/2010	9.49
64.5	A		USGS	9067200	2/11/2010	9.57
61.9	A		USGS	9067200	2/12/2010	9.3
62.1	A		USGS	9067200	2/13/2010	9.36
61.2	A		USGS	9067200	2/14/2010	9.15
54.8	A		USGS	9067200	2/15/2010	8.82
63.3	A		USGS	9067200	2/16/2010	9.15
60.7	A		USGS	9067200	2/17/2010	8.8
60.3	A		USGS	9067200	2/18/2010	8.77
60.8	A		USGS	9067200	2/19/2010	8.68
61.5	A		USGS	9067200	2/20/2010	8.82
61.1	A		USGS	9067200	2/21/2010	8.85
60.5	A		USGS	9067200	2/22/2010	8.55
52.9	A		USGS	9067200	2/23/2010	8.07
61.8	A		USGS	9067200	2/24/2010	8.25

65.7	A:e		USGS	9067200	2/25/2010	11.1
55	A:e		USGS	9067200	2/26/2010	10.9
53	A		USGS	9067200	2/27/2010	10.8
57.7	A		USGS	9067200	2/28/2010	10.7
56.3	A		USGS	9067200	3/1/2010	10.8
55.8	A		USGS	9067200	3/2/2010	10.7
58.2	A		USGS	9067200	3/3/2010	10.6
58.5	A		USGS	9067200	3/4/2010	10.6
58.6	A		USGS	9067200	3/5/2010	10.5
55.8	A		USGS	9067200	3/6/2010	10.5
57	A		USGS	9067200	3/7/2010	10.5
59.7	A		USGS	9067200	3/8/2010	10.5
57.7	A		USGS	9067200	3/9/2010	10.5
56.8	A		USGS	9067200	3/10/2010	10.5
55.5	A		USGS	9067200	3/11/2010	10.4
54.7	A		USGS	9067200	3/12/2010	10.4
55.6	A		USGS	9067200	3/13/2010	10.4
57.1	A		USGS	9067200	3/14/2010	9.29
55.8	A		USGS	9067200	3/15/2010	9.31
57.9	A		USGS	9067200	3/16/2010	9.56
61.8	A		USGS	9067200	3/17/2010	9.97
63.1	A		USGS	9067200	3/18/2010	10
65.1	A		USGS	9067200	3/19/2010	10.6
55.7	A		USGS	9067200	3/20/2010	10
57.6	A		USGS	9067200	3/21/2010	10.3
61.4	A		USGS	9067200	3/22/2010	10.3
62.4	A		USGS	9067200	3/23/2010	9.95
60.3	A		USGS	9067200	3/24/2010	9.84
57.9	A		USGS	9067200	3/25/2010	9.94
61.8	A		USGS	9067200	3/26/2010	10.3
58.6	A		USGS	9067200	3/27/2010	10
56.4	A		USGS	9067200	3/28/2010	10.2
60.7	A		USGS	9067200	3/29/2010	10.5
66.7	A		USGS	9067200	3/30/2010	11.4
81.3	A		USGS	9067200	3/31/2010	12.6
87.9	A		USGS	9067200	4/1/2010	12.4
73.1	A		USGS	9067200	4/2/2010	11.1
68.4	A		USGS	9067200	4/3/2010	11
68	A		USGS	9067200	4/4/2010	11.1
68	A		USGS	9067200	4/5/2010	11.5
73	A		USGS	9067200	4/6/2010	12.1
68.1	A		USGS	9067200	4/7/2010	11.6
71.4	A		USGS	9067200	4/8/2010	11.8
85.5	A		USGS	9067200	4/9/2010	13.1
106	A		USGS	9067200	4/10/2010	14
126	A		USGS	9067200	4/11/2010	15.5
173	A		USGS	9067200	4/12/2010	17.9

224	A		USGS	9067200	4/13/2010	19.3
195	A		USGS	9067200	4/14/2010	18.2
248	A		USGS	9067200	4/15/2010	19.8
322	A		USGS	9067200	4/16/2010	20.9
406	A		USGS	9067200	4/17/2010	24.6
357	A		USGS	9067200	4/18/2010	25.8
401	A		USGS	9067200	4/19/2010	29.2
462	A		USGS	9067200	4/20/2010	32.3
546	A		USGS	9067200	4/21/2010	37.6
696	A		USGS	9067200	4/22/2010	47.9
574	A		USGS	9067200	4/23/2010	43.4
444	A		USGS	9067200	4/24/2010	37.8
381	A		USGS	9067200	4/25/2010	33.2
346	A		USGS	9067200	4/26/2010	29.3
329	A		USGS	9067200	4/27/2010	27.2
374	A		USGS	9067200	4/28/2010	27.9
404	A		USGS	9067200	4/29/2010	29.7
341	A		USGS	9067200	4/30/2010	27
309	A		USGS	9067200	5/1/2010	27.4
288	A		USGS	9067200	5/2/2010	26.3
268	A		USGS	9067200	5/3/2010	25.3
291	A		USGS	9067200	5/4/2010	26
331	A		USGS	9067200	5/5/2010	26.3
382	A		USGS	9067200	5/6/2010	28.3
353	A		USGS	9067200	5/7/2010	27.5
346	A		USGS	9067200	5/8/2010	27.5
366	A		USGS	9067200	5/9/2010	27.8
487	A		USGS	9067200	5/10/2010	33.2
474	A		USGS	9067200	5/11/2010	34.3
495	A		USGS	9067200	5/12/2010	33.6
473	A		USGS	9067200	5/13/2010	32.2
476	A		USGS	9067200	5/14/2010	30.9
534	A		USGS	9067200	5/15/2010	32.2
506	A		USGS	9067200	5/16/2010	29.9
552	A		USGS	9067200	5/17/2010	31.6
711	A		USGS	9067200	5/18/2010	41
882	A		USGS	9067200	5/19/2010	52.9
848	A		USGS	9067200	5/20/2010	50.7
1010	A		USGS	9067200	5/21/2010	68.7
1320	A		USGS	9067200	5/22/2010	104
1530	A		USGS	9067200	5/23/2010	125
1730	A		USGS	9067200	5/24/2010	179
1240	A		USGS	9067200	5/25/2010	100
1230	A		USGS	9067200	5/26/2010	94.6
1610	A		USGS	9067200	5/27/2010	171
2410	A		USGS	9067200	5/28/2010	387
3150	A		USGS	9067200	5/29/2010	336

2980	A		USGS	9067200	5/30/2010	344
2700	A		USGS	9067200	5/31/2010	327
2700	A		USGS	9067200	6/1/2010	324
2420	A		USGS	9067200	6/2/2010	299
2080	A		USGS	9067200	6/3/2010	270
2410	A		USGS	9067200	6/4/2010	325
3610	A		USGS	9067200	6/5/2010	588
4320	A		USGS	9067200	6/6/2010	651
4150	A		USGS	9067200	6/7/2010	608
3800	A		USGS	9067200	6/8/2010	538
3420	A		USGS	9067200	6/9/2010	473
3200	A		USGS	9067200	6/10/2010	439
2580	A		USGS	9067200	6/11/2010	349
2290	A		USGS	9067200	6/12/2010	306
2160	A		USGS	9067200	6/13/2010	289
1830	A		USGS	9067200	6/14/2010	233
1580	A		USGS	9067200	6/15/2010	179
1560	A		USGS	9067200	6/16/2010	185
1500	A		USGS	9067200	6/17/2010	218
1530	A		USGS	9067200	6/18/2010	243
1550	A		USGS	9067200	6/19/2010	275
1520	A		USGS	9067200	6/20/2010	287
1390	A		USGS	9067200	6/21/2010	258
1310	A		USGS	9067200	6/22/2010	246
1190	A		USGS	9067200	6/23/2010	246
1130	A		USGS	9067200	6/24/2010	250
1110	A		USGS	9067200	6/25/2010	261
1100	A		USGS	9067200	6/26/2010	266
1030	A		USGS	9067200	6/27/2010	260
902	A		USGS	9067200	6/28/2010	266
858	A		USGS	9067200	6/29/2010	270
804	A		USGS	9067200	6/30/2010	263
769	A		USGS	9067200	7/1/2010	262
758	A		USGS	9067200	7/2/2010	260
697	A		USGS	9067200	7/3/2010	252
636	A		USGS	9067200	7/4/2010	243
591	A		USGS	9067200	7/5/2010	228
538	A		USGS	9067200	7/6/2010	194
506	A		USGS	9067200	7/7/2010	161
504	A		USGS	9067200	7/8/2010	144
472	A		USGS	9067200	7/9/2010	114
433	A		USGS	9067200	7/10/2010	104
439	A		USGS	9067200	7/11/2010	91.3
429	A		USGS	9067200	7/12/2010	84.7
384	A		USGS	9067200	7/13/2010	78.4
361	A		USGS	9067200	7/14/2010	77
340	A		USGS	9067200	7/15/2010	75.9

315	A		USGS	9067200	7/16/2010	70.6
296	A		USGS	9067200	7/17/2010	67.3
278	A		USGS	9067200	7/18/2010	62.6
271	A		USGS	9067200	7/19/2010	59.2
254	A		USGS	9067200	7/20/2010	54.1
317	A		USGS	9067200	7/21/2010	72.9
339	A		USGS	9067200	7/22/2010	76.1
286	A		USGS	9067200	7/23/2010	60
253	A		USGS	9067200	7/24/2010	51.2
229	A		USGS	9067200	7/25/2010	45.1
216	A		USGS	9067200	7/26/2010	41.4
200	A		USGS	9067200	7/27/2010	39.4
216	A		USGS	9067200	7/28/2010	39
284	A		USGS	9067200	7/29/2010	38.9
324	A		USGS	9067200	7/30/2010	41.1
289	A		USGS	9067200	7/31/2010	38.6
254	A		USGS	9067200	8/1/2010	40.4
346	A		USGS	9067200	8/2/2010	64.2
444	A		USGS	9067200	8/3/2010	74.1
359	A		USGS	9067200	8/4/2010	62.8
338	A		USGS	9067200	8/5/2010	66
338	A		USGS	9067200	8/6/2010	61.3
289	A		USGS	9067200	8/7/2010	56
267	A		USGS	9067200	8/8/2010	51.9
246	A		USGS	9067200	8/9/2010	49.1
224	A		USGS	9067200	8/10/2010	47.3
200	A		USGS	9067200	8/11/2010	42.8
204	A		USGS	9067200	8/12/2010	42.3
205	A		USGS	9067200	8/13/2010	38.2
177	A		USGS	9067200	8/14/2010	34.9
159	A		USGS	9067200	8/15/2010	31.1
158	A		USGS	9067200	8/16/2010	31.1
179	A		USGS	9067200	8/17/2010	35.7
154	A		USGS	9067200	8/18/2010	30.6
162	A		USGS	9067200	8/19/2010	33.6
215	A		USGS	9067200	8/20/2010	56.2
180	A		USGS	9067200	8/21/2010	43
156	A		USGS	9067200	8/22/2010	38
146	A		USGS	9067200	8/23/2010	34.6
138	A		USGS	9067200	8/24/2010	32.5
128	A		USGS	9067200	8/25/2010	29.5
121	A		USGS	9067200	8/26/2010	26.8
116	A		USGS	9067200	8/27/2010	25.2
113	A		USGS	9067200	8/28/2010	25.2
117	A		USGS	9067200	8/29/2010	24.5
114	A		USGS	9067200	8/30/2010	24.4
110	A		USGS	9067200	8/31/2010	23.5

98.2	A		USGS	9067200	9/1/2010	21.4
90.5	A		USGS	9067200	9/2/2010	20.1
85.2	A		USGS	9067200	9/3/2010	20.4
88.4	A		USGS	9067200	9/4/2010	20
89.9	A		USGS	9067200	9/5/2010	19
83.6	A		USGS	9067200	9/6/2010	17.6
81	A		USGS	9067200	9/7/2010	17.6
85.3	A		USGS	9067200	9/8/2010	18.9
95.9	A		USGS	9067200	9/9/2010	20.4
88.1	A		USGS	9067200	9/10/2010	19.6
86.3	A		USGS	9067200	9/11/2010	19
83.5	A		USGS	9067200	9/12/2010	17.7
82.4	A		USGS	9067200	9/13/2010	17.1
75.9	A		USGS	9067200	9/14/2010	16.3
73.4	A		USGS	9067200	9/15/2010	16.7
73.1	A		USGS	9067200	9/16/2010	15.5
71.8	A		USGS	9067200	9/17/2010	14.7
74.8	A		USGS	9067200	9/18/2010	14.1
69.4	A		USGS	9067200	9/19/2010	14.5
67.5	A		USGS	9067200	9/20/2010	14.8
65.6	A		USGS	9067200	9/21/2010	14.4
66.5	A		USGS	9067200	9/22/2010	15.3
96.2	A		USGS	9067200	9/23/2010	18.4
93.6	A		USGS	9067200	9/24/2010	18.1
80.1	A		USGS	9067200	9/25/2010	16.6
75.5	A		USGS	9067200	9/26/2010	14.5
74.1	A		USGS	9067200	9/27/2010	14.9
69.4	A		USGS	9067200	9/28/2010	15.2
66.6	A		USGS	9067200	9/29/2010	14.2
66.3	A		USGS	9067200	9/30/2010	14.5
64.5	A		USGS	9067200	10/1/2010	13.5
64.9	A		USGS	9067200	10/2/2010	13.2
64.6	A		USGS	9067200	10/3/2010	13
65.5	A		USGS	9067200	10/4/2010	14
64.1	A		USGS	9067200	10/5/2010	14.4
64.4	A		USGS	9067200	10/6/2010	15.1
76.1	A		USGS	9067200	10/7/2010	15.6
83.1	A		USGS	9067200	10/8/2010	15.9
83.8	A		USGS	9067200	10/9/2010	16.2
82.5	A		USGS	9067200	10/10/2010	16.3
81.1	A		USGS	9067200	10/11/2010	16.1
86.3	A		USGS	9067200	10/12/2010	18.8
88.2	A		USGS	9067200	10/13/2010	19.8
82	A		USGS	9067200	10/14/2010	17.9
81.6	A		USGS	9067200	10/15/2010	15.9
77.3	A		USGS	9067200	10/16/2010	15.5
75.1	A		USGS	9067200	10/17/2010	14.2

73.5	A		USGS	9067200	10/18/2010	14
76.9	A		USGS	9067200	10/19/2010	16.1
76.6	A		USGS	9067200	10/20/2010	16.7
74.5	A		USGS	9067200	10/21/2010	16.8
80	A		USGS	9067200	10/22/2010	19.4
109	A		USGS	9067200	10/23/2010	25.5
103	A		USGS	9067200	10/24/2010	25.4
144	A		USGS	9067200	10/25/2010	31.8
124	A		USGS	9067200	10/26/2010	29.1
109	A		USGS	9067200	10/27/2010	28.5
90.7	A		USGS	9067200	10/28/2010	26
108	A		USGS	9067200	10/29/2010	27.5
106	A		USGS	9067200	10/30/2010	27.3
117	A		USGS	9067200	10/31/2010	27.8
106	A		USGS	9067200	11/1/2010	27.1
94.7	A		USGS	9067200	11/2/2010	25.3
99.1	A		USGS	9067200	11/3/2010	25.8
99.2	A		USGS	9067200	11/4/2010	25.8
100	A		USGS	9067200	11/5/2010	25.9
107	A		USGS	9067200	11/6/2010	25.8
110	A		USGS	9067200	11/7/2010	26
101	A		USGS	9067200	11/8/2010	25.1
108	A		USGS	9067200	11/9/2010	25.1
86.5	A		USGS	9067200	11/10/2010	22.7
82.7	A		USGS	9067200	11/11/2010	22.7
76.3	A		USGS	9067200	11/12/2010	21.3
73.5	A		USGS	9067200	11/13/2010	20.8
77.2	A		USGS	9067200	11/14/2010	21.5
80	A		USGS	9067200	11/15/2010	21.3
79.7	A		USGS	9067200	11/16/2010	21.4
78.7	A		USGS	9067200	11/17/2010	20.9
77.3	A		USGS	9067200	11/18/2010	21.5
81.1	A		USGS	9067200	11/19/2010	21
79.6	A		USGS	9067200	11/20/2010	20.1
84.1	A		USGS	9067200	11/21/2010	20.4
78	A		USGS	9067200	11/22/2010	19.5
66.5	A		USGS	9067200	11/23/2010	19.1
75.4	A		USGS	9067200	11/24/2010	18.8
54	A:e		USGS	9067200	11/25/2010	15.2
58.3	A		USGS	9067200	11/26/2010	13.8
70.6	A		USGS	9067200	11/27/2010	18
68.2	A		USGS	9067200	11/28/2010	19.3
72.3	A		USGS	9067200	11/29/2010	18.6
66.3	A		USGS	9067200	11/30/2010	17.6
68.7	A		USGS	9067200	12/1/2010	18.1
76.3	A		USGS	9067200	12/2/2010	18
78.2	A		USGS	9067200	12/3/2010	17.4

80.3	A		USGS	9067200	12/4/2010	17.6
76.5	A		USGS	9067200	12/5/2010	17.2
70.5	A		USGS	9067200	12/6/2010	16.5
72.8	A		USGS	9067200	12/7/2010	16.8
61.8	A		USGS	9067200	12/8/2010	16.4
72.1	A		USGS	9067200	12/9/2010	16.6
74.3	A		USGS	9067200	12/10/2010	16.3
68.5	A		USGS	9067200	12/11/2010	16
68	A		USGS	9067200	12/12/2010	16.2
71.6	A		USGS	9067200	12/13/2010	16.1
79.2	A		USGS	9067200	12/14/2010	16
76.9	A		USGS	9067200	12/15/2010	15.9
66.1	A		USGS	9067200	12/16/2010	15.3
52.1	A		USGS	9067200	12/17/2010	14.6
70.7	A		USGS	9067200	12/18/2010	16.5
78.2	A		USGS	9067200	12/19/2010	15.6
86.2	A		USGS	9067200	12/20/2010	17.6
87.1	A		USGS	9067200	12/21/2010	17.6
86.5	A		USGS	9067200	12/22/2010	18.1
86.7	A		USGS	9067200	12/23/2010	18.5
81.7	A		USGS	9067200	12/24/2010	17.1
61.3	A		USGS	9067200	12/25/2010	14.8
64.3	A		USGS	9067200	12/26/2010	16.7
85.3	A		USGS	9067200	12/27/2010	16.1
65	A		USGS	9067200	12/28/2010	14.2
64.7	A		USGS	9067200	12/29/2010	15.8
75.5	A		USGS	9067200	12/30/2010	15.3
63.5	A		USGS	9067200	12/31/2010	14.1
53.4	A:e		USGS	9067200	1/1/2011	10
62.7	A:e		USGS	9067200	1/2/2011	11.2
77.9	A		USGS	9067200	1/3/2011	14.3
77.4	A		USGS	9067200	1/4/2011	14.9
82.1	A		USGS	9067200	1/5/2011	13.8
79.9	A		USGS	9067200	1/6/2011	13.5
75	A		USGS	9067200	1/7/2011	13.3
79.3	A		USGS	9067200	1/8/2011	13.3
82.2	A		USGS	9067200	1/9/2011	13.6
66	A		USGS	9067200	1/10/2011	13.2
55.7	A:e		USGS	9067200	1/11/2011	12.6
68.1	A		USGS	9067200	1/12/2011	13
81.9	A		USGS	9067200	1/13/2011	13.4
78.8	A		USGS	9067200	1/14/2011	13.5
75.9	A		USGS	9067200	1/15/2011	13.3
75.3	A		USGS	9067200	1/16/2011	13.1
79.4	A		USGS	9067200	1/17/2011	13.5
77.8	A		USGS	9067200	1/18/2011	13.2
76.7	A		USGS	9067200	1/19/2011	13.3

64.8	A		USGS	9067200	1/20/2011	12.5
73.6	A		USGS	9067200	1/21/2011	13.1
70.5	A		USGS	9067200	1/22/2011	12.9
69	A		USGS	9067200	1/23/2011	12.6
70.7	A		USGS	9067200	1/24/2011	13.1
60.1	A		USGS	9067200	1/25/2011	12.4
75.1	A		USGS	9067200	1/26/2011	12.8
68.3	A		USGS	9067200	1/27/2011	12.5
66.8	A		USGS	9067200	1/28/2011	12.3
68.3	A		USGS	9067200	1/29/2011	12.3
67.3	A		USGS	9067200	1/30/2011	12.1
66.1	A		USGS	9067200	1/31/2011	12.1
56.7	A		USGS	9067200	2/1/2011	10
45.7	A:e		USGS	9067200	2/2/2011	10.5
47.2	A:e		USGS	9067200	2/3/2011	11.9
59.7	A:e		USGS	9067200	2/4/2011	11.6
67.9	A:e		USGS	9067200	2/5/2011	10.7
67.3	A:e		USGS	9067200	2/6/2011	10.6
65.7	A:e		USGS	9067200	2/7/2011	10.5
66.7	A:e		USGS	9067200	2/8/2011	11
61.3	A:e		USGS	9067200	2/9/2011	10.8
55.8	A:e		USGS	9067200	2/10/2011	10.7
62.6	A:e		USGS	9067200	2/11/2011	10.5
67.8	A		USGS	9067200	2/12/2011	10.2
70.1	A		USGS	9067200	2/13/2011	10.2
70.8	A		USGS	9067200	2/14/2011	10.1
71.2	A		USGS	9067200	2/15/2011	10.2
71.9	A		USGS	9067200	2/16/2011	10.1
72.4	A		USGS	9067200	2/17/2011	10.2
69.7	A		USGS	9067200	2/18/2011	9.81
70.8	A		USGS	9067200	2/19/2011	10.1
73.8	A		USGS	9067200	2/20/2011	10.1
69.1	A		USGS	9067200	2/21/2011	9.98
64.9	A		USGS	9067200	2/22/2011	9.65
68.1	A		USGS	9067200	2/23/2011	9.82
71.8	A		USGS	9067200	2/24/2011	9.88
69.5	A		USGS	9067200	2/25/2011	9.79
69.5	A		USGS	9067200	2/26/2011	9.73
68.7	A		USGS	9067200	2/27/2011	9.71
71.3	A		USGS	9067200	2/28/2011	9.93
68.8	A		USGS	9067200	3/1/2011	9.87
72.3	A		USGS	9067200	3/2/2011	9.79
78.8	A		USGS	9067200	3/3/2011	9.91
77.1	A		USGS	9067200	3/4/2011	9.8
67.7	A		USGS	9067200	3/5/2011	9.36
77.8	A		USGS	9067200	3/6/2011	9.84
75.6	A		USGS	9067200	3/7/2011	9.89

73.9	A		USGS	9067200	3/8/2011	9.84
72.1	A		USGS	9067200	3/9/2011	9.64
72.5	A		USGS	9067200	3/10/2011	9.83
79.4	A		USGS	9067200	3/11/2011	10.3
84.1	A		USGS	9067200	3/12/2011	10.3
89.9	A		USGS	9067200	3/13/2011	10.7
81.7	A		USGS	9067200	3/14/2011	10.2
90.4	A		USGS	9067200	3/15/2011	10.7
96.3	A		USGS	9067200	3/16/2011	11.3
116	A		USGS	9067200	3/17/2011	12.3
112	A		USGS	9067200	3/18/2011	11.7
117	A		USGS	9067200	3/19/2011	11.7
117	A		USGS	9067200	3/20/2011	11.7
122	A		USGS	9067200	3/21/2011	12.5
135	A		USGS	9067200	3/22/2011	13.2
119	A		USGS	9067200	3/23/2011	11.9
115	A		USGS	9067200	3/24/2011	11.8
110	A		USGS	9067200	3/25/2011	11.4
109	A		USGS	9067200	3/26/2011	11.3
108	A		USGS	9067200	3/27/2011	11.4
109	A		USGS	9067200	3/28/2011	11.8
102	A		USGS	9067200	3/29/2011	11.3
104	A		USGS	9067200	3/30/2011	11.5
104	A		USGS	9067200	3/31/2011	11.6
109	A		USGS	9067200	4/1/2011	13.3
134	A		USGS	9067200	4/2/2011	15
180	A		USGS	9067200	4/3/2011	18.5
155	A		USGS	9067200	4/4/2011	15.4
152	A		USGS	9067200	4/5/2011	16
161	A		USGS	9067200	4/6/2011	17.1
159	A		USGS	9067200	4/7/2011	16.1
175	A		USGS	9067200	4/8/2011	16.8
206	A		USGS	9067200	4/9/2011	17.8
205	A		USGS	9067200	4/10/2011	17.5
181	A		USGS	9067200	4/11/2011	16.1
188	A		USGS	9067200	4/12/2011	16.9
205	A		USGS	9067200	4/13/2011	17.9
229	A		USGS	9067200	4/14/2011	18.9
200	A		USGS	9067200	4/15/2011	17.1
192	A		USGS	9067200	4/16/2011	17
184	A		USGS	9067200	4/17/2011	17.3
212	A:e		USGS	9067200	4/18/2011	20.4
324	A:e		USGS	9067200	4/19/2011	24.3
244	A		USGS	9067200	4/20/2011	22.5
298	A		USGS	9067200	4/21/2011	28.3
306	A		USGS	9067200	4/22/2011	26.2
290	A		USGS	9067200	4/23/2011	26

273	A		USGS	9067200	4/24/2011	25.3
274	A		USGS	9067200	4/25/2011	25.7
259	A		USGS	9067200	4/26/2011	25.1
235	A		USGS	9067200	4/27/2011	23.7
216	A		USGS	9067200	4/28/2011	23.2
244	A		USGS	9067200	4/29/2011	25.1
230	A		USGS	9067200	4/30/2011	23.5
210	A		USGS	9067200	5/1/2011	23.1
199	A		USGS	9067200	5/2/2011	21.9
192	A		USGS	9067200	5/3/2011	21.6
204	A		USGS	9067200	5/4/2011	22.2
224	A		USGS	9067200	5/5/2011	22.6
293	A		USGS	9067200	5/6/2011	24.8
415	A		USGS	9067200	5/7/2011	28.9
626	A		USGS	9067200	5/8/2011	36.8
852	A		USGS	9067200	5/9/2011	47.5
810	A		USGS	9067200	5/10/2011	47.1
805	A		USGS	9067200	5/11/2011	52.2
645	A		USGS	9067200	5/12/2011	48
566	A		USGS	9067200	5/13/2011	45.9
670	A		USGS	9067200	5/14/2011	46.9
826	A		USGS	9067200	5/15/2011	50.6
1170	A		USGS	9067200	5/16/2011	60
1380	A		USGS	9067200	5/17/2011	73.5
1190	A		USGS	9067200	5/18/2011	65.9
1030	A		USGS	9067200	5/19/2011	58.7
831	A		USGS	9067200	5/20/2011	51.4
720	A		USGS	9067200	5/21/2011	47.8
660	A		USGS	9067200	5/22/2011	45.1
730	A		USGS	9067200	5/23/2011	50.5
795	A		USGS	9067200	5/24/2011	55.1
731	A		USGS	9067200	5/25/2011	53
781	A		USGS	9067200	5/26/2011	54.8
1120	A		USGS	9067200	5/27/2011	68.6
1310	A		USGS	9067200	5/28/2011	83.1
1890	A		USGS	9067200	5/29/2011	123
2340	A		USGS	9067200	5/30/2011	185
1820	A		USGS	9067200	5/31/2011	121
1930	A		USGS	9067200	6/1/2011	112
2350	A		USGS	9067200	6/2/2011	180
2930	A		USGS	9067200	6/3/2011	269
2880	A		USGS	9067200	6/4/2011	267
3320	A		USGS	9067200	6/5/2011	350
3880	A		USGS	9067200	6/6/2011	427
4320	A		USGS	9067200	6/7/2011	463
3890	A		USGS	9067200	6/8/2011	413
3600	A		USGS	9067200	6/9/2011	446

3480	A		USGS	9067200	6/10/2011	418
3430	A		USGS	9067200	6/11/2011	420
3450	A		USGS	9067200	6/12/2011	409
3480	A		USGS	9067200	6/13/2011	385
3490	A		USGS	9067200	6/14/2011	383
3510	A		USGS	9067200	6/15/2011	363
3780	A		USGS	9067200	6/16/2011	418
4130	A		USGS	9067200	6/17/2011	462
3580	A		USGS	9067200	6/18/2011	346
3110	A		USGS	9067200	6/19/2011	333
2920	A		USGS	9067200	6/20/2011	334
2340	A		USGS	9067200	6/21/2011	284
2410	A		USGS	9067200	6/22/2011	315
2890	A		USGS	9067200	6/23/2011	388
3390	A		USGS	9067200	6/24/2011	439
3670	A		USGS	9067200	6/25/2011	490
3540	A		USGS	9067200	6/26/2011	506
3410	A		USGS	9067200	6/27/2011	510
3440	A		USGS	9067200	6/28/2011	513
3660	A		USGS	9067200	6/29/2011	531
3940	A		USGS	9067200	6/30/2011	509
3730	A		USGS	9067200	7/1/2011	501
3630	A		USGS	9067200	7/2/2011	483
3570	A		USGS	9067200	7/3/2011	457
3330	A		USGS	9067200	7/4/2011	443
3270	A		USGS	9067200	7/5/2011	434
3770	A		USGS	9067200	7/6/2011	676
3860	A		USGS	9067200	7/7/2011	693
4390	A		USGS	9067200	7/8/2011	644
4090	A		USGS	9067200	7/9/2011	781
3640	A		USGS	9067200	7/10/2011	737
3330	A		USGS	9067200	7/11/2011	633
2820	A		USGS	9067200	7/12/2011	400
2660	A		USGS	9067200	7/13/2011	433
2280	A		USGS	9067200	7/14/2011	381
2050	A		USGS	9067200	7/15/2011	320
1810	A		USGS	9067200	7/16/2011	284
1710	A		USGS	9067200	7/17/2011	286
1740	A		USGS	9067200	7/18/2011	289
1870	A		USGS	9067200	7/19/2011	311
1530	A		USGS	9067200	7/20/2011	282
1360	A		USGS	9067200	7/21/2011	242
1190	A		USGS	9067200	7/22/2011	214
1050	A		USGS	9067200	7/23/2011	194
968	A		USGS	9067200	7/24/2011	185
941	A		USGS	9067200	7/25/2011	182
885	A:e		USGS	9067200	7/26/2011	176

812	A:e		USGS	9067200	7/27/2011	164
744	A		USGS	9067200	7/28/2011	157
687	A		USGS	9067200	7/29/2011	150
646	A		USGS	9067200	7/30/2011	145
611	A		USGS	9067200	7/31/2011	150
659	A		USGS	9067200	8/1/2011	158
599	A		USGS	9067200	8/2/2011	145
692	A		USGS	9067200	8/3/2011	140
621	A		USGS	9067200	8/4/2011	140
544	A		USGS	9067200	8/5/2011	131
530	A		USGS	9067200	8/6/2011	122
487	A		USGS	9067200	8/7/2011	109
451	A		USGS	9067200	8/8/2011	99.1
413	A		USGS	9067200	8/9/2011	90.6
387	A		USGS	9067200	8/10/2011	82.5
350	A		USGS	9067200	8/11/2011	71.9
333	A		USGS	9067200	8/12/2011	65.6
316	A		USGS	9067200	8/13/2011	63.1
307	A		USGS	9067200	8/14/2011	62.8
334	A		USGS	9067200	8/15/2011	65.5
312	A		USGS	9067200	8/16/2011	63.2
287	A		USGS	9067200	8/17/2011	57.1
277	A		USGS	9067200	8/18/2011	55
261	A		USGS	9067200	8/19/2011	53.1
253	A		USGS	9067200	8/20/2011	50
235	A		USGS	9067200	8/21/2011	44.9
250	A		USGS	9067200	8/22/2011	41.4
238	A		USGS	9067200	8/23/2011	40
218	A		USGS	9067200	8/24/2011	40.7
213	A		USGS	9067200	8/25/2011	38.1
235	A		USGS	9067200	8/26/2011	40.3
266	A		USGS	9067200	8/27/2011	51.3
248	A		USGS	9067200	8/28/2011	47.2
268	A		USGS	9067200	8/29/2011	63.6
260	A		USGS	9067200	8/30/2011	55.5
231	A		USGS	9067200	8/31/2011	49.4
212	A		USGS	9067200	9/1/2011	45.4
198	A		USGS	9067200	9/2/2011	42.9
196	A		USGS	9067200	9/3/2011	41.6
181	A		USGS	9067200	9/4/2011	38.3
173	A		USGS	9067200	9/5/2011	35.6
179	A		USGS	9067200	9/6/2011	37.9
242	A		USGS	9067200	9/7/2011	52
243	A		USGS	9067200	9/8/2011	52.7
207	A		USGS	9067200	9/9/2011	45.6
181	A		USGS	9067200	9/10/2011	40.9
165	A		USGS	9067200	9/11/2011	37.8

161	A		USGS	9067200	9/12/2011	34.7
156	A		USGS	9067200	9/13/2011	31.3
151	A		USGS	9067200	9/14/2011	30.4
180	A		USGS	9067200	9/15/2011	39.2
206	A		USGS	9067200	9/16/2011	48.1
192	A		USGS	9067200	9/17/2011	46.4
215	A		USGS	9067200	9/18/2011	53.1
184	A		USGS	9067200	9/19/2011	45.5
163	A		USGS	9067200	9/20/2011	40.7
149	A		USGS	9067200	9/21/2011	35.5
139	A		USGS	9067200	9/22/2011	31.3
131	A		USGS	9067200	9/23/2011	27.7
125	A		USGS	9067200	9/24/2011	27.9
119	A		USGS	9067200	9/25/2011	28.1
119	A		USGS	9067200	9/26/2011	27.3
119	A		USGS	9067200	9/27/2011	24.9
126	A		USGS	9067200	9/28/2011	24.7
125	A		USGS	9067200	9/29/2011	22.3
125	A		USGS	9067200	9/30/2011	21.2
127	A		USGS	9067200	10/1/2011	20.8
128	A		USGS	9067200	10/2/2011	21.3
132	A		USGS	9067200	10/3/2011	19.6
127	A		USGS	9067200	10/4/2011	21.9
143	A		USGS	9067200	10/5/2011	26.5
152	A		USGS	9067200	10/6/2011	25.8
155	A		USGS	9067200	10/7/2011	27.9
148	A		USGS	9067200	10/8/2011	24.5
141	A		USGS	9067200	10/9/2011	25.2
137	A		USGS	9067200	10/10/2011	26.5
132	A		USGS	9067200	10/11/2011	26.9
132	A		USGS	9067200	10/12/2011	24
125	A		USGS	9067200	10/13/2011	26
124	A		USGS	9067200	10/14/2011	26.9
122	A		USGS	9067200	10/15/2011	26.6
122	A		USGS	9067200	10/16/2011	26
138	A		USGS	9067200	10/17/2011	28.9
138	A		USGS	9067200	10/18/2011	29.3
123	A		USGS	9067200	10/19/2011	27.1
125	A		USGS	9067200	10/20/2011	27.5
122	A		USGS	9067200	10/21/2011	26.6
119	A		USGS	9067200	10/22/2011	26.2
111	A		USGS	9067200	10/23/2011	26.9
110	A		USGS	9067200	10/24/2011	29.2
115	A		USGS	9067200	10/25/2011	29.7
145	A:e		USGS	9067200	10/26/2011	33.7
120	A		USGS	9067200	10/27/2011	31
108	A		USGS	9067200	10/28/2011	28.8

111	A		USGS	9067200	10/29/2011	29.1
113	A		USGS	9067200	10/30/2011	30.3
117	A		USGS	9067200	10/31/2011	30
122	A		USGS	9067200	11/1/2011	30.9
120	A		USGS	9067200	11/2/2011	33.5
89.7	A		USGS	9067200	11/3/2011	27
113	A		USGS	9067200	11/4/2011	33.3
122	A		USGS	9067200	11/5/2011	32.4
103	A		USGS	9067200	11/6/2011	29.5
92.7	A		USGS	9067200	11/7/2011	27.4
98.6	A		USGS	9067200	11/8/2011	28.3
84.4	A		USGS	9067200	11/9/2011	23.1
78.6	A		USGS	9067200	11/10/2011	22.8
83.2	A		USGS	9067200	11/11/2011	23.9
96.3	A		USGS	9067200	11/12/2011	26.8
97.3	A		USGS	9067200	11/13/2011	25.5
96.8	A		USGS	9067200	11/14/2011	25
97.3	A		USGS	9067200	11/15/2011	24
85.3	A		USGS	9067200	11/16/2011	22
79.1	A		USGS	9067200	11/17/2011	20.8
88.6	A		USGS	9067200	11/18/2011	23.9
90	A		USGS	9067200	11/19/2011	23.9
87.8	A		USGS	9067200	11/20/2011	23
84.4	A		USGS	9067200	11/21/2011	22.1
86.5	A		USGS	9067200	11/22/2011	24.8
82.6	A		USGS	9067200	11/23/2011	22.8
81.8	A		USGS	9067200	11/24/2011	22.8
86.6	A		USGS	9067200	11/25/2011	23
71.4	A		USGS	9067200	11/26/2011	19.8
58	A		USGS	9067200	11/27/2011	17.6
75.9	A		USGS	9067200	11/28/2011	20.8
82.3	A		USGS	9067200	11/29/2011	19
71.4	A		USGS	9067200	11/30/2011	15
76.2	A		USGS	9067200	12/1/2011	15.6
64.6	A		USGS	9067200	12/2/2011	15.4
74.4	A		USGS	9067200	12/3/2011	15.9
66.5	A		USGS	9067200	12/4/2011	15
51	A		USGS	9067200	12/5/2011	12.8
43.5	A		USGS	9067200	12/6/2011	12.3
49.5	A		USGS	9067200	12/7/2011	14.9
61.9	A		USGS	9067200	12/8/2011	16.9
61.2	A		USGS	9067200	12/9/2011	16
63.1	A		USGS	9067200	12/10/2011	14.5
64	A		USGS	9067200	12/11/2011	13.8
63.2	A		USGS	9067200	12/12/2011	13.6
71.3	A		USGS	9067200	12/13/2011	13.8
69.3	A		USGS	9067200	12/14/2011	13.5

67.4	A		USGS	9067200	12/15/2011	13.2
65.6	A		USGS	9067200	12/16/2011	12.7
63.3	A		USGS	9067200	12/17/2011	12.2
65.6	A		USGS	9067200	12/18/2011	12.5
69	A		USGS	9067200	12/19/2011	12.6
68.7	A		USGS	9067200	12/20/2011	12.2
63.3	A		USGS	9067200	12/21/2011	11.9
64.7	A		USGS	9067200	12/22/2011	11.9
51.3	A		USGS	9067200	12/23/2011	10.8
56.9	A		USGS	9067200	12/24/2011	11.5
64	A		USGS	9067200	12/25/2011	11.2
66	A		USGS	9067200	12/26/2011	11.1
63.7	A		USGS	9067200	12/27/2011	11
62.2	A		USGS	9067200	12/28/2011	10.9
68.8	A		USGS	9067200	12/29/2011	11.2
71.5	A		USGS	9067200	12/30/2011	11.2
71.3	A		USGS	9067200	12/31/2011	10.7
67.4	A		USGS	9067200	1/1/2012	9.78
73.9	A		USGS	9067200	1/2/2012	10.2
72.9	A		USGS	9067200	1/3/2012	10.1
66.1	A		USGS	9067200	1/4/2012	9.92
65.2	A		USGS	9067200	1/5/2012	9.89
65.7	A		USGS	9067200	1/6/2012	9.96
66.1	A		USGS	9067200	1/7/2012	10.1
65.6	A		USGS	9067200	1/8/2012	10
59.5	A		USGS	9067200	1/9/2012	9.84
60.6	A		USGS	9067200	1/10/2012	9.94
61.8	A		USGS	9067200	1/11/2012	9.71
50.4	A		USGS	9067200	1/12/2012	9.54
62.9	A		USGS	9067200	1/13/2012	9.65
63.1	A		USGS	9067200	1/14/2012	9.14
64.9	A		USGS	9067200	1/15/2012	9.13
66.4	A		USGS	9067200	1/16/2012	9.43
58.9	A		USGS	9067200	1/17/2012	9.09
64.4	A		USGS	9067200	1/18/2012	9.38
70.4	A		USGS	9067200	1/19/2012	9.59
71.1	A		USGS	9067200	1/20/2012	9.57
69	A		USGS	9067200	1/21/2012	9.34
71.7	A		USGS	9067200	1/22/2012	9.44
66.8	A		USGS	9067200	1/23/2012	9.21
71.8	A		USGS	9067200	1/24/2012	9.6
69.1	A		USGS	9067200	1/25/2012	9.35
68.7	A		USGS	9067200	1/26/2012	9.27
71.4	A		USGS	9067200	1/27/2012	9.41
61.7	A		USGS	9067200	1/28/2012	9
70.8	A		USGS	9067200	1/29/2012	9.79
71	A		USGS	9067200	1/30/2012	9.42

69	A		USGS	9067200	1/31/2012	9.13
66.3	A		USGS	9067200	2/1/2012	8.84
67.9	A		USGS	9067200	2/2/2012	8.84
66.1	A		USGS	9067200	2/3/2012	8.61
62.6	A		USGS	9067200	2/4/2012	8.25
61.6	A		USGS	9067200	2/5/2012	8.15
66.5	A		USGS	9067200	2/6/2012	8.24
64.3	A		USGS	9067200	2/7/2012	8.09
61.8	A		USGS	9067200	2/8/2012	7.84
67.2	A		USGS	9067200	2/9/2012	8.13
63.8	A		USGS	9067200	2/10/2012	7.99
66.3	A		USGS	9067200	2/11/2012	8.24
64.9	A		USGS	9067200	2/12/2012	8.16
65	A		USGS	9067200	2/13/2012	8.15
64.7	A		USGS	9067200	2/14/2012	8.09
64.5	A		USGS	9067200	2/15/2012	8.06
63.5	A		USGS	9067200	2/16/2012	8.09
61.3	A		USGS	9067200	2/17/2012	7.77
64.5	A		USGS	9067200	2/18/2012	7.83
62.2	A		USGS	9067200	2/19/2012	7.72
64	A		USGS	9067200	2/20/2012	7.88
60.9	A		USGS	9067200	2/21/2012	7.71
63.1	A		USGS	9067200	2/22/2012	7.8
61.7	A		USGS	9067200	2/23/2012	7.79
59.4	A		USGS	9067200	2/24/2012	7.66
63.2	A		USGS	9067200	2/25/2012	8.18
63	A		USGS	9067200	2/26/2012	7.65
59.9	A		USGS	9067200	2/27/2012	8.06
65	A		USGS	9067200	2/28/2012	8.07
63.1	A		USGS	9067200	2/29/2012	7.86
63.4	A		USGS	9067200	3/1/2012	8.28
63.8	A		USGS	9067200	3/2/2012	7.66
64.3	A		USGS	9067200	3/3/2012	9.04
68	A		USGS	9067200	3/4/2012	8.47
67.1	A		USGS	9067200	3/5/2012	8.34
69.1	A		USGS	9067200	3/6/2012	8.54
66.9	A		USGS	9067200	3/7/2012	8.27
63.4	A		USGS	9067200	3/8/2012	8.07
64.8	A		USGS	9067200	3/9/2012	8.11
69.1	A		USGS	9067200	3/10/2012	8.48
73.9	A		USGS	9067200	3/11/2012	8.87
75.1	A		USGS	9067200	3/12/2012	9.49
78.1	A		USGS	9067200	3/13/2012	10.4
85.1	A		USGS	9067200	3/14/2012	10.8
89.5	A		USGS	9067200	3/15/2012	11.3
108	A		USGS	9067200	3/16/2012	11.9
118	A		USGS	9067200	3/17/2012	12.6

119	A		USGS	9067200	3/18/2012	12.6
101	A		USGS	9067200	3/19/2012	11
89.8	A		USGS	9067200	3/20/2012	10.4
83.6	A		USGS	9067200	3/21/2012	10.1
85.3	A		USGS	9067200	3/22/2012	10.7
102	A		USGS	9067200	3/23/2012	12.1
131	A		USGS	9067200	3/24/2012	13.4
158	A		USGS	9067200	3/25/2012	15.6
189	A		USGS	9067200	3/26/2012	17.7
200	A		USGS	9067200	3/27/2012	17.7
197	A		USGS	9067200	3/28/2012	18.1
212	A		USGS	9067200	3/29/2012	18.8
228	A		USGS	9067200	3/30/2012	21.9
249	A		USGS	9067200	3/31/2012	25
287	A		USGS	9067200	4/1/2012	30
316	A		USGS	9067200	4/2/2012	35.7
260	A		USGS	9067200	4/3/2012	31.5
229	A		USGS	9067200	4/4/2012	24.5
240	A		USGS	9067200	4/5/2012	22.4
235	A		USGS	9067200	4/6/2012	20.5
230	A		USGS	9067200	4/7/2012	20.1
222	A		USGS	9067200	4/8/2012	20.9
237	A		USGS	9067200	4/9/2012	23.7
297	A		USGS	9067200	4/10/2012	31.3
332	A		USGS	9067200	4/11/2012	41.3
369	A		USGS	9067200	4/12/2012	50.2
334	A		USGS	9067200	4/13/2012	38.9
281	A		USGS	9067200	4/14/2012	31.7
259	A		USGS	9067200	4/15/2012	26.3
235	A		USGS	9067200	4/16/2012	24.7
216	A		USGS	9067200	4/17/2012	23.1
223	A		USGS	9067200	4/18/2012	22
259	A		USGS	9067200	4/19/2012	27.7
240	A		USGS	9067200	4/20/2012	24.4
250	A		USGS	9067200	4/21/2012	24.7
305	A		USGS	9067200	4/22/2012	33.4
363	A		USGS	9067200	4/23/2012	49.9
464	A		USGS	9067200	4/24/2012	72
511	A		USGS	9067200	4/25/2012	75
546	A		USGS	9067200	4/26/2012	85.8
700	A		USGS	9067200	4/27/2012	108
487	A		USGS	9067200	4/28/2012	65.6
401	A		USGS	9067200	4/29/2012	42
370	A		USGS	9067200	4/30/2012	32
383	A		USGS	9067200	5/1/2012	33.4
384	A		USGS	9067200	5/2/2012	31.4
414	A		USGS	9067200	5/3/2012	35.7

546	A		USGS	9067200	5/4/2012	55.8
734	A		USGS	9067200	5/5/2012	75.3
749	A		USGS	9067200	5/6/2012	77.6
563	A		USGS	9067200	5/7/2012	59.8
464	A		USGS	9067200	5/8/2012	48.6
468	A		USGS	9067200	5/9/2012	51.7
588	A		USGS	9067200	5/10/2012	63.6
662	A		USGS	9067200	5/11/2012	63.3
587	A		USGS	9067200	5/12/2012	59.8
554	A		USGS	9067200	5/13/2012	57
473	A		USGS	9067200	5/14/2012	47.6
594	A		USGS	9067200	5/15/2012	66
742	A		USGS	9067200	5/16/2012	96.6
696	A		USGS	9067200	5/17/2012	91.2
721	A		USGS	9067200	5/18/2012	92
711	A		USGS	9067200	5/19/2012	94.2
605	A		USGS	9067200	5/20/2012	74.2
615	A		USGS	9067200	5/21/2012	78.7
793	A		USGS	9067200	5/22/2012	120
917	A		USGS	9067200	5/23/2012	137
800	A		USGS	9067200	5/24/2012	99
653	A		USGS	9067200	5/25/2012	75.3
680	A		USGS	9067200	5/26/2012	86.7
750	A		USGS	9067200	5/27/2012	95.4
604	A		USGS	9067200	5/28/2012	73.1
605	A		USGS	9067200	5/29/2012	78.3
669	A		USGS	9067200	5/30/2012	96.3
680	A		USGS	9067200	5/31/2012	106
738	A		USGS	9067200	6/1/2012	119
796	A		USGS	9067200	6/2/2012	130
697	A		USGS	9067200	6/3/2012	115
738	A		USGS	9067200	6/4/2012	122
717	A		USGS	9067200	6/5/2012	123
700	A		USGS	9067200	6/6/2012	120
659	A		USGS	9067200	6/7/2012	117
625	A		USGS	9067200	6/8/2012	110
594	A		USGS	9067200	6/9/2012	103
552	A		USGS	9067200	6/10/2012	93.3
454	A		USGS	9067200	6/11/2012	71.2
416	A		USGS	9067200	6/12/2012	63.8
398	A		USGS	9067200	6/13/2012	60.2
398	A		USGS	9067200	6/14/2012	64.2
377	A		USGS	9067200	6/15/2012	54.7
361	A		USGS	9067200	6/16/2012	55.1
356	A		USGS	9067200	6/17/2012	54.2
359	A		USGS	9067200	6/18/2012	58.6
339	A		USGS	9067200	6/19/2012	54.2

318	A		USGS	9067200	6/20/2012	52.3
293	A		USGS	9067200	6/21/2012	47.8
282	A		USGS	9067200	6/22/2012	46.1
277	A		USGS	9067200	6/23/2012	45.7
270	A		USGS	9067200	6/24/2012	45.3
256	A		USGS	9067200	6/25/2012	39.5
242	A		USGS	9067200	6/26/2012	37.2
239	A		USGS	9067200	6/27/2012	34.3
236	A		USGS	9067200	6/28/2012	29.6
238	A		USGS	9067200	6/29/2012	29.6
220	A		USGS	9067200	6/30/2012	26.8
203	A		USGS	9067200	7/1/2012	24.5
194	A		USGS	9067200	7/2/2012	22.4
185	A		USGS	9067200	7/3/2012	22
186	A		USGS	9067200	7/4/2012	22.3
193	A		USGS	9067200	7/5/2012	26
210	A		USGS	9067200	7/6/2012	59.2
305	A		USGS	9067200	7/7/2012	92.1
252	A		USGS	9067200	7/8/2012	110
203	A		USGS	9067200	7/9/2012	72.4
170	A		USGS	9067200	7/10/2012	57
149	A		USGS	9067200	7/11/2012	43.6
134	A		USGS	9067200	7/12/2012	36.3
122	A		USGS	9067200	7/13/2012	31.4
116	A		USGS	9067200	7/14/2012	29.1
145	A		USGS	9067200	7/15/2012	38.3
147	A		USGS	9067200	7/16/2012	33.4
187	A		USGS	9067200	7/17/2012	65.9
144	A		USGS	9067200	7/18/2012	47.5
129	A		USGS	9067200	7/19/2012	41.6
124	A		USGS	9067200	7/20/2012	36.4
125	A		USGS	9067200	7/21/2012	43.2
136	A		USGS	9067200	7/22/2012	38.7
134	A		USGS	9067200	7/23/2012	44.7
135	A		USGS	9067200	7/24/2012	70.9
160	A		USGS	9067200	7/25/2012	96.3
136	A		USGS	9067200	7/26/2012	67.7
119	A		USGS	9067200	7/27/2012	54.9
147	A		USGS	9067200	7/28/2012	72.4
141	A		USGS	9067200	7/29/2012	61.3
148	A		USGS	9067200	7/30/2012	52
133	A		USGS	9067200	7/31/2012	50.1
116	A		USGS	9067200	8/1/2012	47.8
111	A		USGS	9067200	8/2/2012	40.1
104	A		USGS	9067200	8/3/2012	30.5
94.3	A		USGS	9067200	8/4/2012	25.3
84.9	A		USGS	9067200	8/5/2012	21.4

81.9	A		USGS	9067200	8/6/2012	19.8
121	A		USGS	9067200	8/7/2012	32.7
107	A		USGS	9067200	8/8/2012	24.1
88.6	A		USGS	9067200	8/9/2012	19.5
82.7	A		USGS	9067200	8/10/2012	17.9
85.9	A		USGS	9067200	8/11/2012	21.1
87.9	A		USGS	9067200	8/12/2012	20.5
106	A		USGS	9067200	8/13/2012	30.3
204	A		USGS	9067200	8/14/2012	71
138	A		USGS	9067200	8/15/2012	44.9
113	A		USGS	9067200	8/16/2012	34.9
98.2	A		USGS	9067200	8/17/2012	28.2
92.4	A		USGS	9067200	8/18/2012	25.9
85.9	A		USGS	9067200	8/19/2012	21.9
82.8	A		USGS	9067200	8/20/2012	21.6
83.9	A		USGS	9067200	8/21/2012	20.1
77.4	A		USGS	9067200	8/22/2012	19.8
90	A		USGS	9067200	8/23/2012	23.8
132	A		USGS	9067200	8/24/2012	40.3
117	A		USGS	9067200	8/25/2012	37.5
97	A		USGS	9067200	8/26/2012	31.7
88	A		USGS	9067200	8/27/2012	27.5
95.7	A		USGS	9067200	8/28/2012	22.2
94	A		USGS	9067200	8/29/2012	20
88.2	A		USGS	9067200	8/30/2012	18.4
97.9	A		USGS	9067200	8/31/2012	17.5
93.3	A		USGS	9067200	9/1/2012	14.9
86.7	A		USGS	9067200	9/2/2012	14.6
86	A		USGS	9067200	9/3/2012	13.9
77.3	A		USGS	9067200	9/4/2012	13.5
69.8	A		USGS	9067200	9/5/2012	13.1
66.6	A		USGS	9067200	9/6/2012	12.8
69.9	A		USGS	9067200	9/7/2012	14.2
76.3	A		USGS	9067200	9/8/2012	15
68.2	A		USGS	9067200	9/9/2012	13.9
66.4	A		USGS	9067200	9/10/2012	13.6
66.7	A:e		USGS	9067200	9/11/2012	13.3
89.9	A:e		USGS	9067200	9/12/2012	22.2
97.2	A:e		USGS	9067200	9/13/2012	19.3
82.5	A:e		USGS	9067200	9/14/2012	15.6
75.5	A:e		USGS	9067200	9/15/2012	14.2
68.1	A:e		USGS	9067200	9/16/2012	13.1
68.6	A:e		USGS	9067200	9/17/2012	13
74.1	A:e		USGS	9067200	9/18/2012	12.9
66.3	A:e		USGS	9067200	9/19/2012	12.2
63.6	A:e		USGS	9067200	9/20/2012	12.4
60.3	A:e		USGS	9067200	9/21/2012	12.2

59	A:e		USGS	9067200	9/22/2012	12.1
57.1	A:e		USGS	9067200	9/23/2012	12.1
57.9	A:e		USGS	9067200	9/24/2012	12.2
69.9	A:e		USGS	9067200	9/25/2012	12.4
93.4	A:e		USGS	9067200	9/26/2012	16.2
95.6	A:e		USGS	9067200	9/27/2012	16.2
85.8	A:e		USGS	9067200	9/28/2012	16
79.2	A:e		USGS	9067200	9/29/2012	15.2
73.9	A:e		USGS	9067200	9/30/2012	14.7
70.9	A:e		USGS	9067200	10/1/2012	14
69	A:e		USGS	9067200	10/2/2012	14.4
66.1	A		USGS	9067200	10/3/2012	14
64.9	A		USGS	9067200	10/4/2012	12.6
63	A		USGS	9067200	10/5/2012	11.7
62.5	A		USGS	9067200	10/6/2012	11.2
58.3	A		USGS	9067200	10/7/2012	11.4
59.2	A		USGS	9067200	10/8/2012	13.1
59	A		USGS	9067200	10/9/2012	12.1
59.9	A		USGS	9067200	10/10/2012	10.6
59.8	A		USGS	9067200	10/11/2012	10.3
62.8	A		USGS	9067200	10/12/2012	14
82.3	A		USGS	9067200	10/13/2012	26.4
78.6	A		USGS	9067200	10/14/2012	27.9
77.1	A		USGS	9067200	10/15/2012	27.6
73.9	A		USGS	9067200	10/16/2012	24.9
84	A		USGS	9067200	10/17/2012	25
72.8	A		USGS	9067200	10/18/2012	22.1
67.9	A		USGS	9067200	10/19/2012	21.7
68.3	A		USGS	9067200	10/20/2012	20.6
66.9	A		USGS	9067200	10/21/2012	20.1
71	A		USGS	9067200	10/22/2012	19.9
70.9	A		USGS	9067200	10/23/2012	19.6
69.8	A		USGS	9067200	10/24/2012	19.3
67.5	A		USGS	9067200	10/25/2012	21
57.6	A		USGS	9067200	10/26/2012	20.6
57.3	A		USGS	9067200	10/27/2012	21.2
62.1	A		USGS	9067200	10/28/2012	22.4
64.2	A		USGS	9067200	10/29/2012	22.9
67.4	A		USGS	9067200	10/30/2012	24.6
65.8	A		USGS	9067200	10/31/2012	23.8
66.2	A		USGS	9067200	11/1/2012	23.5
68.1	A		USGS	9067200	11/2/2012	23
63.3	A		USGS	9067200	11/3/2012	21.6
59.7	A		USGS	9067200	11/4/2012	20.8
64.2	A		USGS	9067200	11/5/2012	20.4
62.6	A		USGS	9067200	11/6/2012	19.5
59.1	A		USGS	9067200	11/7/2012	18.7

58.4	A		USGS	9067200	11/8/2012	17.9
54.9	A		USGS	9067200	11/9/2012	18
56.4	A		USGS	9067200	11/10/2012	18.3
42.4	A		USGS	9067200	11/11/2012	14.3
35.8	A		USGS	9067200	11/12/2012	15
44.9	A		USGS	9067200	11/13/2012	16.9
48.5	A		USGS	9067200	11/14/2012	16.1
50.5	A		USGS	9067200	11/15/2012	16.2
48.5	A		USGS	9067200	11/16/2012	15.3
52.6	A		USGS	9067200	11/17/2012	16.1
52.2	A		USGS	9067200	11/18/2012	15.8
51.3	A		USGS	9067200	11/19/2012	15.2
53.4	A		USGS	9067200	11/20/2012	14.7
50.8	A		USGS	9067200	11/21/2012	14.9
46	A		USGS	9067200	11/22/2012	14.6
45	A		USGS	9067200	11/23/2012	14
41.3	A		USGS	9067200	11/24/2012	13.7
41	A		USGS	9067200	11/25/2012	13.5
43.6	A		USGS	9067200	11/26/2012	13
33.8	A		USGS	9067200	11/27/2012	10.7
35.3	A		USGS	9067200	11/28/2012	11.6
40.7	A		USGS	9067200	11/29/2012	12.1
41.7	A		USGS	9067200	11/30/2012	11.9
46.2	A		USGS	9067200	12/1/2012	11.9
43.3	A		USGS	9067200	12/2/2012	11.5
48.5	A		USGS	9067200	12/3/2012	11.5
35	A		USGS	9067200	12/4/2012	11.1
39.8	A		USGS	9067200	12/5/2012	11
47.6	A		USGS	9067200	12/6/2012	11.2
41.4	A		USGS	9067200	12/7/2012	11
38.5	A		USGS	9067200	12/8/2012	10.8
33	A		USGS	9067200	12/9/2012	9
24.6	A		USGS	9067200	12/10/2012	6.99
36.8	A		USGS	9067200	12/11/2012	10.3
36.2	A		USGS	9067200	12/12/2012	10.1
42.6	A		USGS	9067200	12/13/2012	11.1
41.4	A		USGS	9067200	12/14/2012	10.5
44.6	A		USGS	9067200	12/15/2012	11
45.9	A		USGS	9067200	12/16/2012	11
42.6	A		USGS	9067200	12/17/2012	10.6
41.2	A		USGS	9067200	12/18/2012	10.9
39.1	A		USGS	9067200	12/19/2012	10
23.2	A		USGS	9067200	12/20/2012	6.55
34.8	A		USGS	9067200	12/21/2012	9.76
36.9	A		USGS	9067200	12/22/2012	10.4
38.3	A		USGS	9067200	12/23/2012	10.7
39.3	A		USGS	9067200	12/24/2012	10.8

39.1	A		USGS	9067200	12/25/2012	10.7
38.5	A		USGS	9067200	12/26/2012	10.2
40.6	A		USGS	9067200	12/27/2012	10.1
37	A		USGS	9067200	12/28/2012	9.84
31.8	A		USGS	9067200	12/29/2012	9.15
34.6	A		USGS	9067200	12/30/2012	9.32
37	A		USGS	9067200	12/31/2012	9.28
38.1	A		USGS	9067200	1/1/2013	9.02
36.6	A		USGS	9067200	1/2/2013	8.67
30.7	A		USGS	9067200	1/3/2013	8.1
33.8	A		USGS	9067200	1/4/2013	8.01
34.8	A		USGS	9067200	1/5/2013	7.89
35.7	A		USGS	9067200	1/6/2013	7.77
38.9	A		USGS	9067200	1/7/2013	7.95
36.8	A		USGS	9067200	1/8/2013	7.92
36.5	A		USGS	9067200	1/9/2013	7.78
39.9	A		USGS	9067200	1/10/2013	7.81
41.3	A		USGS	9067200	1/11/2013	8.04
39	A		USGS	9067200	1/12/2013	7.5
36.9	A		USGS	9067200	1/13/2013	7.2
37.4	A		USGS	9067200	1/14/2013	7.2
37.3	A		USGS	9067200	1/15/2013	7.26
40.3	A		USGS	9067200	1/16/2013	7.43
39.9	A		USGS	9067200	1/17/2013	7.79
39.5	A		USGS	9067200	1/18/2013	7.69
40.8	A		USGS	9067200	1/19/2013	7.96
40.4	A		USGS	9067200	1/20/2013	7.85
39.3	A		USGS	9067200	1/21/2013	7.66
39.8	A		USGS	9067200	1/22/2013	7.74
39.7	A		USGS	9067200	1/23/2013	7.76
39.7	A		USGS	9067200	1/24/2013	7.73
41.8	A		USGS	9067200	1/25/2013	8.14
42.4	A		USGS	9067200	1/26/2013	8.26
43.5	A		USGS	9067200	1/27/2013	8.5
42.1	A		USGS	9067200	1/28/2013	8.23
41	A		USGS	9067200	1/29/2013	8.03
37.6	A		USGS	9067200	1/30/2013	7.31
43.9	A		USGS	9067200	1/31/2013	8.6
42	A		USGS	9067200	2/1/2013	8.18
41.2	A		USGS	9067200	2/2/2013	8.03
40.9	A		USGS	9067200	2/3/2013	7.96
41	A		USGS	9067200	2/4/2013	7.96
41.6	A		USGS	9067200	2/5/2013	8.09
42.3	A		USGS	9067200	2/6/2013	8.23
42.2	A		USGS	9067200	2/7/2013	8.24
41.1	A		USGS	9067200	2/8/2013	6.83
43.7	A		USGS	9067200	2/9/2013	7.24

41	A		USGS	9067200	2/10/2013	6.76
40	A		USGS	9067200	2/11/2013	6.61
38.2	A		USGS	9067200	2/12/2013	6.33
41	A		USGS	9067200	2/13/2013	6.76
41.4	A		USGS	9067200	2/14/2013	6.87
40.8	A		USGS	9067200	2/15/2013	6.76
42.3	A		USGS	9067200	2/16/2013	7.02
45.3	A		USGS	9067200	2/17/2013	7.5
43.4	A		USGS	9067200	2/18/2013	7.22
37.6	A		USGS	9067200	2/19/2013	6.29
41.5	A		USGS	9067200	2/20/2013	6.87
41	A		USGS	9067200	2/21/2013	6.83
41.3	A		USGS	9067200	2/22/2013	6.87
41.2	A		USGS	9067200	2/23/2013	6.79
43	A		USGS	9067200	2/24/2013	7.04
40.9	A		USGS	9067200	2/25/2013	6.6
41.3	A		USGS	9067200	2/26/2013	6.88
41.8	A		USGS	9067200	2/27/2013	6.73
40.5	A		USGS	9067200	2/28/2013	6.47
43.9	A		USGS	9067200	3/1/2013	6.77
43.9	A		USGS	9067200	3/2/2013	6.94
43.9	A		USGS	9067200	3/3/2013	6.87
46.2	A		USGS	9067200	3/4/2013	6.78
38.8	A		USGS	9067200	3/5/2013	6.06
45.4	A		USGS	9067200	3/6/2013	6.58
48.2	A		USGS	9067200	3/7/2013	7.11
49	A		USGS	9067200	3/8/2013	6.99
49.5	A		USGS	9067200	3/9/2013	6.92
45.1	A		USGS	9067200	3/10/2013	6.56
41.1	A		USGS	9067200	3/11/2013	6.7
46.5	A		USGS	9067200	3/12/2013	6.95
46	A		USGS	9067200	3/13/2013	7.17
50.2	A		USGS	9067200	3/14/2013	7.42
54.3	A		USGS	9067200	3/15/2013	7.95
58.7	A		USGS	9067200	3/16/2013	7.9
54.9	A		USGS	9067200	3/17/2013	7.44
49	A		USGS	9067200	3/18/2013	6.87
47.9	A		USGS	9067200	3/19/2013	6.98
43.7	A		USGS	9067200	3/20/2013	6.77
50.3	A		USGS	9067200	3/21/2013	7.24
45.8	A		USGS	9067200	3/22/2013	6.8
46.6	A		USGS	9067200	3/23/2013	6.84
41.9	A		USGS	9067200	3/24/2013	5.87
40.9	A		USGS	9067200	3/25/2013	6.15
47.3	A		USGS	9067200	3/26/2013	6.97
52.1	A		USGS	9067200	3/27/2013	7.55
50.8	A		USGS	9067200	3/28/2013	7.58

53.8	A		USGS	9067200	3/29/2013	7.89
58.2	A		USGS	9067200	3/30/2013	8.58
62	A		USGS	9067200	3/31/2013	8.9
67.6	A		USGS	9067200	4/1/2013	9.03
69.6	A		USGS	9067200	4/2/2013	8.67
67.6	A		USGS	9067200	4/3/2013	8.76
76.7	A		USGS	9067200	4/4/2013	9.39
90.9	A		USGS	9067200	4/5/2013	10
104	A		USGS	9067200	4/6/2013	10.5
103	A		USGS	9067200	4/7/2013	10.2
91.9	A		USGS	9067200	4/8/2013	9.84
97.6	A		USGS	9067200	4/9/2013	9.81
79.1	A		USGS	9067200	4/10/2013	8.88
76.4	A		USGS	9067200	4/11/2013	8.84
76.1	A		USGS	9067200	4/12/2013	8.85
72.5	A		USGS	9067200	4/13/2013	8.95
91.3	A		USGS	9067200	4/14/2013	11
84.7	A		USGS	9067200	4/15/2013	10.2
80.6	A		USGS	9067200	4/16/2013	10.9
93.5	A		USGS	9067200	4/17/2013	11.5
76.9	A		USGS	9067200	4/18/2013	9.83
73.8	A		USGS	9067200	4/19/2013	10.2
82.9	A		USGS	9067200	4/20/2013	10.9
84.2	A		USGS	9067200	4/21/2013	11.4
99.7	A		USGS	9067200	4/22/2013	11.8
104	A		USGS	9067200	4/23/2013	12.1
84.9	A		USGS	9067200	4/24/2013	10.9
89.6	A		USGS	9067200	4/25/2013	11.5
107	A		USGS	9067200	4/26/2013	12.5
137	A		USGS	9067200	4/27/2013	13.8
195	A		USGS	9067200	4/28/2013	15.7
298	A		USGS	9067200	4/29/2013	19.9
384	A		USGS	9067200	4/30/2013	24.9
394	A		USGS	9067200	5/1/2013	29.2
308	A		USGS	9067200	5/2/2013	26.2
273	A		USGS	9067200	5/3/2013	25.6
287	A		USGS	9067200	5/4/2013	26.8
298	A		USGS	9067200	5/5/2013	26.1
319	A		USGS	9067200	5/6/2013	26.9
355	A		USGS	9067200	5/7/2013	31.9
382	A		USGS	9067200	5/8/2013	34.6
358	A		USGS	9067200	5/9/2013	32.4
338	A		USGS	9067200	5/10/2013	31.3
356	A		USGS	9067200	5/11/2013	31.9
430	A		USGS	9067200	5/12/2013	35.2
627	A		USGS	9067200	5/13/2013	47
989	A		USGS	9067200	5/14/2013	87.8

1260	A		USGS	9067200	5/15/2013	134
1370	A		USGS	9067200	5/16/2013	142
1600	A		USGS	9067200	5/17/2013	164
1700	A		USGS	9067200	5/18/2013	180
1360	A		USGS	9067200	5/19/2013	142
1030	A		USGS	9067200	5/20/2013	105
834	A		USGS	9067200	5/21/2013	78
745	A		USGS	9067200	5/22/2013	64.6
929	A		USGS	9067200	5/23/2013	91.1
1390	A		USGS	9067200	5/24/2013	139
1700	A		USGS	9067200	5/25/2013	170
1860	A		USGS	9067200	5/26/2013	197
2050	A		USGS	9067200	5/27/2013	226
1890	A		USGS	9067200	5/28/2013	202
1580	A		USGS	9067200	5/29/2013	156
1210	A		USGS	9067200	5/30/2013	114
976	A		USGS	9067200	5/31/2013	87.4
869	A		USGS	9067200	6/1/2013	74.9
1030	A		USGS	9067200	6/2/2013	119
1520	A		USGS	9067200	6/3/2013	201
1790	A		USGS	9067200	6/4/2013	246
2010	A		USGS	9067200	6/5/2013	292
2220	A		USGS	9067200	6/6/2013	356
2120	A		USGS	9067200	6/7/2013	293
2120	A		USGS	9067200	6/8/2013	314
2330	A		USGS	9067200	6/9/2013	359
2480	A		USGS	9067200	6/10/2013	438
2470	A		USGS	9067200	6/11/2013	448
2310	A		USGS	9067200	6/12/2013	409
2100	A		USGS	9067200	6/13/2013	388
1940	A		USGS	9067200	6/14/2013	367
1800	A		USGS	9067200	6/15/2013	313
1510	A		USGS	9067200	6/16/2013	235
1310	A		USGS	9067200	6/17/2013	201
1220	A		USGS	9067200	6/18/2013	204
1190	A		USGS	9067200	6/19/2013	203
1110	A		USGS	9067200	6/20/2013	197
1010	A		USGS	9067200	6/21/2013	185
945	A		USGS	9067200	6/22/2013	174
850	A		USGS	9067200	6/23/2013	158
768	A		USGS	9067200	6/24/2013	145
694	A		USGS	9067200	6/25/2013	135
685	A		USGS	9067200	6/26/2013	140
670	A		USGS	9067200	6/27/2013	143
631	A		USGS	9067200	6/28/2013	139
585	A		USGS	9067200	6/29/2013	133
550	A		USGS	9067200	6/30/2013	126

516	A		USGS	9067200	7/1/2013	114
477	A		USGS	9067200	7/2/2013	105
440	A		USGS	9067200	7/3/2013	94.3
423	A		USGS	9067200	7/4/2013	87.9
392	A		USGS	9067200	7/5/2013	83.3
401	A		USGS	9067200	7/6/2013	94.9
379	A		USGS	9067200	7/7/2013	79.8
414	A		USGS	9067200	7/8/2013	82.5
374	A		USGS	9067200	7/9/2013	73.1
326	A		USGS	9067200	7/10/2013	63.9
297	A		USGS	9067200	7/11/2013	59.1
293	A		USGS	9067200	7/12/2013	61.5
310	A		USGS	9067200	7/13/2013	56.9
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320	A		USGS	9067200	7/15/2013	57.7
311	A		USGS	9067200	7/16/2013	52.5
280	A		USGS	9067200	7/17/2013	48.1
302	A		USGS	9067200	7/18/2013	78.9
411	A		USGS	9067200	7/19/2013	111
316	A		USGS	9067200	7/20/2013	59.9
270	A		USGS	9067200	7/21/2013	47.7
244	A		USGS	9067200	7/22/2013	41.4
202	A		USGS	9067200	7/23/2013	36.5
179	A		USGS	9067200	7/24/2013	33.3
186	A		USGS	9067200	7/25/2013	30.9
189	A		USGS	9067200	7/26/2013	29
170	A		USGS	9067200	7/27/2013	27.5
199	A		USGS	9067200	7/28/2013	31.2
248	A		USGS	9067200	7/29/2013	37.7
227	A		USGS	9067200	7/30/2013	33.3
190	A		USGS	9067200	7/31/2013	27.7
165	A		USGS	9067200	8/1/2013	27
156	A		USGS	9067200	8/2/2013	25.7
147	A		USGS	9067200	8/3/2013	26.5
145	A		USGS	9067200	8/4/2013	29
163	A		USGS	9067200	8/5/2013	30.4
168	A		USGS	9067200	8/6/2013	30.7
158	A		USGS	9067200	8/7/2013	35.2
155	A		USGS	9067200	8/8/2013	29.8
146	A		USGS	9067200	8/9/2013	26.5
143	A		USGS	9067200	8/10/2013	26
126	A		USGS	9067200	8/11/2013	23.9
117	A		USGS	9067200	8/12/2013	22
118	A		USGS	9067200	8/13/2013	19.9
122	A		USGS	9067200	8/14/2013	20.5
111	A		USGS	9067200	8/15/2013	19.3
99.3	A		USGS	9067200	8/16/2013	17.3

93	A		USGS	9067200	8/17/2013	16.3
87.9	A		USGS	9067200	8/18/2013	16.9
94.3	A		USGS	9067200	8/19/2013	17.3
83.7	A		USGS	9067200	8/20/2013	17.8
82.5	A		USGS	9067200	8/21/2013	17.6
84.4	A		USGS	9067200	8/22/2013	17.8
146	A		USGS	9067200	8/23/2013	19.3
156	A		USGS	9067200	8/24/2013	18.4
129	A		USGS	9067200	8/25/2013	17.1
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127	A		USGS	9067200	8/27/2013	16.9
111	A		USGS	9067200	8/28/2013	17.9
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141	A		USGS	9067200	8/30/2013	22.7
215	A		USGS	9067200	8/31/2013	27.5
206	A		USGS	9067200	9/1/2013	25.5
168	A		USGS	9067200	9/2/2013	23.8
136	A		USGS	9067200	9/3/2013	20.3
119	A		USGS	9067200	9/4/2013	17.4
124	A		USGS	9067200	9/5/2013	18.5
116	A		USGS	9067200	9/6/2013	18.7
126	A		USGS	9067200	9/7/2013	18.7
130	A		USGS	9067200	9/8/2013	23.5
137	A		USGS	9067200	9/9/2013	21.6
143	A		USGS	9067200	9/10/2013	31.7
133	A		USGS	9067200	9/11/2013	28.1
132	A		USGS	9067200	9/12/2013	29.8
253	A		USGS	9067200	9/13/2013	66.7
258	A		USGS	9067200	9/14/2013	64.8
214	A		USGS	9067200	9/15/2013	55.4
235	A		USGS	9067200	9/16/2013	53.5
196	A		USGS	9067200	9/17/2013	45.2
178	A		USGS	9067200	9/18/2013	44.7
244	A		USGS	9067200	9/19/2013	57.1
225	A		USGS	9067200	9/20/2013	47.1
185	A		USGS	9067200	9/21/2013	40.2
177	A		USGS	9067200	9/22/2013	40
317	A		USGS	9067200	9/23/2013	64.4
279	A		USGS	9067200	9/24/2013	59.1
265	A		USGS	9067200	9/25/2013	58.1
236	A		USGS	9067200	9/26/2013	54.2
223	A		USGS	9067200	9/27/2013	50.2
232	A		USGS	9067200	9/28/2013	49
228	A		USGS	9067200	9/29/2013	46.8
212	A		USGS	9067200	9/30/2013	43.1
207	A		USGS	9067200	10/1/2013	40.5
193	A		USGS	9067200	10/2/2013	37

181	A		USGS	9067200	10/3/2013	34.3
185	A		USGS	9067200	10/4/2013	35.2
183	A		USGS	9067200	10/5/2013	34.4
178	A		USGS	9067200	10/6/2013	33
190	A		USGS	9067200	10/7/2013	33.6
185	A		USGS	9067200	10/8/2013	33
173	A		USGS	9067200	10/9/2013	31.3
163	A		USGS	9067200	10/10/2013	30.3
161	A		USGS	9067200	10/11/2013	30.3
158	A		USGS	9067200	10/12/2013	29.8
155	A		USGS	9067200	10/13/2013	28.8
170	A		USGS	9067200	10/14/2013	29.4
168	A		USGS	9067200	10/15/2013	28.5
160	A		USGS	9067200	10/16/2013	28.3
140	A		USGS	9067200	10/17/2013	26.3
161	A		USGS	9067200	10/18/2013	28.3
136	A		USGS	9067200	10/19/2013	27
154	A		USGS	9067200	10/20/2013	27.5
145	A		USGS	9067200	10/21/2013	26.3
133	A		USGS	9067200	10/22/2013	25.4
134	A		USGS	9067200	10/23/2013	25.5
133	A		USGS	9067200	10/24/2013	24.9
134	A		USGS	9067200	10/25/2013	26.3
132	A		USGS	9067200	10/26/2013	25.6
132	A		USGS	9067200	10/27/2013	24.9
134	A		USGS	9067200	10/28/2013	24.8
128	A		USGS	9067200	10/29/2013	24
128	A		USGS	9067200	10/30/2013	24.5
118	A		USGS	9067200	10/31/2013	23.4
118	A		USGS	9067200	11/1/2013	23.1
105	A		USGS	9067200	11/2/2013	21.3
120	A		USGS	9067200	11/3/2013	23.5
121	A		USGS	9067200	11/4/2013	22.5
141	A		USGS	9067200	11/5/2013	21.3
117	A		USGS	9067200	11/6/2013	18.5
117	A		USGS	9067200	11/7/2013	21
115	A		USGS	9067200	11/8/2013	22.2
106	A		USGS	9067200	11/9/2013	20.8
101	A		USGS	9067200	11/10/2013	20.3
97	A		USGS	9067200	11/11/2013	19.8
98.1	A		USGS	9067200	11/12/2013	19.4
94	A		USGS	9067200	11/13/2013	19
103	A		USGS	9067200	11/14/2013	19.2
88.6	A		USGS	9067200	11/15/2013	18.5
99.7	A		USGS	9067200	11/16/2013	18.8
95.8	A		USGS	9067200	11/17/2013	18.3
89.1	A		USGS	9067200	11/18/2013	17.9

89.7	A		USGS	9067200	11/19/2013	17.8
104	A		USGS	9067200	11/20/2013	17.9
104	A		USGS	9067200	11/21/2013	17.9
94.6	A		USGS	9067200	11/22/2013	17.3
96.6	A		USGS	9067200	11/23/2013	17.5
96.3	A		USGS	9067200	11/24/2013	16.9
94.6	A		USGS	9067200	11/25/2013	16.7
85.5	A		USGS	9067200	11/26/2013	15.9
71.1	A		USGS	9067200	11/27/2013	14.2
80.6	A		USGS	9067200	11/28/2013	15.5
77.2	A		USGS	9067200	11/29/2013	15
69.5	A		USGS	9067200	11/30/2013	14.3
72.6	A		USGS	9067200	12/1/2013	14.7
87.1	A		USGS	9067200	12/2/2013	15.8
88	A		USGS	9067200	12/3/2013	15
82.3	A		USGS	9067200	12/4/2013	13.9
45.4	A:e		USGS	9067200	12/5/2013	9.44
52	A		USGS	9067200	12/6/2013	13.5
65.8	A		USGS	9067200	12/7/2013	15.5
75.2	A		USGS	9067200	12/8/2013	15.8
68.8	A		USGS	9067200	12/9/2013	14.4
63.4	A		USGS	9067200	12/10/2013	14
73.1	A		USGS	9067200	12/11/2013	14.1
68.9	A		USGS	9067200	12/12/2013	13.3
71.8	A		USGS	9067200	12/13/2013	13.3
78.7	A:e		USGS	9067200	12/14/2013	13.2
82	A:e		USGS	9067200	12/15/2013	13.1
83.6	A:e		USGS	9067200	12/16/2013	13.1
83.9	A:e		USGS	9067200	12/17/2013	12.9
86.1	A:e		USGS	9067200	12/18/2013	12.8
85.5	A:e		USGS	9067200	12/19/2013	12.7
76.2	A		USGS	9067200	12/20/2013	12.8
71.6	A		USGS	9067200	12/21/2013	12.8
70.4	A		USGS	9067200	12/22/2013	12.6
72.2	A		USGS	9067200	12/23/2013	12.4
72	A		USGS	9067200	12/24/2013	12.6
65.8	A		USGS	9067200	12/25/2013	11.9
63.5	A		USGS	9067200	12/26/2013	12.2
70	A		USGS	9067200	12/27/2013	12.3
72.6	A		USGS	9067200	12/28/2013	11.9
75.3	A		USGS	9067200	12/29/2013	11.9
69.8	A		USGS	9067200	12/30/2013	11.7
69.1	A		USGS	9067200	12/31/2013	11.7
74.4	A		USGS	9067200	1/1/2014	11.8
65.8	A		USGS	9067200	1/2/2014	11.5
71.6	A		USGS	9067200	1/3/2014	11.7
74.8	A		USGS	9067200	1/4/2014	11.9

62.3	A		USGS	9067200	1/5/2014	11.5
57.4	A		USGS	9067200	1/6/2014	11.3
68	A		USGS	9067200	1/7/2014	11.5
78.3	A		USGS	9067200	1/8/2014	11.8
73.1	A		USGS	9067200	1/9/2014	11.7
68	A		USGS	9067200	1/10/2014	11.8
69.5	A		USGS	9067200	1/11/2014	11.8
70.8	A		USGS	9067200	1/12/2014	12
68.4	A		USGS	9067200	1/13/2014	11.9
72	A:e		USGS	9067200	1/14/2014	12.2
69.1	A:e		USGS	9067200	1/15/2014	12
67.4	A:e		USGS	9067200	1/16/2014	11.7
66.5	A:e		USGS	9067200	1/17/2014	11.9
66.5	A:e		USGS	9067200	1/18/2014	11.3
67	A:e		USGS	9067200	1/19/2014	11.3
67	A:e		USGS	9067200	1/20/2014	11.3
61.9	A		USGS	9067200	1/21/2014	10.6
59.1	A		USGS	9067200	1/22/2014	10.7
67	A		USGS	9067200	1/23/2014	11
56.6	A		USGS	9067200	1/24/2014	10.2
65.4	A		USGS	9067200	1/25/2014	10.8
65.5	A		USGS	9067200	1/26/2014	10.5
66.2	A		USGS	9067200	1/27/2014	10.5
60	A		USGS	9067200	1/28/2014	10.2
61	A		USGS	9067200	1/29/2014	10.3
66.2	A		USGS	9067200	1/30/2014	11
66	A		USGS	9067200	1/31/2014	11.3
65.8	A		USGS	9067200	2/1/2014	11.4
64	A		USGS	9067200	2/2/2014	10.9
68.3	A		USGS	9067200	2/3/2014	11.5
71.9	A		USGS	9067200	2/4/2014	11.2
66.1	A		USGS	9067200	2/5/2014	10.7
67.2	A		USGS	9067200	2/6/2014	10.8
67.7	A		USGS	9067200	2/7/2014	10.8
67.9	A		USGS	9067200	2/8/2014	10.9
70.3	A		USGS	9067200	2/9/2014	11.1
72.6	A		USGS	9067200	2/10/2014	11.2
68	A		USGS	9067200	2/11/2014	11
71.2	A		USGS	9067200	2/12/2014	11.2
71.5	A		USGS	9067200	2/13/2014	11.2
72.2	A		USGS	9067200	2/14/2014	11.2
70.8	A		USGS	9067200	2/15/2014	11.2
71.8	A		USGS	9067200	2/16/2014	11.2
69	A		USGS	9067200	2/17/2014	11
70.2	A		USGS	9067200	2/18/2014	10.8
71.3	A		USGS	9067200	2/19/2014	10.9
62.9	A		USGS	9067200	2/20/2014	10.5

69.4	A		USGS	9067200	2/21/2014	10.6
70.4	A		USGS	9067200	2/22/2014	10.6
68.6	A		USGS	9067200	2/23/2014	10.6
67.9	A		USGS	9067200	2/24/2014	10.7
72.3	A		USGS	9067200	2/25/2014	10.7
74.8	A		USGS	9067200	2/26/2014	10.8
73.2	A		USGS	9067200	2/27/2014	10.6
73.8	A		USGS	9067200	2/28/2014	10.7
77.4	A		USGS	9067200	3/1/2014	11.2
76.3	A		USGS	9067200	3/2/2014	11.3
72.1	A		USGS	9067200	3/3/2014	11.5
70.6	A		USGS	9067200	3/4/2014	11.5
73.6	A		USGS	9067200	3/5/2014	11.5
71	A		USGS	9067200	3/6/2014	11.4
76.6	A		USGS	9067200	3/7/2014	11.5
72.8	A		USGS	9067200	3/8/2014	11.2
70.2	A		USGS	9067200	3/9/2014	11.4
76.7	A		USGS	9067200	3/10/2014	11.6
82.5	A		USGS	9067200	3/11/2014	11.5
72.6	A		USGS	9067200	3/12/2014	10.6
74.7	A		USGS	9067200	3/13/2014	11
78.7	A		USGS	9067200	3/14/2014	11.2
80.2	A		USGS	9067200	3/15/2014	10.9
78.5	A		USGS	9067200	3/16/2014	10.8
79.5	A		USGS	9067200	3/17/2014	10.8
80.8	A		USGS	9067200	3/18/2014	10.8
77.6	A		USGS	9067200	3/19/2014	10.7
76.3	A		USGS	9067200	3/20/2014	10.8
81.9	A		USGS	9067200	3/21/2014	11
93	A		USGS	9067200	3/22/2014	11.3
91.6	A		USGS	9067200	3/23/2014	10.4
93.8	A		USGS	9067200	3/24/2014	11.3
91.4	A		USGS	9067200	3/25/2014	11.6
102	A		USGS	9067200	3/26/2014	12.1
105	A		USGS	9067200	3/27/2014	12
99.9	A		USGS	9067200	3/28/2014	11.7
90.9	A		USGS	9067200	3/29/2014	11.9
97.9	A		USGS	9067200	3/30/2014	12.6
96.6	A		USGS	9067200	3/31/2014	12.5
96.4	A		USGS	9067200	4/1/2014	12.9
95.5	A		USGS	9067200	4/2/2014	12.8
95.9	A		USGS	9067200	4/3/2014	12.4
88.9	A		USGS	9067200	4/4/2014	12.2
94.8	A		USGS	9067200	4/5/2014	12.5
95	A		USGS	9067200	4/6/2014	12.6
98.5	A		USGS	9067200	4/7/2014	12.6
102	A		USGS	9067200	4/8/2014	13.9

142	A		USGS	9067200	4/9/2014	16.7
219	A		USGS	9067200	4/10/2014	19.4
310	A		USGS	9067200	4/11/2014	21.8
396	A		USGS	9067200	4/12/2014	23.3
405	A		USGS	9067200	4/13/2014	25.5
311	A		USGS	9067200	4/14/2014	21.8
270	A		USGS	9067200	4/15/2014	20.9
268	A		USGS	9067200	4/16/2014	20.6
273	A		USGS	9067200	4/17/2014	21.2
337	A		USGS	9067200	4/18/2014	22.9
437	A		USGS	9067200	4/19/2014	26.6
534	A		USGS	9067200	4/20/2014	30.9
651	A		USGS	9067200	4/21/2014	35.8
811	A		USGS	9067200	4/22/2014	43.3
843	A		USGS	9067200	4/23/2014	52.5
756	A		USGS	9067200	4/24/2014	51.2
790	A		USGS	9067200	4/25/2014	50.9
905	A		USGS	9067200	4/26/2014	58.6
881	A		USGS	9067200	4/27/2014	57.7
668	A		USGS	9067200	4/28/2014	47.8
529	A		USGS	9067200	4/29/2014	40.8
452	A		USGS	9067200	4/30/2014	36.1
397	A		USGS	9067200	5/1/2014	33
381	A		USGS	9067200	5/2/2014	31.1
435	A		USGS	9067200	5/3/2014	32.5
659	A		USGS	9067200	5/4/2014	47.4
971	A		USGS	9067200	5/5/2014	72.3
1140	A		USGS	9067200	5/6/2014	87.8
1230	A		USGS	9067200	5/7/2014	94.9
1170	A		USGS	9067200	5/8/2014	87
950	A		USGS	9067200	5/9/2014	70.7
798	A		USGS	9067200	5/10/2014	62.5
764	A		USGS	9067200	5/11/2014	63.8
658	A		USGS	9067200	5/12/2014	55.6
574	A		USGS	9067200	5/13/2014	50
536	A		USGS	9067200	5/14/2014	46
511	A		USGS	9067200	5/15/2014	43.4
510	A		USGS	9067200	5/16/2014	41.5
539	A		USGS	9067200	5/17/2014	40.4
695	A		USGS	9067200	5/18/2014	51.3
958	A		USGS	9067200	5/19/2014	81.3
1300	A		USGS	9067200	5/20/2014	117
1580	A		USGS	9067200	5/21/2014	138
1750	A		USGS	9067200	5/22/2014	135
1950	A		USGS	9067200	5/23/2014	163
2300	A		USGS	9067200	5/24/2014	227
2320	A		USGS	9067200	5/25/2014	213

1990	A		USGS	9067200	5/26/2014	191
2310	A		USGS	9067200	5/27/2014	276
2920	A		USGS	9067200	5/28/2014	406
3550	A		USGS	9067200	5/29/2014	532
4110	A		USGS	9067200	5/30/2014	600
3910	A		USGS	9067200	5/31/2014	559
3930	A		USGS	9067200	6/1/2014	559
3800	A		USGS	9067200	6/2/2014	507
3720	A		USGS	9067200	6/3/2014	506
3800	A		USGS	9067200	6/4/2014	531
3630	A		USGS	9067200	6/5/2014	472
3320	A		USGS	9067200	6/6/2014	421
3130	A		USGS	9067200	6/7/2014	373
3000	A		USGS	9067200	6/8/2014	360
2400	A		USGS	9067200	6/9/2014	247
2170	A		USGS	9067200	6/10/2014	219
2230	A		USGS	9067200	6/11/2014	259
2380	A		USGS	9067200	6/12/2014	326
2530	A		USGS	9067200	6/13/2014	365
2640	A		USGS	9067200	6/14/2014	401
2090	A		USGS	9067200	6/15/2014	305
1840	A		USGS	9067200	6/16/2014	262
1890	A		USGS	9067200	6/17/2014	304
1930	A		USGS	9067200	6/18/2014	332
1720	A		USGS	9067200	6/19/2014	287
1740	A		USGS	9067200	6/20/2014	315
1760	A		USGS	9067200	6/21/2014	322
1560	A		USGS	9067200	6/22/2014	268
1520	A		USGS	9067200	6/23/2014	262
1450	A		USGS	9067200	6/24/2014	246
1450	A		USGS	9067200	6/25/2014	265
1480	A		USGS	9067200	6/26/2014	272
1440	A		USGS	9067200	6/27/2014	256
1320	A		USGS	9067200	6/28/2014	221
1290	A		USGS	9067200	6/29/2014	240
1330	A		USGS	9067200	6/30/2014	266
1260	A		USGS	9067200	7/1/2014	250
1110	A		USGS	9067200	7/2/2014	206
1040	A		USGS	9067200	7/3/2014	189
974	A		USGS	9067200	7/4/2014	187
909	A		USGS	9067200	7/5/2014	172
843	A		USGS	9067200	7/6/2014	160
787	A		USGS	9067200	7/7/2014	150
761	A		USGS	9067200	7/8/2014	144
702	A		USGS	9067200	7/9/2014	140
668	A		USGS	9067200	7/10/2014	132
723	A		USGS	9067200	7/11/2014	187

704	A		USGS	9067200	7/12/2014	203
610	A		USGS	9067200	7/13/2014	151
540	A		USGS	9067200	7/14/2014	125
508	A		USGS	9067200	7/15/2014	122
535	A		USGS	9067200	7/16/2014	118
510	A		USGS	9067200	7/17/2014	110
440	A		USGS	9067200	7/18/2014	96.8
394	A		USGS	9067200	7/19/2014	86.4
366	A		USGS	9067200	7/20/2014	80.8
358	A		USGS	9067200	7/21/2014	74.3
337	A		USGS	9067200	7/22/2014	69.4
319	A		USGS	9067200	7/23/2014	69
325	A		USGS	9067200	7/24/2014	72.4
313	A		USGS	9067200	7/25/2014	67.5
309	A		USGS	9067200	7/26/2014	63.5
318	A		USGS	9067200	7/27/2014	59.4
286	A		USGS	9067200	7/28/2014	52.1
315	A		USGS	9067200	7/29/2014	71.4
325	A		USGS	9067200	7/30/2014	78.6
371	A		USGS	9067200	7/31/2014	87.3
334	A		USGS	9067200	8/1/2014	71.1
315	A		USGS	9067200	8/2/2014	66.8
269	A		USGS	9067200	8/3/2014	55.3
254	A		USGS	9067200	8/4/2014	56.7
284	A		USGS	9067200	8/5/2014	62.9
285	A		USGS	9067200	8/6/2014	63.5
259	A		USGS	9067200	8/7/2014	56.8
233	A		USGS	9067200	8/8/2014	51.8
214	A		USGS	9067200	8/9/2014	47.2
207	A		USGS	9067200	8/10/2014	43
204	A		USGS	9067200	8/11/2014	38.7
189	A		USGS	9067200	8/12/2014	36.6
175	A		USGS	9067200	8/13/2014	36.4
187	A		USGS	9067200	8/14/2014	37.9
193	A		USGS	9067200	8/15/2014	38.8
182	A		USGS	9067200	8/16/2014	37.1
164	A		USGS	9067200	8/17/2014	33.2
154	A		USGS	9067200	8/18/2014	29.3
147	A		USGS	9067200	8/19/2014	28.5
156	A		USGS	9067200	8/20/2014	33
157	A		USGS	9067200	8/21/2014	34.4
148	A		USGS	9067200	8/22/2014	33.1
157	A		USGS	9067200	8/23/2014	35.5
168	A		USGS	9067200	8/24/2014	40.7
150	A		USGS	9067200	8/25/2014	34.1
142	A		USGS	9067200	8/26/2014	31.3
193	A		USGS	9067200	8/27/2014	39.7

234	A		USGS	9067200	8/28/2014	65.3
247	A		USGS	9067200	8/29/2014	66.5
206	A		USGS	9067200	8/30/2014	49.3
187	A		USGS	9067200	8/31/2014	43
175	A		USGS	9067200	9/1/2014	36.9
152	A		USGS	9067200	9/2/2014	32.7
138	A		USGS	9067200	9/3/2014	30
130	A		USGS	9067200	9/4/2014	28
141	A		USGS	9067200	9/5/2014	28.1
139	A		USGS	9067200	9/6/2014	26.1
129	A		USGS	9067200	9/7/2014	24.1
128	A		USGS	9067200	9/8/2014	23.9
192	A		USGS	9067200	9/9/2014	53.8
438	A		USGS	9067200	9/10/2014	144
306	A		USGS	9067200	9/11/2014	79.5
229	A		USGS	9067200	9/12/2014	56.9
193	A		USGS	9067200	9/13/2014	45.2
174	A		USGS	9067200	9/14/2014	38.6
163	A		USGS	9067200	9/15/2014	34.5
149	A		USGS	9067200	9/16/2014	31
136	A		USGS	9067200	9/17/2014	28.8
128	A		USGS	9067200	9/18/2014	26.6
123	A		USGS	9067200	9/19/2014	25
117	A		USGS	9067200	9/20/2014	23.9
119	A		USGS	9067200	9/21/2014	23.1
164	A		USGS	9067200	9/22/2014	29.7
176	A		USGS	9067200	9/23/2014	35.3
147	A		USGS	9067200	9/24/2014	29.3
135	A		USGS	9067200	9/25/2014	26.3
127	A		USGS	9067200	9/26/2014	24.7
126	A		USGS	9067200	9/27/2014	23.8
129	A		USGS	9067200	9/28/2014	24
154	A		USGS	9067200	9/29/2014	32.5
189	A		USGS	9067200	9/30/2014	40.5
198	A		USGS	9067200	10/1/2014	40.1
195	A		USGS	9067200	10/2/2014	40.8
181	A		USGS	9067200	10/3/2014	37.9
171	A		USGS	9067200	10/4/2014	35.8
175	A		USGS	9067200	10/5/2014	35.7
177	A		USGS	9067200	10/6/2014	34.9
177	A		USGS	9067200	10/7/2014	34
173	A		USGS	9067200	10/8/2014	32.1
167	A		USGS	9067200	10/9/2014	30.7
177	A		USGS	9067200	10/10/2014	32.1
177	A		USGS	9067200	10/11/2014	32.1
185	A		USGS	9067200	10/12/2014	33.2
192	A		USGS	9067200	10/13/2014	33.1

176	A		USGS	9067200	10/14/2014	31.4
191	A		USGS	9067200	10/15/2014	33.3
189	A		USGS	9067200	10/16/2014	34.8
185	A		USGS	9067200	10/17/2014	36.8
174	A		USGS	9067200	10/18/2014	36.2
168	A		USGS	9067200	10/19/2014	36.9
165	A		USGS	9067200	10/20/2014	35.6
161	A		USGS	9067200	10/21/2014	34.1
184	A		USGS	9067200	10/22/2014	37.7
189	A		USGS	9067200	10/23/2014	36.5
174	A		USGS	9067200	10/24/2014	33.4
165	A		USGS	9067200	10/25/2014	31.9
160	A		USGS	9067200	10/26/2014	30.6
152	A		USGS	9067200	10/27/2014	30.1
135	A		USGS	9067200	10/28/2014	28
132	A		USGS	9067200	10/29/2014	27.1
136	A		USGS	9067200	10/30/2014	26.3
130	A		USGS	9067200	10/31/2014	25.6
131	A		USGS	9067200	11/1/2014	25.1
129	A		USGS	9067200	11/2/2014	25.1
129	A		USGS	9067200	11/3/2014	25.8
117	A		USGS	9067200	11/4/2014	23.6
111	A		USGS	9067200	11/5/2014	23.2
118	A		USGS	9067200	11/6/2014	23
121	A		USGS	9067200	11/7/2014	22.9
117	A		USGS	9067200	11/8/2014	22.4
109	A		USGS	9067200	11/9/2014	21
115	A		USGS	9067200	11/10/2014	22.3
92.9	A		USGS	9067200	11/11/2014	21.9
98.8	A		USGS	9067200	11/12/2014	22.3
83.2	A		USGS	9067200	11/13/2014	21.1
109	A		USGS	9067200	11/14/2014	25.3
120	A		USGS	9067200	11/15/2014	23.7
90.9	A		USGS	9067200	11/16/2014	18.8
88.7	A		USGS	9067200	11/17/2014	18.1
84	A		USGS	9067200	11/18/2014	19.8
99.1	A		USGS	9067200	11/19/2014	22.8
102	A		USGS	9067200	11/20/2014	21.9
106	A		USGS	9067200	11/21/2014	21.7
95.8	A		USGS	9067200	11/22/2014	20.8
99.9	A		USGS	9067200	11/23/2014	21.3
93.2	A		USGS	9067200	11/24/2014	20.8
97.7	A		USGS	9067200	11/25/2014	20.4
102	A		USGS	9067200	11/26/2014	20.6
104	A		USGS	9067200	11/27/2014	20
103	A		USGS	9067200	11/28/2014	19.6
96.7	A		USGS	9067200	11/29/2014	18.8

95.9	A		USGS	9067200	11/30/2014	18.5
92.9	A		USGS	9067200	12/1/2014	18.2
87.2	A		USGS	9067200	12/2/2014	17.6
88.9	A		USGS	9067200	12/3/2014	17.3
90.9	A		USGS	9067200	12/4/2014	17.1
92.3	A		USGS	9067200	12/5/2014	16.8
92.4	A		USGS	9067200	12/6/2014	16.1
93.7	A		USGS	9067200	12/7/2014	15.8
78.9	A		USGS	9067200	12/8/2014	15.1
73.1	A		USGS	9067200	12/9/2014	14.3
77.9	A		USGS	9067200	12/10/2014	14.4
80.1	A		USGS	9067200	12/11/2014	14.1
84.4	A		USGS	9067200	12/12/2014	14.2
98.2	A		USGS	9067200	12/13/2014	14.4
92.9	A		USGS	9067200	12/14/2014	15
83.3	A		USGS	9067200	12/15/2014	13.8
64.5	A		USGS	9067200	12/16/2014	12.1
94.5	A		USGS	9067200	12/17/2014	15.4
92.6	A		USGS	9067200	12/18/2014	14.5
86.8	A		USGS	9067200	12/19/2014	13.8
75.1	A		USGS	9067200	12/20/2014	13.2
89.1	A		USGS	9067200	12/21/2014	13.8
79.8	A		USGS	9067200	12/22/2014	13.7
79.8	A		USGS	9067200	12/23/2014	13.6
69.1	A		USGS	9067200	12/24/2014	11.5
89.7	A:e		USGS	9067200	12/25/2014	17.8
81.6	A:e		USGS	9067200	12/26/2014	15.2
80	A		USGS	9067200	12/27/2014	13.2
61.1	A:e		USGS	9067200	12/28/2014	13.2
78.2	A:e		USGS	9067200	12/29/2014	14.1
78.6	A		USGS	9067200	12/30/2014	13.4
68.1	A		USGS	9067200	12/31/2014	11.3
65.4	A:e		USGS	9067200	1/1/2015	13.4
71.7	A:e		USGS	9067200	1/2/2015	13.3
72.6	A:e		USGS	9067200	1/3/2015	13
76.4	A:e		USGS	9067200	1/4/2015	12.4
87.3	A		USGS	9067200	1/5/2015	12.2
92	A		USGS	9067200	1/6/2015	12.1
87.2	A		USGS	9067200	1/7/2015	11.7
86.4	A		USGS	9067200	1/8/2015	11.5
82.2	A		USGS	9067200	1/9/2015	11.3
83.4	A		USGS	9067200	1/10/2015	10.9
87.6	A		USGS	9067200	1/11/2015	11.3
84.7	A		USGS	9067200	1/12/2015	11.2
79.6	A		USGS	9067200	1/13/2015	11.3
71.6	A		USGS	9067200	1/14/2015	11.5
60.1	A		USGS	9067200	1/15/2015	10.6

75.1	A		USGS	9067200	1/16/2015	11.2
86.6	A		USGS	9067200	1/17/2015	11.3
75.4	A		USGS	9067200	1/18/2015	11
82.7	A		USGS	9067200	1/19/2015	11
80.6	A		USGS	9067200	1/20/2015	11.2
75.7	A		USGS	9067200	1/21/2015	10.9
62	A		USGS	9067200	1/22/2015	8.56
69.6	A		USGS	9067200	1/23/2015	10.7
81.5	A		USGS	9067200	1/24/2015	11.2
93.1	A		USGS	9067200	1/25/2015	11
82.4	A		USGS	9067200	1/26/2015	10.5
83.2	A		USGS	9067200	1/27/2015	10.4
83.5	A		USGS	9067200	1/28/2015	10.5
83.5	A		USGS	9067200	1/29/2015	10.6
83.3	A		USGS	9067200	1/30/2015	10.5
85.8	A		USGS	9067200	1/31/2015	10.7
80.5	A		USGS	9067200	2/1/2015	10.3
82.1	A		USGS	9067200	2/2/2015	10.3
84.8	A		USGS	9067200	2/3/2015	10.5
86.3	A		USGS	9067200	2/4/2015	11
86.6	A		USGS	9067200	2/5/2015	10.9
85	A		USGS	9067200	2/6/2015	11.3
87.7	A		USGS	9067200	2/7/2015	11
90.4	A		USGS	9067200	2/8/2015	11.2
87.4	A		USGS	9067200	2/9/2015	11.1
93.3	A		USGS	9067200	2/10/2015	11
89	A		USGS	9067200	2/11/2015	10.8
83.8	A		USGS	9067200	2/12/2015	10.4
88.3	A		USGS	9067200	2/13/2015	10.5
89.3	A		USGS	9067200	2/14/2015	10.5
92.5	A		USGS	9067200	2/15/2015	10.5
90.2	A		USGS	9067200	2/16/2015	10
80	A		USGS	9067200	2/17/2015	9.51
86.3	A		USGS	9067200	2/18/2015	10.3
86	A		USGS	9067200	2/19/2015	10.1
87.8	A		USGS	9067200	2/20/2015	9.92
86.2	A		USGS	9067200	2/21/2015	9.82
80.3	A		USGS	9067200	2/22/2015	9.53
77.1	A		USGS	9067200	2/23/2015	9.94
84.3	A		USGS	9067200	2/24/2015	9.71
86.3	A		USGS	9067200	2/25/2015	10.2
82.9	A		USGS	9067200	2/26/2015	9.79
83.9	A		USGS	9067200	2/27/2015	10.6
82.1	A		USGS	9067200	2/28/2015	9.82
89.5	A		USGS	9067200	3/1/2015	10.4
91.7	A		USGS	9067200	3/2/2015	10.9
88	A		USGS	9067200	3/3/2015	10.8

82.6	A		USGS	9067200	3/4/2015	9.75
74.9	A		USGS	9067200	3/5/2015	9.81
86.9	A		USGS	9067200	3/6/2015	11.2
87	A		USGS	9067200	3/7/2015	11
90.8	A		USGS	9067200	3/8/2015	10.9
90.9	A		USGS	9067200	3/9/2015	10.8
90.4	A		USGS	9067200	3/10/2015	10.7
92.2	A		USGS	9067200	3/11/2015	10.6
94.3	A		USGS	9067200	3/12/2015	10.4
94.1	A		USGS	9067200	3/13/2015	10.8
94.9	A		USGS	9067200	3/14/2015	10.9
104	A		USGS	9067200	3/15/2015	11.8
126	A		USGS	9067200	3/16/2015	13.5
162	A		USGS	9067200	3/17/2015	15.8
206	A		USGS	9067200	3/18/2015	19
214	A		USGS	9067200	3/19/2015	20.7
191	A		USGS	9067200	3/20/2015	19.3
199	A		USGS	9067200	3/21/2015	19.2
208	A		USGS	9067200	3/22/2015	19.2
221	A		USGS	9067200	3/23/2015	19.9
225	A		USGS	9067200	3/24/2015	19.8
210	A		USGS	9067200	3/25/2015	19.4
185	A		USGS	9067200	3/26/2015	18
191	A		USGS	9067200	3/27/2015	19.2
216	A		USGS	9067200	3/28/2015	20.3
275	A		USGS	9067200	3/29/2015	22.9
310	A		USGS	9067200	3/30/2015	24.8
339	A		USGS	9067200	3/31/2015	27.4
371	A		USGS	9067200	4/1/2015	29.8
344	A		USGS	9067200	4/2/2015	28.6
302	A		USGS	9067200	4/3/2015	26
271	A		USGS	9067200	4/4/2015	23.8
269	A		USGS	9067200	4/5/2015	23.7
284	A		USGS	9067200	4/6/2015	23.9
309	A		USGS	9067200	4/7/2015	25.4
327	A		USGS	9067200	4/8/2015	26.4
320	A		USGS	9067200	4/9/2015	25.8
304	A		USGS	9067200	4/10/2015	24.1
297	A		USGS	9067200	4/11/2015	23.6
305	A		USGS	9067200	4/12/2015	23.7
300	A		USGS	9067200	4/13/2015	23.5
342	A		USGS	9067200	4/14/2015	25.7
394	A		USGS	9067200	4/15/2015	32.2
381	A		USGS	9067200	4/16/2015	30.8
361	A		USGS	9067200	4/17/2015	29.8
330	A		USGS	9067200	4/18/2015	27.2
304	A		USGS	9067200	4/19/2015	26.2

288	A		USGS	9067200	4/20/2015	25
275	A		USGS	9067200	4/21/2015	23.4
282	A		USGS	9067200	4/22/2015	23.2
294	A		USGS	9067200	4/23/2015	23.1
306	A		USGS	9067200	4/24/2015	24.2
294	A		USGS	9067200	4/25/2015	23.6
307	A		USGS	9067200	4/26/2015	24.5
297	A		USGS	9067200	4/27/2015	23.6
301	A		USGS	9067200	4/28/2015	23.6
350	A		USGS	9067200	4/29/2015	28.2
452	A		USGS	9067200	4/30/2015	39.6
547	A		USGS	9067200	5/1/2015	53.9
599	A		USGS	9067200	5/2/2015	58.3
624	A		USGS	9067200	5/3/2015	58.4
650	A		USGS	9067200	5/4/2015	63.9
678	A		USGS	9067200	5/5/2015	68.8
926	A		USGS	9067200	5/6/2015	120
898	A		USGS	9067200	5/7/2015	104
825	A		USGS	9067200	5/8/2015	81.7
816	A		USGS	9067200	5/9/2015	77.9
777	A		USGS	9067200	5/10/2015	73
706	A		USGS	9067200	5/11/2015	63.6
687	A		USGS	9067200	5/12/2015	62.4
699	A		USGS	9067200	5/13/2015	64.3
703	A		USGS	9067200	5/14/2015	63.3
721	A		USGS	9067200	5/15/2015	63
679	A		USGS	9067200	5/16/2015	57.3
660	A		USGS	9067200	5/17/2015	52.3
631	A		USGS	9067200	5/18/2015	50
734	A		USGS	9067200	5/19/2015	58
718	A		USGS	9067200	5/20/2015	55
686	A		USGS	9067200	5/21/2015	52.8
725	A		USGS	9067200	5/22/2015	58.3
776	A		USGS	9067200	5/23/2015	63.1
767	A		USGS	9067200	5/24/2015	64.1
751	A		USGS	9067200	5/25/2015	59.3
760	A		USGS	9067200	5/26/2015	59
811	A		USGS	9067200	5/27/2015	67.6
945	A		USGS	9067200	5/28/2015	83.1
1030	A		USGS	9067200	5/29/2015	92.7
1020	A		USGS	9067200	5/30/2015	91.4
1260	A		USGS	9067200	5/31/2015	139
1670	A		USGS	9067200	6/1/2015	219
2020	A		USGS	9067200	6/2/2015	287
2380	A		USGS	9067200	6/3/2015	312
2370	A		USGS	9067200	6/4/2015	316
2400	A		USGS	9067200	6/5/2015	329

2400	A		USGS	9067200	6/6/2015	345
2240	A		USGS	9067200	6/7/2015	313
2170	A		USGS	9067200	6/8/2015	309
2330	A		USGS	9067200	6/9/2015	336
2530	A		USGS	9067200	6/10/2015	349
2780	A		USGS	9067200	6/11/2015	444
3260	A		USGS	9067200	6/12/2015	435
2870	A		USGS	9067200	6/13/2015	435
2830	A		USGS	9067200	6/14/2015	424
2570	A		USGS	9067200	6/15/2015	401
2650	A		USGS	9067200	6/16/2015	435
3440	A		USGS	9067200	6/17/2015	541
3160	A		USGS	9067200	6/18/2015	414
2800	A		USGS	9067200	6/19/2015	376
2740	A		USGS	9067200	6/20/2015	377
2570	A		USGS	9067200	6/21/2015	361
2350	A		USGS	9067200	6/22/2015	327
2120	A		USGS	9067200	6/23/2015	316
1930	A		USGS	9067200	6/24/2015	310
1710	A		USGS	9067200	6/25/2015	295
1560	A		USGS	9067200	6/26/2015	281
1440	A		USGS	9067200	6/27/2015	272
1300	A		USGS	9067200	6/28/2015	253
1200	A		USGS	9067200	6/29/2015	244
1150	A		USGS	9067200	6/30/2015	235
1090	A		USGS	9067200	7/1/2015	237
1120	A		USGS	9067200	7/2/2015	217
1030	A		USGS	9067200	7/3/2015	194
930	A		USGS	9067200	7/4/2015	178
889	A		USGS	9067200	7/5/2015	166
888	A		USGS	9067200	7/6/2015	169
805	A		USGS	9067200	7/7/2015	161
911	A		USGS	9067200	7/8/2015	229
894	A		USGS	9067200	7/9/2015	215
731	A		USGS	9067200	7/10/2015	169
673	A		USGS	9067200	7/11/2015	140
602	A		USGS	9067200	7/12/2015	124
600	A		USGS	9067200	7/13/2015	120
618	A		USGS	9067200	7/14/2015	122
723	A		USGS	9067200	7/15/2015	126
566	A		USGS	9067200	7/16/2015	105
503	A		USGS	9067200	7/17/2015	91.4
469	A		USGS	9067200	7/18/2015	87.3
489	A		USGS	9067200	7/19/2015	93.9
449	A		USGS	9067200	7/20/2015	81.4
622	A		USGS	9067200	7/21/2015	114
588	A		USGS	9067200	7/22/2015	111

480	A		USGS	9067200	7/23/2015	90.5
424	A		USGS	9067200	7/24/2015	81
441	A		USGS	9067200	7/25/2015	74.4
386	A		USGS	9067200	7/26/2015	68.4
351	A		USGS	9067200	7/27/2015	61
328	A		USGS	9067200	7/28/2015	58.1
293	A		USGS	9067200	7/29/2015	52
269	A		USGS	9067200	7/30/2015	46.6
255	A		USGS	9067200	7/31/2015	42.7
248	A		USGS	9067200	8/1/2015	40.7
249	A		USGS	9067200	8/2/2015	43
262	A		USGS	9067200	8/3/2015	49.7
245	A		USGS	9067200	8/4/2015	37.4
222	A		USGS	9067200	8/5/2015	32.3
208	A		USGS	9067200	8/6/2015	30.2
195	A		USGS	9067200	8/7/2015	29.7
194	A		USGS	9067200	8/8/2015	28.6
182	A		USGS	9067200	8/9/2015	26.9
173	A		USGS	9067200	8/10/2015	25.2
175	A		USGS	9067200	8/11/2015	25.9
219	A		USGS	9067200	8/12/2015	32.1
189	A		USGS	9067200	8/13/2015	29.1
181	A		USGS	9067200	8/14/2015	28.4
183	A		USGS	9067200	8/15/2015	26.6
202	A		USGS	9067200	8/16/2015	28.6
180	A		USGS	9067200	8/17/2015	27.1
166	A		USGS	9067200	8/18/2015	25.6
148	A		USGS	9067200	8/19/2015	23.8
138	A		USGS	9067200	8/20/2015	22
127	A		USGS	9067200	8/21/2015	21.4
121	A		USGS	9067200	8/22/2015	20.7
116	A		USGS	9067200	8/23/2015	20.3
110	A		USGS	9067200	8/24/2015	19.7
101	A		USGS	9067200	8/25/2015	18.4
98.3	A		USGS	9067200	8/26/2015	17.7
114	A		USGS	9067200	8/27/2015	18.9
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109	A		USGS	9067200	8/30/2015	17.2
116	A		USGS	9067200	8/31/2015	18.7
124	A		USGS	9067200	9/1/2015	19.4
114	A		USGS	9067200	9/2/2015	18.7
126	A		USGS	9067200	9/3/2015	19.8
156	A		USGS	9067200	9/4/2015	24.5
189	A		USGS	9067200	9/5/2015	48.3
155	A		USGS	9067200	9/6/2015	34.6
148	A		USGS	9067200	9/7/2015	32.9

150	A		USGS	9067200	9/8/2015	39.9
126	A		USGS	9067200	9/9/2015	30.4
113	A		USGS	9067200	9/10/2015	26
106	A		USGS	9067200	9/11/2015	22.4
100	A		USGS	9067200	9/12/2015	21
95	A		USGS	9067200	9/13/2015	20.5
93.1	A		USGS	9067200	9/14/2015	20.4
98	A		USGS	9067200	9/15/2015	23.9
106	A		USGS	9067200	9/16/2015	26.7
96.7	A		USGS	9067200	9/17/2015	22.9
90	A		USGS	9067200	9/18/2015	21.9
88.4	A		USGS	9067200	9/19/2015	21.3
83.4	A		USGS	9067200	9/20/2015	21.2
84.1	A		USGS	9067200	9/21/2015	19.9
84.3	A		USGS	9067200	9/22/2015	17.8
87.2	A		USGS	9067200	9/23/2015	16.7
86.6	A		USGS	9067200	9/24/2015	15.2
84.5	A		USGS	9067200	9/25/2015	14.9
84	A		USGS	9067200	9/26/2015	14.5
81	A		USGS	9067200	9/27/2015	14.2
83.2	A		USGS	9067200	9/28/2015	13.6
77.5	A		USGS	9067200	9/29/2015	13.8
78.7	A		USGS	9067200	9/30/2015	13.7
81.3	A		USGS	9067200	10/1/2015	13.5
78.9	A		USGS	9067200	10/2/2015	13.4
75.8	A		USGS	9067200	10/3/2015	14.6
75	A		USGS	9067200	10/4/2015	14.3
77.2	A		USGS	9067200	10/5/2015	13.6
91.6	A		USGS	9067200	10/6/2015	16.5
100	A		USGS	9067200	10/7/2015	18.7
89	A		USGS	9067200	10/8/2015	16.6
83.1	A		USGS	9067200	10/9/2015	15.3
79.4	A		USGS	9067200	10/10/2015	14.1
79.1	A		USGS	9067200	10/11/2015	14.4
76.4	A		USGS	9067200	10/12/2015	14.7
73	A		USGS	9067200	10/13/2015	13.6
73.4	A		USGS	9067200	10/14/2015	13.7
72.9	A		USGS	9067200	10/15/2015	14.1
72.2	A		USGS	9067200	10/16/2015	14.5
72.8	A		USGS	9067200	10/17/2015	14.9
70.4	A		USGS	9067200	10/18/2015	15.5
72.5	A		USGS	9067200	10/19/2015	16.3
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90.7	A		USGS	9067200	10/22/2015	19.7
115	A		USGS	9067200	10/23/2015	24.6
104	A		USGS	9067200	10/24/2015	22.7

94.7	A		USGS	9067200	10/25/2015	21
97.7	A		USGS	9067200	10/26/2015	21.9
95.8	A		USGS	9067200	10/27/2015	21.4
84.1	A		USGS	9067200	10/28/2015	19.5
92	A		USGS	9067200	10/29/2015	20.3
93.3	A		USGS	9067200	10/30/2015	19.7
85.8	A		USGS	9067200	10/31/2015	18.6
86.4	A		USGS	9067200	11/1/2015	18.2
87.1	A		USGS	9067200	11/2/2015	18.5
83.5	A		USGS	9067200	11/3/2015	19.7
92.7	A		USGS	9067200	11/4/2015	20.8
89.9	A		USGS	9067200	11/5/2015	20.4
81.6	A		USGS	9067200	11/6/2015	20.7
67.9	A		USGS	9067200	11/7/2015	19
72.1	A		USGS	9067200	11/8/2015	20.6
75.8	A		USGS	9067200	11/9/2015	20.5
78.4	A		USGS	9067200	11/10/2015	20.8
87.1	A		USGS	9067200	11/11/2015	20.9
63.5	A		USGS	9067200	11/12/2015	18.3
69.7	A		USGS	9067200	11/13/2015	18.9
69.2	A		USGS	9067200	11/14/2015	19.3
71.4	A		USGS	9067200	11/15/2015	18.6
77.4	A		USGS	9067200	11/16/2015	19.4
80.2	A		USGS	9067200	11/17/2015	19.2
79.5	A		USGS	9067200	11/18/2015	19.2
79.7	A		USGS	9067200	11/19/2015	18.8
83.4	A		USGS	9067200	11/20/2015	18.7
57.2	A		USGS	9067200	11/21/2015	15.1
60.1	A		USGS	9067200	11/22/2015	16.8
71.3	A		USGS	9067200	11/23/2015	17.6
73.8	A		USGS	9067200	11/24/2015	17.3
73.6	A		USGS	9067200	11/25/2015	17.1
79.1	A		USGS	9067200	11/26/2015	17
70.3	A		USGS	9067200	11/27/2015	16.4
66.7	A		USGS	9067200	11/28/2015	16.1
68.3	A		USGS	9067200	11/29/2015	15.9
67.1	A		USGS	9067200	11/30/2015	15.4
59.6	A		USGS	9067200	12/1/2015	14.4
51	A		USGS	9067200	12/2/2015	13.6
67	A		USGS	9067200	12/3/2015	16.1
66.8	A		USGS	9067200	12/4/2015	14.9
68.8	A		USGS	9067200	12/5/2015	15
59.8	A		USGS	9067200	12/6/2015	13.7
63.3	A		USGS	9067200	12/7/2015	14.6
70.2	A		USGS	9067200	12/8/2015	14.8
67.7	A		USGS	9067200	12/9/2015	14.2
69	A		USGS	9067200	12/10/2015	14.1

67.6	A		USGS	9067200	12/11/2015	14.2
68	A		USGS	9067200	12/12/2015	14.1
60	A		USGS	9067200	12/13/2015	13.3
57.2	A		USGS	9067200	12/14/2015	13.5
63.4	A		USGS	9067200	12/15/2015	13.9
57	A		USGS	9067200	12/16/2015	12.9
53.8	A		USGS	9067200	12/17/2015	12.7
58.2	A		USGS	9067200	12/18/2015	13.5
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68.3	A		USGS	9067200	12/22/2015	13.3
66.6	A		USGS	9067200	12/23/2015	13.2
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44.1	A		USGS	9067200	12/27/2015	10.7
53.8	A		USGS	9067200	12/28/2015	12.8
64.4	A		USGS	9067200	12/29/2015	13
65.9	A		USGS	9067200	12/30/2015	13.3
64.6	A		USGS	9067200	12/31/2015	12.4
59.7	A		USGS	9067200	1/1/2016	11.8
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66.3	A		USGS	9067200	1/3/2016	11.8
65.2	A		USGS	9067200	1/4/2016	11.8
64.1	A		USGS	9067200	1/5/2016	11.8
63.3	A		USGS	9067200	1/6/2016	11.9
64.9	A		USGS	9067200	1/7/2016	12
59.1	A		USGS	9067200	1/8/2016	11.6
62.4	A		USGS	9067200	1/9/2016	11.6
59.6	A		USGS	9067200	1/10/2016	11.2
53	A		USGS	9067200	1/11/2016	10.4
51.9	A		USGS	9067200	1/12/2016	10.3
61.3	A		USGS	9067200	1/13/2016	10.9
58.3	A		USGS	9067200	1/14/2016	11
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62.7	A		USGS	9067200	1/16/2016	10.8
63	A		USGS	9067200	1/17/2016	11.1
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62	A		USGS	9067200	1/19/2016	11.4
59.1	A		USGS	9067200	1/20/2016	11.2
60.4	A		USGS	9067200	1/21/2016	11
55.5	A		USGS	9067200	1/22/2016	10.8
62.3	A		USGS	9067200	1/23/2016	11
61.9	A		USGS	9067200	1/24/2016	10.9
62.1	A		USGS	9067200	1/25/2016	10.9
55.8	A		USGS	9067200	1/26/2016	10.7

55.3	A		USGS	9067200	1/27/2016	10.8
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66.1	A		USGS	9067200	1/29/2016	10.9
66.1	A		USGS	9067200	1/30/2016	11
64.2	A		USGS	9067200	1/31/2016	11.1
64.3	A		USGS	9067200	2/1/2016	11.2
62.1	A		USGS	9067200	2/2/2016	11.3
57.9	A		USGS	9067200	2/3/2016	11.1
50.7	A		USGS	9067200	2/4/2016	11
66.1	A		USGS	9067200	2/5/2016	11.5
58.8	A		USGS	9067200	2/6/2016	11
66.2	A		USGS	9067200	2/7/2016	10.9
63	A		USGS	9067200	2/8/2016	10.8
59.7	A		USGS	9067200	2/9/2016	10.6
59.9	A		USGS	9067200	2/10/2016	10.6
60.7	A		USGS	9067200	2/11/2016	10.5
61.9	A		USGS	9067200	2/12/2016	10.5
63.9	A		USGS	9067200	2/13/2016	10.5
62.5	A		USGS	9067200	2/14/2016	10.3
63.1	A		USGS	9067200	2/15/2016	10.3
63.5	A		USGS	9067200	2/16/2016	10.6
62	A		USGS	9067200	2/17/2016	10.6
67.5	A		USGS	9067200	2/18/2016	11.1
69.2	A		USGS	9067200	2/19/2016	11.1
65.5	A		USGS	9067200	2/20/2016	10.8
65.2	A		USGS	9067200	2/21/2016	10.9
65.5	A		USGS	9067200	2/22/2016	10.7
65.2	A		USGS	9067200	2/23/2016	10.5
57.8	A		USGS	9067200	2/24/2016	9.78
65.4	A		USGS	9067200	2/25/2016	10.4
67.8	A		USGS	9067200	2/26/2016	10.5
67.4	A		USGS	9067200	2/27/2016	10.5
68.3	A		USGS	9067200	2/28/2016	10.6
66.6	A		USGS	9067200	2/29/2016	10.5
66.9	A		USGS	9067200	3/1/2016	10.4
67.4	A		USGS	9067200	3/2/2016	10.6
65	A		USGS	9067200	3/3/2016	10.5
66.7	A		USGS	9067200	3/4/2016	10.7
68.3	A		USGS	9067200	3/5/2016	10.6
70.3	A		USGS	9067200	3/6/2016	10.7
72.5	A		USGS	9067200	3/7/2016	11
66.9	A		USGS	9067200	3/8/2016	10.6
64.2	A		USGS	9067200	3/9/2016	10.4
67	A		USGS	9067200	3/10/2016	10.7
70.5	A		USGS	9067200	3/11/2016	11.3
78.4	A		USGS	9067200	3/12/2016	11.7
79.6	A		USGS	9067200	3/13/2016	11.7

82	A		USGS	9067200	3/14/2016	11.9
77.6	A		USGS	9067200	3/15/2016	11.4
77.4	A		USGS	9067200	3/16/2016	11.6
76.9	A		USGS	9067200	3/17/2016	11.6
74.1	A		USGS	9067200	3/18/2016	11.6
67.6	A		USGS	9067200	3/19/2016	11
70.9	A		USGS	9067200	3/20/2016	11.2
80.7	A		USGS	9067200	3/21/2016	11.9
89.2	A		USGS	9067200	3/22/2016	12.7
93.3	A		USGS	9067200	3/23/2016	13
86.2	A		USGS	9067200	3/24/2016	12
85.5	A		USGS	9067200	3/25/2016	12.3
75.4	A		USGS	9067200	3/26/2016	11.1
78.4	A		USGS	9067200	3/27/2016	11.6
82	A		USGS	9067200	3/28/2016	12.1
87.6	A		USGS	9067200	3/29/2016	12.4
87.6	A		USGS	9067200	3/30/2016	12.1
85.8	A		USGS	9067200	3/31/2016	11.9
77.4	A		USGS	9067200	4/1/2016	11.3
81.8	A		USGS	9067200	4/2/2016	11.8
93.7	A		USGS	9067200	4/3/2016	12.6
108	A		USGS	9067200	4/4/2016	13.6
130	A		USGS	9067200	4/5/2016	14
112	A		USGS	9067200	4/6/2016	13.3
135	A		USGS	9067200	4/7/2016	14.8
165	A		USGS	9067200	4/8/2016	15.7
191	A		USGS	9067200	4/9/2016	17.2
203	A		USGS	9067200	4/10/2016	18.3
210	A		USGS	9067200	4/11/2016	18.4
213	A		USGS	9067200	4/12/2016	19
252	A		USGS	9067200	4/13/2016	20.4
281	A		USGS	9067200	4/14/2016	20.4
290	A		USGS	9067200	4/15/2016	22.5
245	A		USGS	9067200	4/16/2016	20.6
214	A		USGS	9067200	4/17/2016	19.8
191	A		USGS	9067200	4/18/2016	19.1
178	A		USGS	9067200	4/19/2016	18.2
172	A		USGS	9067200	4/20/2016	17.9
183	A		USGS	9067200	4/21/2016	18.4
238	A		USGS	9067200	4/22/2016	20.9
338	A		USGS	9067200	4/23/2016	27.7
382	A		USGS	9067200	4/24/2016	30.2
353	A		USGS	9067200	4/25/2016	29.1
374	A		USGS	9067200	4/26/2016	30.3
328	A		USGS	9067200	4/27/2016	27.1
300	A		USGS	9067200	4/28/2016	25.4
278	A		USGS	9067200	4/29/2016	23.9

259	A		USGS	9067200	4/30/2016	22.8
237	A		USGS	9067200	5/1/2016	21.7
238	A		USGS	9067200	5/2/2016	21.7
270	A		USGS	9067200	5/3/2016	22.8
345	A		USGS	9067200	5/4/2016	27.3
498	A		USGS	9067200	5/5/2016	39.7
676	A		USGS	9067200	5/6/2016	61.4
781	A		USGS	9067200	5/7/2016	83.1
700	A		USGS	9067200	5/8/2016	73.6
640	A		USGS	9067200	5/9/2016	60.6
664	A		USGS	9067200	5/10/2016	62.8
601	A		USGS	9067200	5/11/2016	51.3
559	A		USGS	9067200	5/12/2016	45.7
626	A		USGS	9067200	5/13/2016	51.4
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1060	A		USGS	9067200	5/15/2016	106
1140	A		USGS	9067200	5/16/2016	115
996	A		USGS	9067200	5/17/2016	93.9
960	A		USGS	9067200	5/18/2016	91.2
1010	A		USGS	9067200	5/19/2016	90.9
1160	A:e		USGS	9067200	5/20/2016	107
1330	A:e		USGS	9067200	5/21/2016	146
1650	A:e		USGS	9067200	5/22/2016	180
1670	A:e		USGS	9067200	5/23/2016	169
1380	A:e		USGS	9067200	5/24/2016	130
1500	A		USGS	9067200	5/25/2016	141
1470	A:e		USGS	9067200	5/26/2016	143
1330	A		USGS	9067200	5/27/2016	118
1180	A		USGS	9067200	5/28/2016	103
1170	A		USGS	9067200	5/29/2016	107
1320	A		USGS	9067200	5/30/2016	132
1400	A		USGS	9067200	5/31/2016	141
1600	A		USGS	9067200	6/1/2016	171
1870	A		USGS	9067200	6/2/2016	214
2200	A		USGS	9067200	6/3/2016	257
2710	A		USGS	9067200	6/4/2016	302
3180	A		USGS	9067200	6/5/2016	363
3320	A		USGS	9067200	6/6/2016	357
3230	A		USGS	9067200	6/7/2016	315
3170	A		USGS	9067200	6/8/2016	326
3250	A		USGS	9067200	6/9/2016	358
3300	A		USGS	9067200	6/10/2016	384
3390	A		USGS	9067200	6/11/2016	438
3320	A		USGS	9067200	6/12/2016	414
3010	A		USGS	9067200	6/13/2016	350
2680	A		USGS	9067200	6/14/2016	311
2270	A		USGS	9067200	6/15/2016	286

2220	A		USGS	9067200	6/16/2016	306
2080	A		USGS	9067200	6/17/2016	301
2030	A		USGS	9067200	6/18/2016	296
2010	A		USGS	9067200	6/19/2016	322
2130	A		USGS	9067200	6/20/2016	363
2210	A		USGS	9067200	6/21/2016	393
2060	A		USGS	9067200	6/22/2016	365
2340	A		USGS	9067200	6/23/2016	448
1890	A		USGS	9067200	6/24/2016	319
1700	A		USGS	9067200	6/25/2016	273
1540	A		USGS	9067200	6/26/2016	256
1350	A		USGS	9067200	6/27/2016	237
1140	A		USGS	9067200	6/28/2016	216
1050	A		USGS	9067200	6/29/2016	194
979	A		USGS	9067200	6/30/2016	187
1100	A		USGS	9067200	7/1/2016	231
1150	A		USGS	9067200	7/2/2016	261
1070	A		USGS	9067200	7/3/2016	228
896	A		USGS	9067200	7/4/2016	177
822	A		USGS	9067200	7/5/2016	161
760	A		USGS	9067200	7/6/2016	152
685	A		USGS	9067200	7/7/2016	140
609	A		USGS	9067200	7/8/2016	126
557	A		USGS	9067200	7/9/2016	119
520	A		USGS	9067200	7/10/2016	112
493	A		USGS	9067200	7/11/2016	108
441	A		USGS	9067200	7/12/2016	90.3
398	A		USGS	9067200	7/13/2016	80.2
369	A		USGS	9067200	7/14/2016	76.2
342	A		USGS	9067200	7/15/2016	70
317	A		USGS	9067200	7/16/2016	64.2
296	A		USGS	9067200	7/17/2016	62.1
289	A		USGS	9067200	7/18/2016	61.8
322	A		USGS	9067200	7/19/2016	74.7
332	A		USGS	9067200	7/20/2016	86.6
355	A		USGS	9067200	7/21/2016	174
346	A		USGS	9067200	7/22/2016	142
299	A		USGS	9067200	7/23/2016	113
267	A		USGS	9067200	7/24/2016	92.9
247	A		USGS	9067200	7/25/2016	75.2
229	A		USGS	9067200	7/26/2016	64.2
217	A		USGS	9067200	7/27/2016	57.4
202	A		USGS	9067200	7/28/2016	49.6
191	A		USGS	9067200	7/29/2016	44.5
184	A		USGS	9067200	7/30/2016	41.9
177	A		USGS	9067200	7/31/2016	40.6
186	A		USGS	9067200	8/1/2016	36.9

168	A		USGS	9067200	8/2/2016	33.7
157	A		USGS	9067200	8/3/2016	31.3
161	A		USGS	9067200	8/4/2016	33.6
239	A		USGS	9067200	8/5/2016	45.4
244	A		USGS	9067200	8/6/2016	48.9
203	A		USGS	9067200	8/7/2016	44.8
192	A		USGS	9067200	8/8/2016	44.9
182	A		USGS	9067200	8/9/2016	46.8
188	A		USGS	9067200	8/10/2016	44.7
181	A		USGS	9067200	8/11/2016	44.4
162	A		USGS	9067200	8/12/2016	42.5
146	A		USGS	9067200	8/13/2016	38.7
133	A		USGS	9067200	8/14/2016	36.7
126	A		USGS	9067200	8/15/2016	28.3
120	A		USGS	9067200	8/16/2016	25.7
119	A		USGS	9067200	8/17/2016	23.4
122	A		USGS	9067200	8/18/2016	22.3
134	A		USGS	9067200	8/19/2016	29.9
127	A		USGS	9067200	8/20/2016	26.3
114	A		USGS	9067200	8/21/2016	22.5
109	A		USGS	9067200	8/22/2016	21
107	A		USGS	9067200	8/23/2016	22.4
113	A		USGS	9067200	8/24/2016	20
112	A		USGS	9067200	8/25/2016	19.3
130	A		USGS	9067200	8/26/2016	23.7
121	A		USGS	9067200	8/27/2016	21.9
117	A		USGS	9067200	8/28/2016	21.2
137	A		USGS	9067200	8/29/2016	21.3
119	A		USGS	9067200	8/30/2016	19.8
111	A		USGS	9067200	8/31/2016	18.8
103	A		USGS	9067200	9/1/2016	18.4
128	A		USGS	9067200	9/2/2016	24.6
137	A		USGS	9067200	9/3/2016	29.6
133	A		USGS	9067200	9/4/2016	37.3
127	A		USGS	9067200	9/5/2016	30.4
110	A		USGS	9067200	9/6/2016	23.8
102	A		USGS	9067200	9/7/2016	21.6
96.1	A		USGS	9067200	9/8/2016	20.8
92.9	A		USGS	9067200	9/9/2016	19.7
89	A		USGS	9067200	9/10/2016	18.5
84.5	A		USGS	9067200	9/11/2016	17.4
84.4	A		USGS	9067200	9/12/2016	16.8
83.9	A		USGS	9067200	9/13/2016	15.9
81.9	A		USGS	9067200	9/14/2016	15.4
88.8	A		USGS	9067200	9/15/2016	15.1
87.1	A		USGS	9067200	9/16/2016	14.8
83.7	A		USGS	9067200	9/17/2016	15.1

78.4	A		USGS	9067200	9/18/2016	14.7
77.7	A		USGS	9067200	9/19/2016	14.6
75.1	A		USGS	9067200	9/20/2016	14.3
74.6	A		USGS	9067200	9/21/2016	13.7
75.8	A		USGS	9067200	9/22/2016	13.4
76.5	A		USGS	9067200	9/23/2016	14
78.3	A		USGS	9067200	9/24/2016	15.2
80.3	A		USGS	9067200	9/25/2016	14.7
77.9	A		USGS	9067200	9/26/2016	14.4
76.3	A		USGS	9067200	9/27/2016	14.2
74.3	A		USGS	9067200	9/28/2016	13.7
74.3	A		USGS	9067200	9/29/2016	14
73.4	A		USGS	9067200	9/30/2016	14.1
75.8	A		USGS	9067200	10/1/2016	14.7
74	A		USGS	9067200	10/2/2016	14.2
73.7	A		USGS	9067200	10/3/2016	13.8
71.9	A		USGS	9067200	10/4/2016	13.7
71.4	A		USGS	9067200	10/5/2016	13
79.6	A		USGS	9067200	10/6/2016	12.5
78.8	A		USGS	9067200	10/7/2016	11.8
79.2	A		USGS	9067200	10/8/2016	11.8
79.8	A		USGS	9067200	10/9/2016	12.7
78	A		USGS	9067200	10/10/2016	14.2
85.6	A		USGS	9067200	10/11/2016	16.1
93.8	A		USGS	9067200	10/12/2016	16.2
89.5	A		USGS	9067200	10/13/2016	13.3
85.7	A		USGS	9067200	10/14/2016	12.8
81.8	A		USGS	9067200	10/15/2016	12.8
78	A		USGS	9067200	10/16/2016	12.6
76.9	A		USGS	9067200	10/17/2016	13.5
75	A		USGS	9067200	10/18/2016	13.3
77.7	A		USGS	9067200	10/19/2016	13.6
74.7	A		USGS	9067200	10/20/2016	13
71.6	A		USGS	9067200	10/21/2016	14.3
74.3	A		USGS	9067200	10/22/2016	14.6
74.7	A		USGS	9067200	10/23/2016	14.5
75.5	A		USGS	9067200	10/24/2016	15
76.7	A		USGS	9067200	10/25/2016	15.2
78.6	A		USGS	9067200	10/26/2016	15.5
77.5	A		USGS	9067200	10/27/2016	15.3
76.8	A		USGS	9067200	10/28/2016	15
77.3	A		USGS	9067200	10/29/2016	15.2
77.1	A		USGS	9067200	10/30/2016	14.9
76.8	A		USGS	9067200	10/31/2016	14.6
72.5	A		USGS	9067200	11/1/2016	14.3
80.7	A		USGS	9067200	11/2/2016	14.8
75.9	A		USGS	9067200	11/3/2016	14.7

72.5	A		USGS	9067200	11/4/2016	14.5
75.7	A		USGS	9067200	11/5/2016	14.2
82.2	A		USGS	9067200	11/6/2016	14.2
77.4	A		USGS	9067200	11/7/2016	13.9
72	A		USGS	9067200	11/8/2016	13.2
69.2	A		USGS	9067200	11/9/2016	12.8
69.7	A		USGS	9067200	11/10/2016	12.9
70.9	A		USGS	9067200	11/11/2016	12.5
66.5	A		USGS	9067200	11/12/2016	12.3
66.9	A		USGS	9067200	11/13/2016	12.1
63.7	A		USGS	9067200	11/14/2016	11.6
64.3	A		USGS	9067200	11/15/2016	11.5
61.1	A		USGS	9067200	11/16/2016	11.1
65.6	A		USGS	9067200	11/17/2016	11.8
47.5	A		USGS	9067200	11/18/2016	9.69
44.3	A		USGS	9067200	11/19/2016	10.1
60.2	A		USGS	9067200	11/20/2016	12.1
72.2	A		USGS	9067200	11/21/2016	12.3
76.3	A		USGS	9067200	11/22/2016	12.8
57.9	A		USGS	9067200	11/23/2016	11.6
55.5	A		USGS	9067200	11/24/2016	11.5
45.7	A		USGS	9067200	11/25/2016	9.13
47.1	A		USGS	9067200	11/26/2016	10.3
61.4	A		USGS	9067200	11/27/2016	12.1
61.7	A		USGS	9067200	11/28/2016	12.1
58.1	A		USGS	9067200	11/29/2016	11.7
47.8	A		USGS	9067200	11/30/2016	9.53
51.6	A		USGS	9067200	12/1/2016	10.6
54.6	A		USGS	9067200	12/2/2016	12.1
54.2	A		USGS	9067200	12/3/2016	11.5
49	A		USGS	9067200	12/4/2016	10.4
61.9	A		USGS	9067200	12/5/2016	10.7
56.7	A		USGS	9067200	12/6/2016	10.8
52.6	A		USGS	9067200	12/7/2016	10.2
43.7	A		USGS	9067200	12/8/2016	9.19
61.9	A		USGS	9067200	12/9/2016	12.1
67.9	A		USGS	9067200	12/10/2016	11.4
69.1	A		USGS	9067200	12/11/2016	11.2
68.1	A		USGS	9067200	12/12/2016	11.2
65.5	A		USGS	9067200	12/13/2016	11.3
66.5	A		USGS	9067200	12/14/2016	11.1
66.8	A		USGS	9067200	12/15/2016	11.1
73.9	A		USGS	9067200	12/16/2016	11.7
62.5	A		USGS	9067200	12/17/2016	9.66
44.1	A		USGS	9067200	12/18/2016	7.64
44.8	A		USGS	9067200	12/19/2016	10.2
76.2	A		USGS	9067200	12/20/2016	14.4

80	A		USGS	9067200	12/21/2016	13.1
75.4	A		USGS	9067200	12/22/2016	11.5
74	A		USGS	9067200	12/23/2016	11.2
68.8	A		USGS	9067200	12/24/2016	10.7
69.6	A		USGS	9067200	12/25/2016	10.6
63.3	A		USGS	9067200	12/26/2016	9.99
52.6	A		USGS	9067200	12/27/2016	9.35
73.4	A		USGS	9067200	12/28/2016	10.4
63.3	A		USGS	9067200	12/29/2016	9.5
62	A		USGS	9067200	12/30/2016	9.31
61.3	A		USGS	9067200	12/31/2016	9.22
61.8	A		USGS	9067200	1/1/2017	9.08
61.1	A		USGS	9067200	1/2/2017	9.05
63.8	A		USGS	9067200	1/3/2017	8.94
62.7	A		USGS	9067200	1/4/2017	8.91
61.5	A		USGS	9067200	1/5/2017	9.26
50.9	A		USGS	9067200	1/6/2017	8.79
47	A		USGS	9067200	1/7/2017	9.35
69.5	A		USGS	9067200	1/8/2017	10.2
80.9	A		USGS	9067200	1/9/2017	10.4
79.2	A		USGS	9067200	1/10/2017	10.5
78.4	A		USGS	9067200	1/11/2017	11.4
76.4	A		USGS	9067200	1/12/2017	11.8
81.9	A		USGS	9067200	1/13/2017	12
81.4	A		USGS	9067200	1/14/2017	11.6
78.1	A		USGS	9067200	1/15/2017	10.8
77.4	A		USGS	9067200	1/16/2017	10.4
73	A		USGS	9067200	1/17/2017	9.89
60.8	A		USGS	9067200	1/18/2017	9.41
58.1	A		USGS	9067200	1/19/2017	8.87
73.7	A		USGS	9067200	1/20/2017	9.52
64.6	A		USGS	9067200	1/21/2017	9.04
71	A		USGS	9067200	1/22/2017	9.31
70.5	A		USGS	9067200	1/23/2017	9.27
68.3	A		USGS	9067200	1/24/2017	9.2
66.4	A		USGS	9067200	1/25/2017	9.1
63.7	A		USGS	9067200	1/26/2017	9.02
54	A		USGS	9067200	1/27/2017	7.79
59.5	A		USGS	9067200	1/28/2017	9.04
70.2	A		USGS	9067200	1/29/2017	9.1
70.2	A		USGS	9067200	1/30/2017	8.7
71.6	A		USGS	9067200	1/31/2017	8.63
73.1	A		USGS	9067200	2/1/2017	8.81
69.6	A		USGS	9067200	2/2/2017	8.38
69.7	A		USGS	9067200	2/3/2017	8.27
69.8	A		USGS	9067200	2/4/2017	8.29
69.9	A		USGS	9067200	2/5/2017	8.24

69.4	A		USGS	9067200	2/6/2017	8.22
70.7	A		USGS	9067200	2/7/2017	8.28
72.1	A		USGS	9067200	2/8/2017	8.56
73.7	A		USGS	9067200	2/9/2017	8.91
79	A		USGS	9067200	2/10/2017	9.67
89.7	A		USGS	9067200	2/11/2017	11
81.9	A		USGS	9067200	2/12/2017	9.66
77.1	A		USGS	9067200	2/13/2017	9.55
70.5	A		USGS	9067200	2/14/2017	8.96
68.2	A		USGS	9067200	2/15/2017	8.59
72.5	A		USGS	9067200	2/16/2017	8.77
76.3	A		USGS	9067200	2/17/2017	8.89
79.7	A		USGS	9067200	2/18/2017	8.85
78.1	A		USGS	9067200	2/19/2017	8.73
77.9	A		USGS	9067200	2/20/2017	8.67
78.6	A		USGS	9067200	2/21/2017	9.02
79.8	A		USGS	9067200	2/22/2017	9.25
80	A		USGS	9067200	2/23/2017	8.91
71.7	A		USGS	9067200	2/24/2017	8.04
68.2	A		USGS	9067200	2/25/2017	7.79
66.4	A		USGS	9067200	2/26/2017	7.91
67.2	A		USGS	9067200	2/27/2017	8.7
73.6	A		USGS	9067200	2/28/2017	8.82
67.5	A		USGS	9067200	3/1/2017	8.12
65.4	A		USGS	9067200	3/2/2017	8.57
68.9	A		USGS	9067200	3/3/2017	8.84
68.3	A		USGS	9067200	3/4/2017	8.9
71.6	A		USGS	9067200	3/5/2017	8.72
67.5	A		USGS	9067200	3/6/2017	7.87
64.4	A		USGS	9067200	3/7/2017	8.3
70.6	A		USGS	9067200	3/8/2017	8.7
72.5	A		USGS	9067200	3/9/2017	8.97
77.2	A		USGS	9067200	3/10/2017	9.45
85.7	A		USGS	9067200	3/11/2017	9.91
88.9	A		USGS	9067200	3/12/2017	9.58
81.9	A		USGS	9067200	3/13/2017	8.99
85.1	A		USGS	9067200	3/14/2017	9.69
98	A		USGS	9067200	3/15/2017	11
118	A		USGS	9067200	3/16/2017	12.3
139	A		USGS	9067200	3/17/2017	13.7
161	A		USGS	9067200	3/18/2017	14.9
202	A		USGS	9067200	3/19/2017	17
232	A		USGS	9067200	3/20/2017	18.6
220	A		USGS	9067200	3/21/2017	19.3
225	A		USGS	9067200	3/22/2017	20.2
229	A		USGS	9067200	3/23/2017	20.4
225	A		USGS	9067200	3/24/2017	19.1

201	A		USGS	9067200	3/25/2017	17.5
205	A		USGS	9067200	3/26/2017	17.6
195	A		USGS	9067200	3/27/2017	16.2
198	A		USGS	9067200	3/28/2017	16.3
191	A		USGS	9067200	3/29/2017	15.6
203	A		USGS	9067200	3/30/2017	15.5
205	A		USGS	9067200	3/31/2017	15.3
190	A		USGS	9067200	4/1/2017	14.9
188	A		USGS	9067200	4/2/2017	15.3
197	A		USGS	9067200	4/3/2017	15.1
187	A		USGS	9067200	4/4/2017	14.8
169	A		USGS	9067200	4/5/2017	14.6
168	A		USGS	9067200	4/6/2017	14.6
194	A		USGS	9067200	4/7/2017	15.1
253	A		USGS	9067200	4/8/2017	17.1
288	A		USGS	9067200	4/9/2017	18.6
244	A		USGS	9067200	4/10/2017	16.5
238	A		USGS	9067200	4/11/2017	16.9
244	A		USGS	9067200	4/12/2017	16.8
324	A		USGS	9067200	4/13/2017	19.5
424	A		USGS	9067200	4/14/2017	26.3
470	A		USGS	9067200	4/15/2017	31.6
473	A		USGS	9067200	4/16/2017	33.9
496	A		USGS	9067200	4/17/2017	35.5
527	A		USGS	9067200	4/18/2017	36.7
667	A		USGS	9067200	4/19/2017	48.3
560	A		USGS	9067200	4/20/2017	43.1
486	A		USGS	9067200	4/21/2017	37.8
423	A		USGS	9067200	4/22/2017	31.9
406	A		USGS	9067200	4/23/2017	29.3
449	A		USGS	9067200	4/24/2017	33.3
455	A		USGS	9067200	4/25/2017	34.5
414	A		USGS	9067200	4/26/2017	31.2
400	A		USGS	9067200	4/27/2017	30
366	A		USGS	9067200	4/28/2017	28.1
333	A		USGS	9067200	4/29/2017	25.3
310	A		USGS	9067200	4/30/2017	23.7
306	A		USGS	9067200	5/1/2017	22.7
305	A		USGS	9067200	5/2/2017	22
300	A		USGS	9067200	5/3/2017	21.3
308	A		USGS	9067200	5/4/2017	20.9
398	A		USGS	9067200	5/5/2017	27.4
551	A		USGS	9067200	5/6/2017	49.1
696	A		USGS	9067200	5/7/2017	74.4
765	A		USGS	9067200	5/8/2017	86.6
845	A		USGS	9067200	5/9/2017	103
911	A		USGS	9067200	5/10/2017	106

890	A		USGS	9067200	5/11/2017	97.4
1100	A		USGS	9067200	5/12/2017	124
1340	A		USGS	9067200	5/13/2017	157
1480	A		USGS	9067200	5/14/2017	174
1390	A		USGS	9067200	5/15/2017	154
1350	A		USGS	9067200	5/16/2017	148
1160	A		USGS	9067200	5/17/2017	124
1040	A		USGS	9067200	5/18/2017	103
887	A		USGS	9067200	5/19/2017	81.3
767	A		USGS	9067200	5/20/2017	66.4
695	A		USGS	9067200	5/21/2017	55.9
715	A		USGS	9067200	5/22/2017	53.3
693	A		USGS	9067200	5/23/2017	49.8
681	A		USGS	9067200	5/24/2017	49.7
868	A		USGS	9067200	5/25/2017	83.3
1010	A		USGS	9067200	5/26/2017	107
1110	A		USGS	9067200	5/27/2017	118
980	A		USGS	9067200	5/28/2017	93.5
963	A		USGS	9067200	5/29/2017	91.6
1060	A		USGS	9067200	5/30/2017	116
1250	A		USGS	9067200	5/31/2017	143
1400	A		USGS	9067200	6/1/2017	169
1610	A		USGS	9067200	6/2/2017	216
1720	A		USGS	9067200	6/3/2017	265
1940	A		USGS	9067200	6/4/2017	321
2210	A		USGS	9067200	6/5/2017	359
2170	A		USGS	9067200	6/6/2017	349
2230	A		USGS	9067200	6/7/2017	348
2370	A		USGS	9067200	6/8/2017	391
2620	A		USGS	9067200	6/9/2017	419
2540	A		USGS	9067200	6/10/2017	423
2610	A		USGS	9067200	6/11/2017	403
2420	A		USGS	9067200	6/12/2017	365
2140	A		USGS	9067200	6/13/2017	305
1730	A		USGS	9067200	6/14/2017	214
1730	A		USGS	9067200	6/15/2017	242
1790	A		USGS	9067200	6/16/2017	287
1950	A		USGS	9067200	6/17/2017	369
2180	A		USGS	9067200	6/18/2017	397
2090	A		USGS	9067200	6/19/2017	345
1870	A		USGS	9067200	6/20/2017	301
1840	A		USGS	9067200	6/21/2017	301
1790	A		USGS	9067200	6/22/2017	272
1870	A		USGS	9067200	6/23/2017	246
1720	A		USGS	9067200	6/24/2017	222
1560	A		USGS	9067200	6/25/2017	200
1470	A		USGS	9067200	6/26/2017	187

1380	A		USGS	9067200	6/27/2017	179
1310	A		USGS	9067200	6/28/2017	166
1180	A		USGS	9067200	6/29/2017	148
1100	A		USGS	9067200	6/30/2017	138
1020	A		USGS	9067200	7/1/2017	130
966	A		USGS	9067200	7/2/2017	123
856	A		USGS	9067200	7/3/2017	110
772	A		USGS	9067200	7/4/2017	114
766	A		USGS	9067200	7/5/2017	119
747	A		USGS	9067200	7/6/2017	120
690	A		USGS	9067200	7/7/2017	115
666	A		USGS	9067200	7/8/2017	110
632	A		USGS	9067200	7/9/2017	108
624	A		USGS	9067200	7/10/2017	108
736	A		USGS	9067200	7/11/2017	122
862	A		USGS	9067200	7/12/2017	147
864	A		USGS	9067200	7/13/2017	123
701	A		USGS	9067200	7/14/2017	114
617	A		USGS	9067200	7/15/2017	106
548	A		USGS	9067200	7/16/2017	95.2
512	A		USGS	9067200	7/17/2017	89.2
475	A		USGS	9067200	7/18/2017	83.5
452	A		USGS	9067200	7/19/2017	81.1
478	A		USGS	9067200	7/20/2017	94.6
454	A		USGS	9067200	7/21/2017	139
456	A		USGS	9067200	7/22/2017	158
382	A		USGS	9067200	7/23/2017	102
342	A		USGS	9067200	7/24/2017	79.2
332	A		USGS	9067200	7/25/2017	75.2
370	A		USGS	9067200	7/26/2017	85.1
331	A		USGS	9067200	7/27/2017	70.7
308	A		USGS	9067200	7/28/2017	64
411	A		USGS	9067200	7/29/2017	79.5
377	A		USGS	9067200	7/30/2017	70.1
310	A		USGS	9067200	7/31/2017	58.3
271	A		USGS	9067200	8/1/2017	49.9
246	A		USGS	9067200	8/2/2017	42.8
236	A		USGS	9067200	8/3/2017	40.3
220	A		USGS	9067200	8/4/2017	37.1
207	A		USGS	9067200	8/5/2017	35.5
204	A		USGS	9067200	8/6/2017	32.1
192	A		USGS	9067200	8/7/2017	29.7
247	A		USGS	9067200	8/8/2017	35.3
267	A		USGS	9067200	8/9/2017	36.9
263	A		USGS	9067200	8/10/2017	37.4
273	A		USGS	9067200	8/11/2017	35.7
228	A		USGS	9067200	8/12/2017	31.6

202	A		USGS	9067200	8/13/2017	29.6
191	A		USGS	9067200	8/14/2017	27.4
180	A		USGS	9067200	8/15/2017	25
165	A		USGS	9067200	8/16/2017	23.9
154	A		USGS	9067200	8/17/2017	24
147	A		USGS	9067200	8/18/2017	23.7
141	A		USGS	9067200	8/19/2017	21.8
129	A		USGS	9067200	8/20/2017	21.2
125	A		USGS	9067200	8/21/2017	21.3
120	A		USGS	9067200	8/22/2017	20.5
118	A		USGS	9067200	8/23/2017	20.7
123	A		USGS	9067200	8/24/2017	20.3
130	A		USGS	9067200	8/25/2017	20.7
113	A		USGS	9067200	8/26/2017	19.9
105	A		USGS	9067200	8/27/2017	19.3
103	A		USGS	9067200	8/28/2017	18.9
94.8	A		USGS	9067200	8/29/2017	18.3
89.6	A		USGS	9067200	8/30/2017	17.5
87.9	A		USGS	9067200	8/31/2017	17.4
91.2	A		USGS	9067200	9/1/2017	18
91.9	A		USGS	9067200	9/2/2017	18.8
85.7	A		USGS	9067200	9/3/2017	17.4
84.2	A		USGS	9067200	9/4/2017	15.5
80.4	A		USGS	9067200	9/5/2017	15.4
77.1	A		USGS	9067200	9/6/2017	14.5
77.8	A		USGS	9067200	9/7/2017	14.7
76.6	A		USGS	9067200	9/8/2017	14.3
81	A		USGS	9067200	9/9/2017	14.3
85.1	A		USGS	9067200	9/10/2017	12.8
123	A		USGS	9067200	9/11/2017	16.5
135	A		USGS	9067200	9/12/2017	14.2
117	A		USGS	9067200	9/13/2017	13.4
103	A		USGS	9067200	9/14/2017	13.7
117	A		USGS	9067200	9/15/2017	19.6
117	A		USGS	9067200	9/16/2017	17.4
110	A		USGS	9067200	9/17/2017	16
103	A		USGS	9067200	9/18/2017	14.9
93.7	A		USGS	9067200	9/19/2017	14.6
87.8	A		USGS	9067200	9/20/2017	13.2
86.2	A		USGS	9067200	9/21/2017	12.5
83.9	A		USGS	9067200	9/22/2017	12.1
89.1	A		USGS	9067200	9/23/2017	13.3
101	A		USGS	9067200	9/24/2017	14.6
96.6	A		USGS	9067200	9/25/2017	14.1
89.9	A		USGS	9067200	9/26/2017	12.6
87.6	A		USGS	9067200	9/27/2017	12.3
89.8	A		USGS	9067200	9/28/2017	13.5

89.8	A		USGS	9067200	9/29/2017	14.5
92.8	A		USGS	9067200	9/30/2017	15.5
143	A		USGS	9067200	10/1/2017	23
178	A		USGS	9067200	10/2/2017	27.9
148	A		USGS	9067200	10/3/2017	25.1
164	A		USGS	9067200	10/4/2017	26.4
186	A		USGS	9067200	10/5/2017	30.6
187	A		USGS	9067200	10/6/2017	32.5
159	A		USGS	9067200	10/7/2017	26.6
142	A		USGS	9067200	10/8/2017	24.7
137	A		USGS	9067200	10/9/2017	25.8
124	A		USGS	9067200	10/10/2017	23.7
126	A		USGS	9067200	10/11/2017	22.5
120	A		USGS	9067200	10/12/2017	23.2
115	A		USGS	9067200	10/13/2017	25.2
108	A		USGS	9067200	10/14/2017	24.2
93.2	A		USGS	9067200	10/15/2017	21.2
104	A		USGS	9067200	10/16/2017	22.1
98.6	A		USGS	9067200	10/17/2017	20.9
98.2	A		USGS	9067200	10/18/2017	20.1
97.5	A		USGS	9067200	10/19/2017	20
97	A		USGS	9067200	10/20/2017	19.6
105	A		USGS	9067200	10/21/2017	21.6
90.2	A		USGS	9067200	10/22/2017	19.8
108	A		USGS	9067200	10/23/2017	22.6
99.3	A		USGS	9067200	10/24/2017	21.9
96.1	A		USGS	9067200	10/25/2017	20.8
98.5	A		USGS	9067200	10/26/2017	20.7
88.4	A		USGS	9067200	10/27/2017	19.6
95	A		USGS	9067200	10/28/2017	20.3
88.6	A		USGS	9067200	10/29/2017	18.4
93	A		USGS	9067200	10/30/2017	19
97.6	A		USGS	9067200	10/31/2017	19.2
89.8	A		USGS	9067200	11/1/2017	17.6
92.5	A		USGS	9067200	11/2/2017	17.7
88.1	A		USGS	9067200	11/3/2017	16.7
88.1	A		USGS	9067200	11/4/2017	16.8
89.6	A		USGS	9067200	11/5/2017	16.7
87.3	A		USGS	9067200	11/6/2017	16.5
87.7	A		USGS	9067200	11/7/2017	16.6
84.6	A		USGS	9067200	11/8/2017	16.1
72.7	A		USGS	9067200	11/9/2017	15.4
76	A		USGS	9067200	11/10/2017	16.3
79.3	A		USGS	9067200	11/11/2017	16.1
69	A		USGS	9067200	11/12/2017	14.4
80.4	A		USGS	9067200	11/13/2017	15.8
76.3	A		USGS	9067200	11/14/2017	14.7

69	A		USGS	9067200	11/15/2017	14.2
71.9	A		USGS	9067200	11/16/2017	14.7
89.8	A		USGS	9067200	11/17/2017	15.8
65.5	A		USGS	9067200	11/18/2017	13.2
56.5	A		USGS	9067200	11/19/2017	13.2
68.5	A		USGS	9067200	11/20/2017	14.8
82.7	A		USGS	9067200	11/21/2017	15.7
79.5	A		USGS	9067200	11/22/2017	14.9
81.5	A		USGS	9067200	11/23/2017	14.8
80.6	A		USGS	9067200	11/24/2017	14.3
77.3	A		USGS	9067200	11/25/2017	14.1
75.1	A		USGS	9067200	11/26/2017	13.7
76	A		USGS	9067200	11/27/2017	13.6
75.4	A		USGS	9067200	11/28/2017	13.5
68.3	A		USGS	9067200	11/29/2017	12.8
63.2	A		USGS	9067200	11/30/2017	12.4
68.2	A		USGS	9067200	12/1/2017	12.8
72.1	A		USGS	9067200	12/2/2017	12.7
68.9	A		USGS	9067200	12/3/2017	12.3
64.5	A		USGS	9067200	12/4/2017	11.7
45.4	A		USGS	9067200	12/5/2017	8.28
35.5	A		USGS	9067200	12/6/2017	8.25
40.5	A		USGS	9067200	12/7/2017	9.38
50.5	A		USGS	9067200	12/8/2017	11.3
46.7	A		USGS	9067200	12/9/2017	9.74
43.9	A		USGS	9067200	12/10/2017	9.4
46	A		USGS	9067200	12/11/2017	9.56
52.3	A		USGS	9067200	12/12/2017	10.5
55.6	A		USGS	9067200	12/13/2017	10.8
59.2	A		USGS	9067200	12/14/2017	11.2
48.3	A		USGS	9067200	12/15/2017	9.7
49	A		USGS	9067200	12/16/2017	10.3
51.4	A		USGS	9067200	12/17/2017	10.1
47.1	A		USGS	9067200	12/18/2017	9.61
51.8	A		USGS	9067200	12/19/2017	9.79
51	A		USGS	9067200	12/20/2017	9.81
56.8	A		USGS	9067200	12/21/2017	10.1
53	A		USGS	9067200	12/22/2017	9.78
55.9	A		USGS	9067200	12/23/2017	9.67
50.1	A		USGS	9067200	12/24/2017	9.5
54	A		USGS	9067200	12/25/2017	9.78
58	A		USGS	9067200	12/26/2017	9.85
57.3	A		USGS	9067200	12/27/2017	9.71
61.4	A		USGS	9067200	12/28/2017	9.64
58.6	A		USGS	9067200	12/29/2017	9.5
60.4	A		USGS	9067200	12/30/2017	9.3
61.6	A		USGS	9067200	12/31/2017	9.18

52.9	A		USGS	9067200	1/1/2018	8.79
55.2	A		USGS	9067200	1/2/2018	8.44
42.1	A		USGS	9067200	1/3/2018	7.56
50.4	A		USGS	9067200	1/4/2018	8.68
52.9	A		USGS	9067200	1/5/2018	8.68
58.9	A		USGS	9067200	1/6/2018	8.79
63.8	A		USGS	9067200	1/7/2018	8.99
57.6	A		USGS	9067200	1/8/2018	8.71
67	A		USGS	9067200	1/9/2018	8.93
66.8	A		USGS	9067200	1/10/2018	8.95
57.9	A		USGS	9067200	1/11/2018	8.78
58	A		USGS	9067200	1/12/2018	9.02
55.3	A		USGS	9067200	1/13/2018	8.93
57.8	A		USGS	9067200	1/14/2018	9.03
52.7	A		USGS	9067200	1/15/2018	8.66
43	A		USGS	9067200	1/16/2018	8.23
48.8	A		USGS	9067200	1/17/2018	9.79
60.5	A		USGS	9067200	1/18/2018	10.4
63.7	A		USGS	9067200	1/19/2018	10.1
68	A		USGS	9067200	1/20/2018	10.2
60.8	A		USGS	9067200	1/21/2018	10.1
53.6	A		USGS	9067200	1/22/2018	9.76
57.6	A		USGS	9067200	1/23/2018	10
51.6	A		USGS	9067200	1/24/2018	9.59
54.5	A		USGS	9067200	1/25/2018	9.76
58.2	A		USGS	9067200	1/26/2018	10
50.2	A		USGS	9067200	1/27/2018	9.57
57.3	A		USGS	9067200	1/28/2018	9.86
55	A		USGS	9067200	1/29/2018	9.79
58.8	A		USGS	9067200	1/30/2018	9.78
60.1	A		USGS	9067200	1/31/2018	9.75
60.5	A		USGS	9067200	2/1/2018	9.7
60.7	A		USGS	9067200	2/2/2018	9.83
61.5	A		USGS	9067200	2/3/2018	10
61.6	A		USGS	9067200	2/4/2018	9.73
62.5	A		USGS	9067200	2/5/2018	9.73
62.7	A		USGS	9067200	2/6/2018	9.86
55.7	A		USGS	9067200	2/7/2018	9.79
59.5	A		USGS	9067200	2/8/2018	10.1
58.1	A		USGS	9067200	2/9/2018	10.1
59.1	A		USGS	9067200	2/10/2018	10.1
50.9	A		USGS	9067200	2/11/2018	9.07
61.4	A		USGS	9067200	2/12/2018	10.4
63.7	A		USGS	9067200	2/13/2018	10.3
62.7	A		USGS	9067200	2/14/2018	10.3
62.8	A		USGS	9067200	2/15/2018	10.2
57.2	A		USGS	9067200	2/16/2018	9.89

62.5	A		USGS	9067200	2/17/2018	10.4
61.2	A		USGS	9067200	2/18/2018	10.3
64.2	A		USGS	9067200	2/19/2018	10.5
58.1	A		USGS	9067200	2/20/2018	9.84
51	A		USGS	9067200	2/21/2018	9.24
65.4	A		USGS	9067200	2/22/2018	10.4
62.9	A		USGS	9067200	2/23/2018	10.1
60.9	A		USGS	9067200	2/24/2018	9.99
59.3	A		USGS	9067200	2/25/2018	9.62
56.8	A		USGS	9067200	2/26/2018	9.66
59.7	A		USGS	9067200	2/27/2018	9.72
60.1	A		USGS	9067200	2/28/2018	9.71
58.7	A		USGS	9067200	3/1/2018	9.51
62.6	A		USGS	9067200	3/2/2018	9.98
62.6	A		USGS	9067200	3/3/2018	10.5
64.8	A		USGS	9067200	3/4/2018	10.1
60.1	A		USGS	9067200	3/5/2018	9.56
60.3	A		USGS	9067200	3/6/2018	9.47
58.4	A		USGS	9067200	3/7/2018	9.49
61.4	A		USGS	9067200	3/8/2018	9.89
62.8	A		USGS	9067200	3/9/2018	10
61.7	A		USGS	9067200	3/10/2018	9.8
58.5	A		USGS	9067200	3/11/2018	9.62
61.1	A		USGS	9067200	3/12/2018	9.73
62.1	A		USGS	9067200	3/13/2018	9.91
65.1	A		USGS	9067200	3/14/2018	10.2
67	A		USGS	9067200	3/15/2018	10.2
66.4	A		USGS	9067200	3/16/2018	9.97
62.2	A		USGS	9067200	3/17/2018	9.9
64.5	A		USGS	9067200	3/18/2018	10
64.9	A		USGS	9067200	3/19/2018	9.94
61.5	A		USGS	9067200	3/20/2018	9.6
60.1	A		USGS	9067200	3/21/2018	9.75
64.3	A		USGS	9067200	3/22/2018	10.2
86.7	A		USGS	9067200	3/23/2018	14.4
82.8	A		USGS	9067200	3/24/2018	13.3
82.6	A		USGS	9067200	3/25/2018	13.1
83.7	A		USGS	9067200	3/26/2018	12.5
83.8	A		USGS	9067200	3/27/2018	12
79.8	A		USGS	9067200	3/28/2018	11.4
78.3	A		USGS	9067200	3/29/2018	10.5
74.3	A		USGS	9067200	3/30/2018	10.7
83.9	A		USGS	9067200	3/31/2018	11.5
93.2	A		USGS	9067200	4/1/2018	12.5
107	A		USGS	9067200	4/2/2018	12.8
112	A		USGS	9067200	4/3/2018	12.4
100	A		USGS	9067200	4/4/2018	11.6

99.6	A		USGS	9067200	4/5/2018	11.5
120	A		USGS	9067200	4/6/2018	12.6
169	A		USGS	9067200	4/7/2018	18.8
238	A		USGS	9067200	4/8/2018	25.9
174	A		USGS	9067200	4/9/2018	19.2
152	A		USGS	9067200	4/10/2018	17.4
176	A		USGS	9067200	4/11/2018	18.2
207	A		USGS	9067200	4/12/2018	19.2
194	A		USGS	9067200	4/13/2018	18.9
159	A		USGS	9067200	4/14/2018	16.9
152	A		USGS	9067200	4/15/2018	16.2
170	A		USGS	9067200	4/16/2018	16.2
184	A		USGS	9067200	4/17/2018	16.2
162	A		USGS	9067200	4/18/2018	15.2
169	A		USGS	9067200	4/19/2018	15.7
192	A		USGS	9067200	4/20/2018	17
182	A		USGS	9067200	4/21/2018	16.8
169	A		USGS	9067200	4/22/2018	16
224	A		USGS	9067200	4/23/2018	18.2
281	A		USGS	9067200	4/24/2018	20.7
287	A		USGS	9067200	4/25/2018	20.7
341	A		USGS	9067200	4/26/2018	23.8
406	A		USGS	9067200	4/27/2018	28.7
498	A		USGS	9067200	4/28/2018	35.9
616	A		USGS	9067200	4/29/2018	47.9
680	A		USGS	9067200	4/30/2018	63.1
602	A		USGS	9067200	5/1/2018	62.7
512	A		USGS	9067200	5/2/2018	53.5
482	A		USGS	9067200	5/3/2018	51.4
431	A		USGS	9067200	5/4/2018	43.5
449	A		USGS	9067200	5/5/2018	43.6
525	A		USGS	9067200	5/6/2018	54.5
660	A		USGS	9067200	5/7/2018	72.4
850	A		USGS	9067200	5/8/2018	93.6
1070	A		USGS	9067200	5/9/2018	119
1160	A		USGS	9067200	5/10/2018	133
1390	A		USGS	9067200	5/11/2018	167
1390	A		USGS	9067200	5/12/2018	166
1400	A		USGS	9067200	5/13/2018	152
1290	A		USGS	9067200	5/14/2018	130
1200	A		USGS	9067200	5/15/2018	132
1280	A		USGS	9067200	5/16/2018	161
1430	A		USGS	9067200	5/17/2018	194
1380	A		USGS	9067200	5/18/2018	187
1220	A		USGS	9067200	5/19/2018	134
1110	A		USGS	9067200	5/20/2018	121
1130	A		USGS	9067200	5/21/2018	128

1210	A		USGS	9067200	5/22/2018	150
1240	A		USGS	9067200	5/23/2018	165
1220	A		USGS	9067200	5/24/2018	166
1400	A		USGS	9067200	5/25/2018	205
1520	A		USGS	9067200	5/26/2018	230
1350	A		USGS	9067200	5/27/2018	200
1330	A		USGS	9067200	5/28/2018	203
1160	A		USGS	9067200	5/29/2018	160
1080	A		USGS	9067200	5/30/2018	149
1200	A		USGS	9067200	5/31/2018	192
1290	A		USGS	9067200	6/1/2018	226
1200	A		USGS	9067200	6/2/2018	195
1180	A		USGS	9067200	6/3/2018	198
1200	A		USGS	9067200	6/4/2018	231
1220	A		USGS	9067200	6/5/2018	218
1190	A		USGS	9067200	6/6/2018	209
1110	A		USGS	9067200	6/7/2018	192
1070	A		USGS	9067200	6/8/2018	189
1030	A		USGS	9067200	6/9/2018	181
984	A		USGS	9067200	6/10/2018	173
902	A		USGS	9067200	6/11/2018	155
815	A		USGS	9067200	6/12/2018	141
798	A		USGS	9067200	6/13/2018	144
759	A		USGS	9067200	6/14/2018	143
698	A		USGS	9067200	6/15/2018	135
680	A		USGS	9067200	6/16/2018	136
763	A		USGS	9067200	6/17/2018	251
836	A		USGS	9067200	6/18/2018	283
632	A		USGS	9067200	6/19/2018	156
544	A		USGS	9067200	6/20/2018	127
502	A		USGS	9067200	6/21/2018	116
468	A		USGS	9067200	6/22/2018	107
420	A		USGS	9067200	6/23/2018	94.1
391	A		USGS	9067200	6/24/2018	88
357	A		USGS	9067200	6/25/2018	73
337	A		USGS	9067200	6/26/2018	70.5
324	A		USGS	9067200	6/27/2018	68.8
311	A		USGS	9067200	6/28/2018	64.7
297	A		USGS	9067200	6/29/2018	62.7
276	A		USGS	9067200	6/30/2018	56.1
255	A		USGS	9067200	7/1/2018	50.9
243	A		USGS	9067200	7/2/2018	46.9
227	A		USGS	9067200	7/3/2018	43.6
219	A		USGS	9067200	7/4/2018	42.7
208	A		USGS	9067200	7/5/2018	41.9
202	A		USGS	9067200	7/6/2018	39.7
197	A		USGS	9067200	7/7/2018	40.9

203	A		USGS	9067200	7/8/2018	40.3
205	A		USGS	9067200	7/9/2018	37.4
185	A		USGS	9067200	7/10/2018	34.9
177	A		USGS	9067200	7/11/2018	33.9
171	A		USGS	9067200	7/12/2018	33.3
164	A		USGS	9067200	7/13/2018	32.5
155	A		USGS	9067200	7/14/2018	30.9
147	A		USGS	9067200	7/15/2018	30
150	A		USGS	9067200	7/16/2018	28.6
137	A		USGS	9067200	7/17/2018	26.3
129	A		USGS	9067200	7/18/2018	26.1
120	A		USGS	9067200	7/19/2018	24.7
113	A		USGS	9067200	7/20/2018	23.9
111	A		USGS	9067200	7/21/2018	23.2
108	A		USGS	9067200	7/22/2018	23
114	A		USGS	9067200	7/23/2018	21.8
113	A		USGS	9067200	7/24/2018	21.1
107	A		USGS	9067200	7/25/2018	18.4
105	A		USGS	9067200	7/26/2018	18
99.2	A		USGS	9067200	7/27/2018	17.2
94.3	A		USGS	9067200	7/28/2018	16.4
96.2	A		USGS	9067200	7/29/2018	16
91.7	A		USGS	9067200	7/30/2018	15.5
84	A		USGS	9067200	7/31/2018	14.8
79.6	A		USGS	9067200	8/1/2018	14.4
82.1	A		USGS	9067200	8/2/2018	15.2
90.1	A		USGS	9067200	8/3/2018	18.1
117	A		USGS	9067200	8/4/2018	22.3
109	A		USGS	9067200	8/5/2018	22.6
100	A		USGS	9067200	8/6/2018	20.6
88	A		USGS	9067200	8/7/2018	17.7
78.4	A		USGS	9067200	8/8/2018	16.1
74.7	A		USGS	9067200	8/9/2018	14.7
72.6	A		USGS	9067200	8/10/2018	14.1
73.3	A		USGS	9067200	8/11/2018	14.4
69.6	A		USGS	9067200	8/12/2018	15.1
65.5	A		USGS	9067200	8/13/2018	14.5
62.7	A		USGS	9067200	8/14/2018	13.7
60.7	A		USGS	9067200	8/15/2018	13.3
59.5	A		USGS	9067200	8/16/2018	13
62.2	A		USGS	9067200	8/17/2018	13.2
68.2	A		USGS	9067200	8/18/2018	12.7
74.3	A		USGS	9067200	8/19/2018	15.6
71.2	A		USGS	9067200	8/20/2018	14
67.9	A		USGS	9067200	8/21/2018	14.6
102	A		USGS	9067200	8/22/2018	23.2
111	A		USGS	9067200	8/23/2018	27.9

97.1	A		USGS	9067200	8/24/2018	25.1
82.4	A		USGS	9067200	8/25/2018	19.9
75	A		USGS	9067200	8/26/2018	16.7
78.6	A		USGS	9067200	8/27/2018	16.4
72.8	A		USGS	9067200	8/28/2018	15.1
69	A		USGS	9067200	8/29/2018	14.8
63.9	A		USGS	9067200	8/30/2018	14.2
62.4	A		USGS	9067200	8/31/2018	13.8
65.7	A		USGS	9067200	9/1/2018	13.2
62.9	A		USGS	9067200	9/2/2018	13.4
62.9	A		USGS	9067200	9/3/2018	13.7
60.5	A		USGS	9067200	9/4/2018	13.3
59.5	A		USGS	9067200	9/5/2018	13.8
63	A		USGS	9067200	9/6/2018	14.5
62.2	A		USGS	9067200	9/7/2018	14.2
59	A		USGS	9067200	9/8/2018	14.2
56.7	A		USGS	9067200	9/9/2018	13.4
57.1	A		USGS	9067200	9/10/2018	12.7
54.5	A		USGS	9067200	9/11/2018	12.5
53.2	A		USGS	9067200	9/12/2018	12.2
51.4	A		USGS	9067200	9/13/2018	12.1
49.4	A		USGS	9067200	9/14/2018	11.7
47.7	A		USGS	9067200	9/15/2018	11.5
47.3	A		USGS	9067200	9/16/2018	10.1
47.2	A		USGS	9067200	9/17/2018	8.47
46.5	A		USGS	9067200	9/18/2018	7.79
48	A		USGS	9067200	9/19/2018	7.51
55.8	A		USGS	9067200	9/20/2018	8.57
53.9	A		USGS	9067200	9/21/2018	8.5
52	A		USGS	9067200	9/22/2018	8.2
51.7	A		USGS	9067200	9/23/2018	8.19
52.1	A		USGS	9067200	9/24/2018	8.73
57.2	A		USGS	9067200	9/25/2018	9.69
55	A		USGS	9067200	9/26/2018	10
54	A		USGS	9067200	9/27/2018	10.4
51.8	A		USGS	9067200	9/28/2018	10
51.9	A		USGS	9067200	9/29/2018	10.4
49.8	A		USGS	9067200	9/30/2018	9.42

					Please note that the USGS Eagle Riv	
		Total Gaged Flow above the Edwards WWTF			USGS 39422010	
Qual Code		Date	Avg Daily Streamflow (CFS)		Agency	Site #
A		10/1/2008	113.3		USGS	394220106431500
A		10/2/2008	112.3		USGS	394220106431500
A		10/3/2008	117.6		USGS	394220106431500
A		10/4/2008	120.6		USGS	394220106431500
A		10/5/2008	125.0		USGS	394220106431500
A		10/6/2008	132.7		USGS	394220106431500
A		10/7/2008	128.9		USGS	394220106431500
A		10/8/2008	121.3		USGS	394220106431500
A		10/9/2008	117.0		USGS	394220106431500
A		10/10/2008	115.4		USGS	394220106431500
A		10/11/2008	116.1		USGS	394220106431500
A		10/12/2008	134.2		USGS	394220106431500
A		10/13/2008	120.3		USGS	394220106431500
A		10/14/2008	117.3		USGS	394220106431500
A		10/15/2008	117.0		USGS	394220106431500
A		10/16/2008	115.2		USGS	394220106431500
A		10/17/2008	119.1		USGS	394220106431500
A		10/18/2008	119.9		USGS	394220106431500
A		10/19/2008	115.4		USGS	394220106431500
A		10/20/2008	115.6		USGS	394220106431500
A		10/21/2008	125.5		USGS	394220106431500
A		10/22/2008	126.8		USGS	394220106431500
A		10/23/2008	109.5		USGS	394220106431500
A		10/24/2008	126.0		USGS	394220106431500
A		10/25/2008	127.9		USGS	394220106431500
A		10/26/2008	126.2		USGS	394220106431500
A		10/27/2008	115.1		USGS	394220106431500
A		10/28/2008	115.7		USGS	394220106431500
A		10/29/2008	116.6		USGS	394220106431500
A		10/30/2008	117.4		USGS	394220106431500
A		10/31/2008	114.8		USGS	394220106431500
A		11/1/2008	114.8		USGS	394220106431500
A		11/2/2008	114.7		USGS	394220106431500
A		11/3/2008	126.8		USGS	394220106431500
A		11/4/2008	122.9		USGS	394220106431500
A		11/5/2008	118.9		USGS	394220106431500
A		11/6/2008	92.9		USGS	394220106431500
A		11/7/2008	82.9		USGS	394220106431500
A		11/8/2008	118.6		USGS	394220106431500
A		11/9/2008	114.1		USGS	394220106431500
A		11/10/2008	115.1		USGS	394220106431500
A		11/11/2008	113.2		USGS	394220106431500

A		11/12/2008	110.8		USGS	394220106431500
A		11/13/2008	115.3		USGS	394220106431500
A		11/14/2008	112.6		USGS	394220106431500
A		11/15/2008	79.0		USGS	394220106431500
A:e		11/16/2008	103.4		USGS	394220106431500
A:e		11/17/2008	108.9		USGS	394220106431500
A:e		11/18/2008	108.6		USGS	394220106431500
A		11/19/2008	103.7		USGS	394220106431500
A		11/20/2008	101.6		USGS	394220106431500
A		11/21/2008	98.9		USGS	394220106431500
A		11/22/2008	90.6		USGS	394220106431500
A		11/23/2008	92.1		USGS	394220106431500
A:e		11/24/2008	81.7		USGS	394220106431500
A:e		11/25/2008	79.1		USGS	394220106431500
A:e		11/26/2008	84.2		USGS	394220106431500
A		11/27/2008	98.4		USGS	394220106431500
A		11/28/2008	101.2		USGS	394220106431500
A		11/29/2008	99.2		USGS	394220106431500
A		11/30/2008	101.3		USGS	394220106431500
A		12/1/2008	97.5		USGS	394220106431500
A:e		12/2/2008	99.4		USGS	394220106431500
A		12/3/2008	100.7		USGS	394220106431500
A		12/4/2008	98.8		USGS	394220106431500
A:e		12/5/2008	92.9		USGS	394220106431500
A:e		12/6/2008	96.7		USGS	394220106431500
A		12/7/2008	95.9		USGS	394220106431500
A:e		12/8/2008	94.7		USGS	394220106431500
A:e		12/9/2008	89.6		USGS	394220106431500
A:e		12/10/2008	71.5		USGS	394220106431500
A:e		12/11/2008	79.8		USGS	394220106431500
A:e		12/12/2008	85.7		USGS	394220106431500
A:e		12/13/2008	98.2		USGS	394220106431500
A		12/14/2008	89.9		USGS	394220106431500
A:e		12/15/2008	67.9		USGS	394220106431500
A:e		12/16/2008	91.6		USGS	394220106431500
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A		8/22/2018	125.2		USGS	394220106431500
A		8/23/2018	138.9		USGS	394220106431500

A		8/24/2018	122.2		USGS	394220106431500
A		8/25/2018	102.3		USGS	394220106431500
A		8/26/2018	91.7		USGS	394220106431500
A		8/27/2018	95.0		USGS	394220106431500
A		8/28/2018	87.9		USGS	394220106431500
A		8/29/2018	83.8		USGS	394220106431500
A		8/30/2018	78.1		USGS	394220106431500
A		8/31/2018	76.2		USGS	394220106431500
A		9/1/2018	78.9		USGS	394220106431500
A		9/2/2018	76.3		USGS	394220106431500
A		9/3/2018	76.6		USGS	394220106431500
A		9/4/2018	73.8		USGS	394220106431500
A		9/5/2018	73.3		USGS	394220106431500
A		9/6/2018	77.5		USGS	394220106431500
A		9/7/2018	76.4		USGS	394220106431500
A		9/8/2018	73.2		USGS	394220106431500
A		9/9/2018	70.1		USGS	394220106431500
A		9/10/2018	69.8		USGS	394220106431500
A		9/11/2018	67.0		USGS	394220106431500
A		9/12/2018	65.4		USGS	394220106431500
A		9/13/2018	63.5		USGS	394220106431500
A		9/14/2018	61.1		USGS	394220106431500
A		9/15/2018	59.2		USGS	394220106431500
A		9/16/2018	57.4		USGS	394220106431500
A		9/17/2018	55.7		USGS	394220106431500
A		9/18/2018	54.3		USGS	394220106431500
A		9/19/2018	55.5		USGS	394220106431500
A		9/20/2018	64.4		USGS	394220106431500
A		9/21/2018	62.4		USGS	394220106431500
A		9/22/2018	60.2		USGS	394220106431500
A		9/23/2018	59.9		USGS	394220106431500
A		9/24/2018	60.8		USGS	394220106431500
A		9/25/2018	66.9		USGS	394220106431500
A		9/26/2018	65.0		USGS	394220106431500
A		9/27/2018	64.4		USGS	394220106431500
A		9/28/2018	61.8		USGS	394220106431500
A		9/29/2018	62.3		USGS	394220106431500
A		9/30/2018	59.2		USGS	394220106431500

er Below Milk Creek gage data is validated only through 2018. The USGS expects the flows to

6431500 Eagle River Below Milk Creek			Estimated Avg Daily S	
Date	Avg Daily Streamflow (CFS)	Qual Code	Date	Ungaged Flow (CFS)
10/1/2008	141	A	10/1/2008	27.7
10/2/2008	141	A	10/2/2008	28.7
10/3/2008	145	A	10/3/2008	27.4
10/4/2008	152	A	10/4/2008	31.4
10/5/2008	159	A	10/5/2008	34.0
10/6/2008	170	A	10/6/2008	37.3
10/7/2008	169	A	10/7/2008	40.1
10/8/2008	160	A	10/8/2008	38.7
10/9/2008	152	A	10/9/2008	35.0
10/10/2008	147	A	10/10/2008	31.6
10/11/2008	148	A	10/11/2008	31.9
10/12/2008	165	A	10/12/2008	30.8
10/13/2008	160	A	10/13/2008	39.7
10/14/2008	148	A	10/14/2008	30.7
10/15/2008	154	A	10/15/2008	37.0
10/16/2008	153	A	10/16/2008	37.8
10/17/2008	151	A	10/17/2008	31.9
10/18/2008	154	A	10/18/2008	34.1
10/19/2008	149	A	10/19/2008	33.6
10/20/2008	148	A	10/20/2008	32.4
10/21/2008	154	A	10/21/2008	28.5
10/22/2008	162	A	10/22/2008	35.2
10/23/2008	143	A	10/23/2008	33.5
10/24/2008	151	A	10/24/2008	25.0
10/25/2008	159	A	10/25/2008	31.1
10/26/2008	158	A	10/26/2008	31.8
10/27/2008	150	A	10/27/2008	34.9
10/28/2008	147	A	10/28/2008	31.3
10/29/2008	147	A	10/29/2008	30.4
10/30/2008	150	A	10/30/2008	32.6
10/31/2008	150	A	10/31/2008	35.2
11/1/2008	144	A	11/1/2008	29.2
11/2/2008	146	A	11/2/2008	31.3
11/3/2008	158	A	11/3/2008	31.2
11/4/2008	157	A	11/4/2008	34.1
11/5/2008	160	A	11/5/2008	41.1
11/6/2008	132	A	11/6/2008	39.1
11/7/2008	118	A	11/7/2008	35.1
11/8/2008	144	A	11/8/2008	25.4
11/9/2008	151	A	11/9/2008	36.9
11/10/2008	148	A	11/10/2008	32.9
11/11/2008	149	A	11/11/2008	35.8

11/12/2008	146	A		11/12/2008	35.2
11/13/2008	146	A		11/13/2008	30.7
11/14/2008	150	A		11/14/2008	37.4
11/15/2008	118	A		11/15/2008	39.0
11/16/2008	131	A		11/16/2008	27.6
11/17/2008	140	A:e		11/17/2008	31.1
11/18/2008	139	A		11/18/2008	30.4
11/19/2008	136	A		11/19/2008	32.3
11/20/2008	134	A		11/20/2008	32.4
11/21/2008	131	A		11/21/2008	32.1
11/22/2008	130	A		11/22/2008	39.4
11/23/2008	128	A		11/23/2008	35.9
11/24/2008	122	A		11/24/2008	40.3
11/25/2008	117	A		11/25/2008	37.9
11/26/2008	120	A:e		11/26/2008	35.8
11/27/2008	128	A		11/27/2008	29.6
11/28/2008	133	A		11/28/2008	31.8
11/29/2008	131	A		11/29/2008	31.8
11/30/2008	135	A		11/30/2008	33.7
12/1/2008	127	A		12/1/2008	29.5
12/2/2008	128	A		12/2/2008	28.6
12/3/2008	133	A		12/3/2008	32.3
12/4/2008	131	A		12/4/2008	32.2
12/5/2008	128	A		12/5/2008	35.1
12/6/2008	128	A		12/6/2008	31.3
12/7/2008	127	A		12/7/2008	31.1
12/8/2008	128	A		12/8/2008	33.3
12/9/2008	128	A		12/9/2008	38.4
12/10/2008	107	A:e		12/10/2008	35.5
12/11/2008	115	A:e		12/11/2008	35.2
12/12/2008	129	A:e		12/12/2008	43.3
12/13/2008	133	A:e		12/13/2008	34.8
12/14/2008	130	A:e		12/14/2008	40.1
12/15/2008	86.9	A:e		12/15/2008	19.0
12/16/2008	105	A:e		12/16/2008	13.4
12/17/2008	115	A:e		12/17/2008	21.6
12/18/2008	128	A:e		12/18/2008	33.9
12/19/2008	129	A:e		12/19/2008	36.4
12/20/2008	121	A:e		12/20/2008	37.2
12/21/2008	111	A:e		12/21/2008	25.0
12/22/2008	130	A:e		12/22/2008	36.0
12/23/2008	138	A:e		12/23/2008	43.3
12/24/2008	115	A:e		12/24/2008	27.0
12/25/2008	123	A:e		12/25/2008	23.5
12/26/2008	132	A:e		12/26/2008	34.9
12/27/2008	125	A:e		12/27/2008	40.5
12/28/2008	115	A:e		12/28/2008	24.1

12/29/2008	121	A:e		12/29/2008	33.7
12/30/2008	123	A:e		12/30/2008	37.1
12/31/2008	115	A:e		12/31/2008	28.8
1/1/2009	122	A:e		1/1/2009	29.1
1/2/2009	123	A:e		1/2/2009	34.1
1/3/2009	122	A:e		1/3/2009	34.4
1/4/2009	95.7	A:e		1/4/2009	26.1
1/5/2009	74.5	A:e		1/5/2009	11.8
1/6/2009	110	A:e		1/6/2009	19.7
1/7/2009	124	A:e		1/7/2009	33.4
1/8/2009	125	A:e		1/8/2009	34.5
1/9/2009	126	A:e		1/9/2009	36.3
1/10/2009	115	A:e		1/10/2009	32.5
1/11/2009	118	A:e		1/11/2009	29.7
1/12/2009	121	A:e		1/12/2009	34.3
1/13/2009	119	A:e		1/13/2009	30.0
1/14/2009	123	A:e		1/14/2009	33.0
1/15/2009	123	A:e		1/15/2009	35.4
1/16/2009	112	A:e		1/16/2009	32.9
1/17/2009	105	A:e		1/17/2009	27.0
1/18/2009	99.5	A:e		1/18/2009	24.1
1/19/2009	102	A:e		1/19/2009	24.1
1/20/2009	100	A:e		1/20/2009	22.9
1/21/2009	101	A:e		1/21/2009	24.1
1/22/2009	114	A:e		1/22/2009	26.4
1/23/2009	126	A:e		1/23/2009	30.7
1/24/2009	120	A:e		1/24/2009	27.8
1/25/2009	119	A:e		1/25/2009	30.0
1/26/2009	117	A:e		1/26/2009	30.3
1/27/2009	108	A:e		1/27/2009	27.9
1/28/2009	102	A:e		1/28/2009	26.7
1/29/2009	114	A:e		1/29/2009	28.5
1/30/2009	123	A:e		1/30/2009	38.4
1/31/2009	119	A:e		1/31/2009	39.3
2/1/2009	119	A:e		2/1/2009	34.9
2/2/2009	112	A		2/2/2009	28.9
2/3/2009	108	A		2/3/2009	21.8
2/4/2009	106	A		2/4/2009	26.7
2/5/2009	102	A		2/5/2009	21.8
2/6/2009	110	A		2/6/2009	26.1
2/7/2009	106	A		2/7/2009	22.8
2/8/2009	105	A		2/8/2009	22.9
2/9/2009	106	A		2/9/2009	24.2
2/10/2009	103	A		2/10/2009	22.9
2/11/2009	102	A		2/11/2009	22.9
2/12/2009	97.2	A		2/12/2009	23.1
2/13/2009	106	A		2/13/2009	23.0

2/14/2009	103	A		2/14/2009	21.3
2/15/2009	102	A		2/15/2009	24.3
2/16/2009	96.4	A		2/16/2009	20.5
2/17/2009	107	A		2/17/2009	23.9
2/18/2009	102	A		2/18/2009	21.8
2/19/2009	101	A		2/19/2009	22.9
2/20/2009	92.1	A		2/20/2009	21.2
2/21/2009	103	A		2/21/2009	24.0
2/22/2009	99.1	A		2/22/2009	24.6
2/23/2009	106	A		2/23/2009	21.8
2/24/2009	114	A		2/24/2009	26.0
2/25/2009	115	A		2/25/2009	29.5
2/26/2009	114	A		2/26/2009	27.9
2/27/2009	111	A		2/27/2009	29.7
2/28/2009	90.7	A		2/28/2009	24.4
3/1/2009	109	A		3/1/2009	26.0
3/2/2009	116	A		3/2/2009	27.0
3/3/2009	124	A		3/3/2009	30.6
3/4/2009	128	A		3/4/2009	33.3
3/5/2009	129	A		3/5/2009	34.6
3/6/2009	124	A		3/6/2009	32.7
3/7/2009	121	A		3/7/2009	32.0
3/8/2009	113	A		3/8/2009	31.1
3/9/2009	114	A		3/9/2009	29.9
3/10/2009	126	A		3/10/2009	37.7
3/11/2009	101	A		3/11/2009	24.3
3/12/2009	122	A		3/12/2009	34.5
3/13/2009	119	A		3/13/2009	32.3
3/14/2009	109	A		3/14/2009	27.6
3/15/2009	115	A		3/15/2009	30.7
3/16/2009	121	A		3/16/2009	33.2
3/17/2009	131	A		3/17/2009	32.5
3/18/2009	145	A		3/18/2009	30.7
3/19/2009	157	A		3/19/2009	34.1
3/20/2009	173	A		3/20/2009	33.3
3/21/2009	186	A		3/21/2009	34.6
3/22/2009	206	A		3/22/2009	36.4
3/23/2009	229	A		3/23/2009	37.1
3/24/2009	203	A		3/24/2009	37.1
3/25/2009	193	A		3/25/2009	39.0
3/26/2009	180	A		3/26/2009	39.3
3/27/2009	161	A		3/27/2009	36.3
3/28/2009	157	A		3/28/2009	36.1
3/29/2009	158	A		3/29/2009	36.8
3/30/2009	166	A		3/30/2009	40.8
3/31/2009	141	A		3/31/2009	30.8
4/1/2009	154	A		4/1/2009	35.2

4/2/2009	147	A		4/2/2009	37.7
4/3/2009	161	A		4/3/2009	41.8
4/4/2009	162	A		4/4/2009	46.1
4/5/2009	141	A		4/5/2009	39.3
4/6/2009	141	A		4/6/2009	38.2
4/7/2009	165	A		4/7/2009	42.9
4/8/2009	207	A		4/8/2009	46.2
4/9/2009	255	A		4/9/2009	53.7
4/10/2009	249	A		4/10/2009	54.4
4/11/2009	272	A		4/11/2009	59.8
4/12/2009	295	A		4/12/2009	79.5
4/13/2009	277	A		4/13/2009	63.0
4/14/2009	308	A		4/14/2009	67.5
4/15/2009	320	A		4/15/2009	60.5
4/16/2009	391	A		4/16/2009	80.0
4/17/2009	319	A		4/17/2009	56.1
4/18/2009	277	A		4/18/2009	37.3
4/19/2009	251	A		4/19/2009	20.8
4/20/2009	283	A		4/20/2009	16.8
4/21/2009	353	A		4/21/2009	14.4
4/22/2009	508	A		4/22/2009	32.8
4/23/2009	627	A		4/23/2009	58.5
4/24/2009	748	A		4/24/2009	72.9
4/25/2009	863	A		4/25/2009	120.8
4/26/2009	868	A		4/26/2009	139.2
4/27/2009	701	A		4/27/2009	90.7
4/28/2009	644	A		4/28/2009	65.0
4/29/2009	710	A		4/29/2009	60.6
4/30/2009	958	A		4/30/2009	100.3
5/1/2009	1160	A		5/1/2009	122.6
5/2/2009	1190	A		5/2/2009	129.2
5/3/2009	1190	A		5/3/2009	141.0
5/4/2009	1120	A		5/4/2009	152.9
5/5/2009	971	A		5/5/2009	133.4
5/6/2009	954	A		5/6/2009	102.3
5/7/2009	1290	A		5/7/2009	95.2
5/8/2009	1610	A		5/8/2009	101.3
5/9/2009	1600	A		5/9/2009	122.7
5/10/2009	1580	A		5/10/2009	114.9
5/11/2009	1470	A		5/11/2009	100.2
5/12/2009	1790	A		5/12/2009	99.0
5/13/2009	2060	A		5/13/2009	166.0
5/14/2009	1950	A		5/14/2009	105.0
5/15/2009	2090	A		5/15/2009	100.0
5/16/2009	2240	A		5/16/2009	106.0
5/17/2009	2500	A		5/17/2009	104.0
5/18/2009	2890	A		5/18/2009	166.0

5/19/2009	3490	A		5/19/2009	338.0
5/20/2009	3380	A		5/20/2009	337.0
5/21/2009	3410	A		5/21/2009	437.0
5/22/2009	3020	A		5/22/2009	294.0
5/23/2009	3050	A		5/23/2009	286.0
5/24/2009	3210	A		5/24/2009	362.0
5/25/2009	3190	A		5/25/2009	387.0
5/26/2009	2940	A		5/26/2009	283.0
5/27/2009	2670	A		5/27/2009	201.0
5/28/2009	2460	A		5/28/2009	95.0
5/29/2009	2500	A		5/29/2009	80.0
5/30/2009	2910	A		5/30/2009	234.0
5/31/2009	2910	A		5/31/2009	243.0
6/1/2009	3130	A		6/1/2009	295.0
6/2/2009	2990	A		6/2/2009	282.0
6/3/2009	3230	A		6/3/2009	380.0
6/4/2009	3120	A		6/4/2009	334.0
6/5/2009	3020	A		6/5/2009	297.0
6/6/2009	2920	A		6/6/2009	262.0
6/7/2009	2660	A		6/7/2009	232.0
6/8/2009	2250	A		6/8/2009	129.0
6/9/2009	2140	A		6/9/2009	102.0
6/10/2009	2030	A		6/10/2009	94.0
6/11/2009	1970	A		6/11/2009	95.0
6/12/2009	1830	A		6/12/2009	107.0
6/13/2009	1710	A		6/13/2009	47.0
6/14/2009	1940	A		6/14/2009	108.0
6/15/2009	1910	A		6/15/2009	118.0
6/16/2009	1840	A		6/16/2009	93.0
6/17/2009	1940	A		6/17/2009	100.0
6/18/2009	2140	A		6/18/2009	156.0
6/19/2009	2210	A		6/19/2009	189.0
6/20/2009	2410	A		6/20/2009	246.0
6/21/2009	2490	A		6/21/2009	282.0
6/22/2009	2530	A		6/22/2009	322.0
6/23/2009	2510	A		6/23/2009	328.0
6/24/2009	2320	A		6/24/2009	211.0
6/25/2009	2830	A		6/25/2009	208.0
6/26/2009	2970	A		6/26/2009	235.0
6/27/2009	2970	A		6/27/2009	469.0
6/28/2009	2590	A		6/28/2009	190.0
6/29/2009	2240	A		6/29/2009	127.0
6/30/2009	2050	A		6/30/2009	77.0
7/1/2009	1980	A		7/1/2009	86.0
7/2/2009	1860	A		7/2/2009	52.0
7/3/2009	2010	A		7/3/2009	52.0
7/4/2009	1870	A		7/4/2009	59.0

7/5/2009	1760	A		7/5/2009	31.0
7/6/2009	1680	A		7/6/2009	81.0
7/7/2009	1440	A		7/7/2009	66.0
7/8/2009	1340	A		7/8/2009	59.0
7/9/2009	1180	A		7/9/2009	82.0
7/10/2009	1090	A		7/10/2009	89.0
7/11/2009	1020	A		7/11/2009	59.0
7/12/2009	1090	A		7/12/2009	63.0
7/13/2009	976	A		7/13/2009	58.0
7/14/2009	922	A		7/14/2009	65.0
7/15/2009	848	A		7/15/2009	62.0
7/16/2009	748	A		7/16/2009	59.0
7/17/2009	696	A		7/17/2009	52.0
7/18/2009	658	A		7/18/2009	49.0
7/19/2009	634	A		7/19/2009	47.0
7/20/2009	601	A		7/20/2009	49.3
7/21/2009	576	A		7/21/2009	49.2
7/22/2009	535	A		7/22/2009	38.6
7/23/2009	492	A		7/23/2009	29.2
7/24/2009	472	A		7/24/2009	26.9
7/25/2009	450	A		7/25/2009	22.2
7/26/2009	459	A		7/26/2009	19.1
7/27/2009	513	A		7/27/2009	33.2
7/28/2009	476	A		7/28/2009	29.1
7/29/2009	451	A		7/29/2009	14.2
7/30/2009	597	A		7/30/2009	24.2
7/31/2009	573	A		7/31/2009	44.2
8/1/2009	562	A		8/1/2009	32.8
8/2/2009	474	A		8/2/2009	29.4
8/3/2009	420	A		8/3/2009	13.2
8/4/2009	385	A		8/4/2009	12.5
8/5/2009	350	A		8/5/2009	10.6
8/6/2009	332	A		8/6/2009	2.0
8/7/2009	357	A		8/7/2009	6.5
8/8/2009	320	A		8/8/2009	6.3
8/9/2009	291	A		8/9/2009	5.2
8/10/2009	275	A		8/10/2009	5.7
8/11/2009	257	A		8/11/2009	2.1
8/12/2009	243	A		8/12/2009	2.7
8/13/2009	233	A		8/13/2009	0.1
8/14/2009	234	A		8/14/2009	-4.6
8/15/2009	286	A		8/15/2009	-15.7
8/16/2009	299	A		8/16/2009	9.7
8/17/2009	255	A		8/17/2009	8.5
8/18/2009	226	A		8/18/2009	1.5
8/19/2009	216	A		8/19/2009	4.8
8/20/2009	199	A		8/20/2009	4.1

8/21/2009	192	A		8/21/2009	5.2
8/22/2009	183	A		8/22/2009	5.3
8/23/2009	176	A		8/23/2009	4.5
8/24/2009	183	A		8/24/2009	3.2
8/25/2009	190	A		8/25/2009	5.0
8/26/2009	183	A		8/26/2009	8.4
8/27/2009	174	A		8/27/2009	8.1
8/28/2009	161	A		8/28/2009	7.8
8/29/2009	154	A		8/29/2009	6.5
8/30/2009	150	A		8/30/2009	8.1
8/31/2009	153	A		8/31/2009	6.5
9/1/2009	147	A		9/1/2009	8.3
9/2/2009	139	A		9/2/2009	10.0
9/3/2009	135	A		9/3/2009	9.5
9/4/2009	132	A		9/4/2009	10.9
9/5/2009	135	A		9/5/2009	10.3
9/6/2009	135	A		9/6/2009	12.7
9/7/2009	141	A		9/7/2009	14.2
9/8/2009	138	A		9/8/2009	16.5
9/9/2009	131	A		9/9/2009	13.9
9/10/2009	128	A		9/10/2009	11.1
9/11/2009	127	A		9/11/2009	12.0
9/12/2009	126	A		9/12/2009	11.4
9/13/2009	134	A		9/13/2009	7.9
9/14/2009	149	A		9/14/2009	15.8
9/15/2009	150	A		9/15/2009	10.9
9/16/2009	164	A		9/16/2009	21.7
9/17/2009	147	A		9/17/2009	20.6
9/18/2009	132	A		9/18/2009	13.7
9/19/2009	132	A		9/19/2009	16.8
9/20/2009	128	A		9/20/2009	13.9
9/21/2009	170	A		9/21/2009	9.8
9/22/2009	187	A		9/22/2009	22.4
9/23/2009	168	A		9/23/2009	24.5
9/24/2009	158	A		9/24/2009	19.7
9/25/2009	156	A		9/25/2009	18.9
9/26/2009	157	A		9/26/2009	18.4
9/27/2009	148	A		9/27/2009	16.1
9/28/2009	144	A		9/28/2009	15.9
9/29/2009	138	A		9/29/2009	16.8
9/30/2009	132	A		9/30/2009	12.0
10/1/2009	147	A		10/1/2009	15.8
10/2/2009	143	A		10/2/2009	21.3
10/3/2009	137	A		10/3/2009	12.5
10/4/2009	144	A		10/4/2009	19.1
10/5/2009	155	A		10/5/2009	12.5
10/6/2009	165	A		10/6/2009	26.8

10/7/2009	155	A		10/7/2009	21.8
10/8/2009	160	A		10/8/2009	21.4
10/9/2009	157	A		10/9/2009	25.0
10/10/2009	152	A		10/10/2009	23.6
10/11/2009	148	A		10/11/2009	23.3
10/12/2009	142	A		10/12/2009	18.0
10/13/2009	143	A		10/13/2009	14.2
10/14/2009	147	A		10/14/2009	13.5
10/15/2009	174	A		10/15/2009	23.2
10/16/2009	166	A		10/16/2009	30.2
10/17/2009	153	A		10/17/2009	22.2
10/18/2009	152	A		10/18/2009	19.7
10/19/2009	156	A		10/19/2009	20.7
10/20/2009	163	A		10/20/2009	22.4
10/21/2009	168	A		10/21/2009	22.0
10/22/2009	164	A		10/22/2009	29.3
10/23/2009	159	A		10/23/2009	24.7
10/24/2009	158	A		10/24/2009	23.3
10/25/2009	164	A		10/25/2009	24.2
10/26/2009	143	A		10/26/2009	34.9
10/27/2009	147	A		10/27/2009	9.9
10/28/2009	157	A		10/28/2009	24.9
10/29/2009	134	A		10/29/2009	29.3
10/30/2009	128	A		10/30/2009	15.6
10/31/2009	144	A		10/31/2009	15.0
11/1/2009	146	A		11/1/2009	21.5
11/2/2009	144	A		11/2/2009	19.8
11/3/2009	139	A		11/3/2009	19.7
11/4/2009	136	A		11/4/2009	19.4
11/5/2009	136	A		11/5/2009	18.2
11/6/2009	140	A		11/6/2009	18.2
11/7/2009	138	A		11/7/2009	17.6
11/8/2009	136	A		11/8/2009	19.6
11/9/2009	133	A		11/9/2009	17.9
11/10/2009	126	A		11/10/2009	16.9
11/11/2009	123	A		11/11/2009	15.4
11/12/2009	127	A		11/12/2009	14.5
11/13/2009	129	A		11/13/2009	14.0
11/14/2009	132	A		11/14/2009	19.5
11/15/2009	125	A		11/15/2009	18.7
11/16/2009	113	A		11/16/2009	35.9
11/17/2009	101	A		11/17/2009	13.8
11/18/2009	122	A		11/18/2009	22.0
11/19/2009	121	A		11/19/2009	27.4
11/20/2009	105	A		11/20/2009	24.7
11/21/2009	106	A		11/21/2009	20.4
11/22/2009	115	A		11/22/2009	18.2

11/23/2009	114	A		11/23/2009	19.4
11/24/2009	95.1	A:e		11/24/2009	21.0
11/25/2009	99.2	A:e		11/25/2009	20.3
11/26/2009	108	A:e		11/26/2009	23.2
11/27/2009	108	A:e		11/27/2009	24.6
11/28/2009	108	A:e		11/28/2009	23.9
11/29/2009	106	A		11/29/2009	21.4
11/30/2009	98.8	A:e		11/30/2009	23.0
12/1/2009	105	A:e		12/1/2009	22.9
12/2/2009	93.7	A:e		12/2/2009	23.4
12/3/2009	73.2	A:e		12/3/2009	23.2
12/4/2009	71.1	A:e		12/4/2009	22.4
12/5/2009	74.7	A:e		12/5/2009	16.5
12/6/2009	78	A:e		12/6/2009	11.9
12/7/2009	82.8	A:e		12/7/2009	11.9
12/8/2009	82.8	A:e		12/8/2009	16.1
12/9/2009	81.2	A:e		12/9/2009	15.0
12/10/2009	82.8	A:e		12/10/2009	15.0
12/11/2009	82.9	A:e		12/11/2009	15.2
12/12/2009	86.6	A:e		12/12/2009	13.4
12/13/2009	90.8	A:e		12/13/2009	14.2
12/14/2009	91	A:e		12/14/2009	13.1
12/15/2009	90.3	A:e		12/15/2009	13.3
12/16/2009	90.3	A:e		12/16/2009	13.6
12/17/2009	94.9	A:e		12/17/2009	12.5
12/18/2009	94.7	A:e		12/18/2009	12.9
12/19/2009	84.8	A:e		12/19/2009	14.4
12/20/2009	92.4	A:e		12/20/2009	14.0
12/21/2009	88.2	A:e		12/21/2009	15.1
12/22/2009	86.8	A:e		12/22/2009	15.1
12/23/2009	89.3	A:e		12/23/2009	14.1
12/24/2009	85.8	A:e		12/24/2009	13.4
12/25/2009	82.4	A:e		12/25/2009	13.9
12/26/2009	84.1	A:e		12/26/2009	13.6
12/27/2009	85.9	A:e		12/27/2009	14.8
12/28/2009	78.7	A:e		12/28/2009	14.4
12/29/2009	86.1	A:e		12/29/2009	12.2
12/30/2009	87.8	A:e		12/30/2009	11.6
12/31/2009	88	A:e		12/31/2009	12.0
1/1/2010	91.4	A:e		1/1/2010	10.8
1/2/2010	91.4	A:e		1/2/2010	10.7
1/3/2010	87.2	A:e		1/3/2010	12.3
1/4/2010	84.1	A:e		1/4/2010	12.2
1/5/2010	83.8	A:e		1/5/2010	12.2
1/6/2010	88.6	A:e		1/6/2010	9.5
1/7/2010	84.3	A:e		1/7/2010	9.9
1/8/2010	72	A:e		1/8/2010	16.3

1/9/2010	82.6	A:e		1/9/2010	13.9
1/10/2010	89.5	A:e		1/10/2010	9.9
1/11/2010	88	A:e		1/11/2010	9.8
1/12/2010	85.6	A:e		1/12/2010	10.5
1/13/2010	86.4	A:e		1/13/2010	10.1
1/14/2010	83.8	A:e		1/14/2010	13.2
1/15/2010	78.7	A:e		1/15/2010	9.6
1/16/2010	80.3	A:e		1/16/2010	9.2
1/17/2010	87.3	A:e		1/17/2010	9.5
1/18/2010	86.4	A:e		1/18/2010	10.5
1/19/2010	84.8	A:e		1/19/2010	11.2
1/20/2010	84.8	A:e		1/20/2010	11.2
1/21/2010	86.1	A:e		1/21/2010	11.2
1/22/2010	89	A:e		1/22/2010	10.7
1/23/2010	87.5	A:e		1/23/2010	10.8
1/24/2010	87.2	A:e		1/24/2010	10.9
1/25/2010	85.2	A:e		1/25/2010	11.1
1/26/2010	84.2	A:e		1/26/2010	11.3
1/27/2010	88.8	A:e		1/27/2010	10.5
1/28/2010	88.3	A:e		1/28/2010	10.7
1/29/2010	88.3	A:e		1/29/2010	10.6
1/30/2010	83.7	A:e		1/30/2010	10.5
1/31/2010	87.1	A:e		1/31/2010	10.6
2/1/2010	87.8	A:e		2/1/2010	10.9
2/2/2010	81.5	A:e		2/2/2010	12.4
2/3/2010	87.1	A:e		2/3/2010	12.6
2/4/2010	89.4	A:e		2/4/2010	12.3
2/5/2010	85.5	A:e		2/5/2010	13.0
2/6/2010	85.5	A:e		2/6/2010	12.1
2/7/2010	85.3	A:e		2/7/2010	12.6
2/8/2010	85.3	A:e		2/8/2010	12.6
2/9/2010	81.3	A:e		2/9/2010	14.0
2/10/2010	84.9	A:e		2/10/2010	13.6
2/11/2010	87.6	A:e		2/11/2010	13.5
2/12/2010	84.9	A:e		2/12/2010	13.7
2/13/2010	85.2	A:e		2/13/2010	13.7
2/14/2010	84.8	A:e		2/14/2010	14.5
2/15/2010	78.5	A:e		2/15/2010	14.9
2/16/2010	85.7	A:e		2/16/2010	13.3
2/17/2010	83	A:e		2/17/2010	13.5
2/18/2010	82.5	A:e		2/18/2010	13.4
2/19/2010	83.2	A:e		2/19/2010	13.7
2/20/2010	83.8	A:e		2/20/2010	13.5
2/21/2010	83.4	A:e		2/21/2010	13.5
2/22/2010	82.9	A:e		2/22/2010	13.9
2/23/2010	76	A:e		2/23/2010	15.0
2/24/2010	87.4	A:e		2/24/2010	17.4

2/25/2010	95.1	A:e		2/25/2010	18.3
2/26/2010	81.6	A:e		2/26/2010	15.7
2/27/2010	79.8	A:e		2/27/2010	16.0
2/28/2010	84.9	A:e		2/28/2010	16.5
3/1/2010	84	A:e		3/1/2010	16.9
3/2/2010	83.2	A:e		3/2/2010	16.7
3/3/2010	85.9	A:e		3/3/2010	17.1
3/4/2010	87	A:e		3/4/2010	17.9
3/5/2010	87.6	A:e		3/5/2010	18.5
3/6/2010	83.5	A:e		3/6/2010	17.2
3/7/2010	85.3	A:e		3/7/2010	17.8
3/8/2010	89.5	A:e		3/8/2010	19.3
3/9/2010	87.1	A:e		3/9/2010	18.9
3/10/2010	85.9	A:e		3/10/2010	18.6
3/11/2010	83.7	A:e		3/11/2010	17.8
3/12/2010	82.2	A:e		3/12/2010	17.1
3/13/2010	84.4	A:e		3/13/2010	18.4
3/14/2010	86.6	A:e		3/14/2010	20.2
3/15/2010	84.8	A:e		3/15/2010	19.7
3/16/2010	88.6	A:e		3/16/2010	21.1
3/17/2010	90.2	A:e		3/17/2010	18.4
3/18/2010	91.2	A:e		3/18/2010	18.1
3/19/2010	97.2	A		3/19/2010	21.5
3/20/2010	79.7	A		3/20/2010	14.0
3/21/2010	81.7	A		3/21/2010	13.8
3/22/2010	92.4	A		3/22/2010	20.7
3/23/2010	94.5	A		3/23/2010	22.2
3/24/2010	91.4	A		3/24/2010	21.3
3/25/2010	86.7	A		3/25/2010	18.9
3/26/2010	89.7	A		3/26/2010	17.6
3/27/2010	89.3	A		3/27/2010	20.7
3/28/2010	84.6	A		3/28/2010	18.0
3/29/2010	89.1	A		3/29/2010	17.9
3/30/2010	95.5	A		3/30/2010	17.4
3/31/2010	114	A		3/31/2010	20.1
4/1/2010	129	A		4/1/2010	28.7
4/2/2010	112	A		4/2/2010	27.8
4/3/2010	105	A		4/3/2010	25.6
4/4/2010	105	A		4/4/2010	25.9
4/5/2010	104	A		4/5/2010	24.5
4/6/2010	118	A		4/6/2010	32.9
4/7/2010	107	A		4/7/2010	27.3
4/8/2010	109	A		4/8/2010	25.8
4/9/2010	124	A		4/9/2010	25.4
4/10/2010	145	A		4/10/2010	25.0
4/11/2010	161	A		4/11/2010	19.5
4/12/2010	210	A		4/12/2010	19.1

4/13/2010	274	A		4/13/2010	30.7
4/14/2010	240	A		4/14/2010	26.8
4/15/2010	285	A		4/15/2010	17.2
4/16/2010	352	A		4/16/2010	9.1
4/17/2010	465	A		4/17/2010	34.4
4/18/2010	420	A		4/18/2010	37.2
4/19/2010	463	A		4/19/2010	32.8
4/20/2010	529	A		4/20/2010	34.7
4/21/2010	616	A		4/21/2010	32.4
4/22/2010	816	A		4/22/2010	72.1
4/23/2010	714	A		4/23/2010	96.6
4/24/2010	560	A		4/24/2010	78.2
4/25/2010	477	A		4/25/2010	62.8
4/26/2010	430	A		4/26/2010	54.7
4/27/2010	404	A		4/27/2010	47.8
4/28/2010	447	A		4/28/2010	45.1
4/29/2010	494	A		4/29/2010	60.3
4/30/2010	431	A		4/30/2010	63.0
5/1/2010	406	A		5/1/2010	69.6
5/2/2010	383	A		5/2/2010	68.7
5/3/2010	352	A		5/3/2010	58.7
5/4/2010	372	A		5/4/2010	55.0
5/5/2010	414	A		5/5/2010	56.7
5/6/2010	469	A		5/6/2010	58.7
5/7/2010	455	A		5/7/2010	74.5
5/8/2010	442	A		5/8/2010	68.5
5/9/2010	454	A		5/9/2010	60.2
5/10/2010	590	A		5/10/2010	69.8
5/11/2010	585	A		5/11/2010	76.7
5/12/2010	615	A		5/12/2010	86.4
5/13/2010	583	A		5/13/2010	77.8
5/14/2010	574	A		5/14/2010	67.1
5/15/2010	659	A		5/15/2010	92.8
5/16/2010	620	A		5/16/2010	84.1
5/17/2010	658	A		5/17/2010	74.4
5/18/2010	826	A		5/18/2010	74.0
5/19/2010	1040	A		5/19/2010	105.1
5/20/2010	1010	A		5/20/2010	111.3
5/21/2010	1180	A		5/21/2010	101.3
5/22/2010	1570	A		5/22/2010	146.0
5/23/2010	1790	A		5/23/2010	135.0
5/24/2010	2180	A		5/24/2010	271.0
5/25/2010	1570	A		5/25/2010	230.0
5/26/2010	1510	A		5/26/2010	185.4
5/27/2010	1860	A		5/27/2010	79.0
5/28/2010	2840	A		5/28/2010	43.0
5/29/2010	3930	A		5/29/2010	444.0

5/30/2010	3790	A		5/30/2010	466.0
5/31/2010	3410	A		5/31/2010	383.0
6/1/2010	3410	A		6/1/2010	386.0
6/2/2010	3090	A		6/2/2010	371.0
6/3/2010	2550	A		6/3/2010	200.0
6/4/2010	2840	A		6/4/2010	105.0
6/5/2010	4470	A		6/5/2010	272.0
6/6/2010	5720	A		6/6/2010	749.0
6/7/2010	5680	A		6/7/2010	922.0
6/8/2010	5260	A		6/8/2010	922.0
6/9/2010	4630	A		6/9/2010	737.0
6/10/2010	4460	A		6/10/2010	821.0
6/11/2010	3470	A		6/11/2010	541.0
6/12/2010	3020	A		6/12/2010	424.0
6/13/2010	2910	A		6/13/2010	461.0
6/14/2010	2390	A		6/14/2010	327.0
6/15/2010	2010	A		6/15/2010	251.0
6/16/2010	1920	A		6/16/2010	175.0
6/17/2010	1980	A		6/17/2010	262.0
6/18/2010	1990	A		6/18/2010	217.0
6/19/2010	2040	A		6/19/2010	215.0
6/20/2010	1990	A		6/20/2010	183.0
6/21/2010	1860	A		6/21/2010	212.0
6/22/2010	1710	A		6/22/2010	154.0
6/23/2010	1570	A		6/23/2010	134.0
6/24/2010	1500	A		6/24/2010	120.0
6/25/2010	1440	A		6/25/2010	69.0
6/26/2010	1360	A		6/26/2010	-6.0
6/27/2010	1280	A		6/27/2010	-10.0
6/28/2010	1150	A		6/28/2010	-18.0
6/29/2010	1110	A		6/29/2010	-18.0
6/30/2010	1030	A		6/30/2010	-37.0
7/1/2010	972	A		7/1/2010	-59.0
7/2/2010	991	A		7/2/2010	-27.0
7/3/2010	908	A		7/3/2010	-41.0
7/4/2010	819	A		7/4/2010	-60.0
7/5/2010	760	A		7/5/2010	-59.0
7/6/2010	680	A		7/6/2010	-52.0
7/7/2010	628	A		7/7/2010	-39.0
7/8/2010	626	A		7/8/2010	-22.0
7/9/2010	594	A		7/9/2010	8.0
7/10/2010	553	A		7/10/2010	16.0
7/11/2010	551	A		7/11/2010	20.7
7/12/2010	553	A		7/12/2010	39.3
7/13/2010	496	A		7/13/2010	33.6
7/14/2010	469	A		7/14/2010	31.0
7/15/2010	446	A		7/15/2010	30.1

7/16/2010	411	A		7/16/2010	25.4
7/17/2010	382	A		7/17/2010	18.7
7/18/2010	361	A		7/18/2010	20.4
7/19/2010	353	A		7/19/2010	22.8
7/20/2010	335	A		7/20/2010	26.9
7/21/2010	385	A		7/21/2010	-4.9
7/22/2010	470	A		7/22/2010	54.9
7/23/2010	385	A		7/23/2010	39.0
7/24/2010	344	A		7/24/2010	39.8
7/25/2010	305	A		7/25/2010	30.9
7/26/2010	288	A		7/26/2010	30.6
7/27/2010	271	A		7/27/2010	31.6
7/28/2010	284	A		7/28/2010	29.0
7/29/2010	350	A		7/29/2010	27.1
7/30/2010	406	A		7/30/2010	40.9
7/31/2010	378	A		7/31/2010	50.4
8/1/2010	333	A		8/1/2010	38.6
8/2/2010	444	A		8/2/2010	33.8
8/3/2010	571	A		8/3/2010	52.9
8/4/2010	471	A		8/4/2010	49.2
8/5/2010	466	A		8/5/2010	62.0
8/6/2010	447	A		8/6/2010	47.7
8/7/2010	399	A		8/7/2010	54.0
8/8/2010	364	A		8/8/2010	45.1
8/9/2010	342	A		8/9/2010	46.9
8/10/2010	314	A		8/10/2010	42.7
8/11/2010	282	A		8/11/2010	39.2
8/12/2010	280	A		8/12/2010	33.7
8/13/2010	282	A		8/13/2010	38.8
8/14/2010	250	A		8/14/2010	38.1
8/15/2010	222	A		8/15/2010	31.9
8/16/2010	219	A		8/16/2010	29.9
8/17/2010	248	A		8/17/2010	33.3
8/18/2010	224	A		8/18/2010	39.4
8/19/2010	215	A		8/19/2010	19.4
8/20/2010	314	A		8/20/2010	42.8
8/21/2010	274	A		8/21/2010	51.0
8/22/2010	230	A		8/22/2010	36.0
8/23/2010	214	A		8/23/2010	33.4
8/24/2010	201	A		8/24/2010	30.5
8/25/2010	186	A		8/25/2010	28.5
8/26/2010	175	A		8/26/2010	27.2
8/27/2010	165	A		8/27/2010	23.8
8/28/2010	160	A		8/28/2010	21.8
8/29/2010	162	A		8/29/2010	20.5
8/30/2010	162	A		8/30/2010	23.6
8/31/2010	159	A		8/31/2010	25.5

9/1/2010	145	A		9/1/2010	25.4
9/2/2010	134	A		9/2/2010	23.4
9/3/2010	127	A		9/3/2010	21.4
9/4/2010	128	A		9/4/2010	19.6
9/5/2010	127	A		9/5/2010	18.1
9/6/2010	125	A		9/6/2010	23.8
9/7/2010	117	A		9/7/2010	18.4
9/8/2010	123	A		9/8/2010	18.8
9/9/2010	142	A		9/9/2010	25.7
9/10/2010	134	A		9/10/2010	26.3
9/11/2010	129	A		9/11/2010	23.7
9/12/2010	125	A		9/12/2010	23.8
9/13/2010	125	A		9/13/2010	25.5
9/14/2010	116	A		9/14/2010	23.8
9/15/2010	110	A		9/15/2010	19.9
9/16/2010	108	A		9/16/2010	19.4
9/17/2010	104	A		9/17/2010	17.5
9/18/2010	110	A		9/18/2010	21.1
9/19/2010	102	A		9/19/2010	18.1
9/20/2010	102	A		9/20/2010	19.7
9/21/2010	101	A		9/21/2010	21.0
9/22/2010	100	A		9/22/2010	18.2
9/23/2010	133	A		9/23/2010	18.4
9/24/2010	143	A		9/24/2010	31.3
9/25/2010	126	A		9/25/2010	29.3
9/26/2010	114	A		9/26/2010	24.0
9/27/2010	113	A		9/27/2010	24.0
9/28/2010	110	A		9/28/2010	25.4
9/29/2010	102	A		9/29/2010	21.2
9/30/2010	104	A		9/30/2010	23.2
10/1/2010	99.5	A		10/1/2010	21.5
10/2/2010	97.4	A		10/2/2010	19.3
10/3/2010	97.9	A		10/3/2010	20.3
10/4/2010	98.6	A		10/4/2010	19.1
10/5/2010	102	A		10/5/2010	23.5
10/6/2010	101	A		10/6/2010	21.5
10/7/2010	114	A		10/7/2010	22.3
10/8/2010	124	A		10/8/2010	25.0
10/9/2010	125	A		10/9/2010	25.0
10/10/2010	125	A		10/10/2010	26.2
10/11/2010	124	A		10/11/2010	26.8
10/12/2010	130	A		10/12/2010	24.9
10/13/2010	134	A		10/13/2010	26.0
10/14/2010	129	A		10/14/2010	29.1
10/15/2010	124	A		10/15/2010	26.5
10/16/2010	118	A		10/16/2010	25.2
10/17/2010	113	A		10/17/2010	23.7

10/18/2010	111	A		10/18/2010	23.5
10/19/2010	117	A		10/19/2010	24.0
10/20/2010	122	A		10/20/2010	28.7
10/21/2010	118	A		10/21/2010	26.7
10/22/2010	123	A		10/22/2010	23.6
10/23/2010	155	A		10/23/2010	20.5
10/24/2010	165	A		10/24/2010	36.6
10/25/2010	196	A		10/25/2010	20.2
10/26/2010	202	A		10/26/2010	48.9
10/27/2010	171	A		10/27/2010	33.5
10/28/2010	148	A		10/28/2010	31.3
10/29/2010	165	A		10/29/2010	29.5
10/30/2010	166	A		10/30/2010	32.7
10/31/2010	174	A		10/31/2010	29.2
11/1/2010	168	A		11/1/2010	34.9
11/2/2010	154	A		11/2/2010	34.0
11/3/2010	155	A		11/3/2010	30.1
11/4/2010	154	A		11/4/2010	29.0
11/5/2010	159	A		11/5/2010	33.1
11/6/2010	161	A		11/6/2010	28.2
11/7/2010	165	A		11/7/2010	29.0
11/8/2010	158	A		11/8/2010	31.9
11/9/2010	162	A		11/9/2010	28.9
11/10/2010	149	A		11/10/2010	39.8
11/11/2010	133	A		11/11/2010	27.6
11/12/2010	132	A		11/12/2010	34.4
11/13/2010	117	A		11/13/2010	22.7
11/14/2010	130	A		11/14/2010	31.3
11/15/2010	130	A		11/15/2010	28.7
11/16/2010	130	A		11/16/2010	28.9
11/17/2010	132	A		11/17/2010	32.4
11/18/2010	131	A		11/18/2010	32.2
11/19/2010	137	A		11/19/2010	34.9
11/20/2010	131	A		11/20/2010	31.3
11/21/2010	138	A		11/21/2010	33.5
11/22/2010	131	A		11/22/2010	33.5
11/23/2010	125	A:e		11/23/2010	39.4
11/24/2010	130	A:e		11/24/2010	35.8
11/25/2010	103	A:e		11/25/2010	33.8
11/26/2010	93	A:e		11/26/2010	20.9
11/27/2010	113	A:e		11/27/2010	24.4
11/28/2010	114	A:e		11/28/2010	26.5
11/29/2010	117	A:e		11/29/2010	26.1
11/30/2010	111	A:e		11/30/2010	27.1
12/1/2010	124	A:e		12/1/2010	37.2
12/2/2010	133	A:e		12/2/2010	38.7
12/3/2010	132	A:e		12/3/2010	36.4

12/4/2010	132	A:e		12/4/2010	34.1
12/5/2010	126	A		12/5/2010	32.3
12/6/2010	112	A		12/6/2010	25.0
12/7/2010	115	A		12/7/2010	25.4
12/8/2010	104	A:e		12/8/2010	25.8
12/9/2010	110	A		12/9/2010	21.3
12/10/2010	111	A		12/10/2010	20.4
12/11/2010	110	A		12/11/2010	25.5
12/12/2010	108	A:e		12/12/2010	23.8
12/13/2010	109	A:e		12/13/2010	21.3
12/14/2010	116	A		12/14/2010	20.8
12/15/2010	115	A		12/15/2010	22.2
12/16/2010	107	A		12/16/2010	25.6
12/17/2010	98.4	A		12/17/2010	31.7
12/18/2010	111	A		12/18/2010	23.8
12/19/2010	113	A		12/19/2010	19.2
12/20/2010	125	A		12/20/2010	21.2
12/21/2010	132	A		12/21/2010	27.3
12/22/2010	129	A		12/22/2010	24.4
12/23/2010	129	A		12/23/2010	23.8
12/24/2010	126	A		12/24/2010	27.2
12/25/2010	103	A:e		12/25/2010	26.9
12/26/2010	105	A:e		12/26/2010	24.0
12/27/2010	123	A		12/27/2010	21.6
12/28/2010	105	A:e		12/28/2010	25.8
12/29/2010	105	A:e		12/29/2010	24.5
12/30/2010	114	A:e		12/30/2010	23.2
12/31/2010	104	A:e		12/31/2010	26.4
1/1/2011	92.9	A:e		1/1/2011	29.5
1/2/2011	99.8	A:e		1/2/2011	25.9
1/3/2011	117	A:e		1/3/2011	24.8
1/4/2011	118	A:e		1/4/2011	25.7
1/5/2011	123	A:e		1/5/2011	27.1
1/6/2011	120	A:e		1/6/2011	26.6
1/7/2011	113	A:e		1/7/2011	24.7
1/8/2011	118	A:e		1/8/2011	25.4
1/9/2011	121	A:e		1/9/2011	25.2
1/10/2011	104	A:e		1/10/2011	24.8
1/11/2011	92.8	A:e		1/11/2011	24.5
1/12/2011	106	A:e		1/12/2011	24.9
1/13/2011	121	A:e		1/13/2011	25.7
1/14/2011	119	A:e		1/14/2011	26.7
1/15/2011	114	A:e		1/15/2011	24.8
1/16/2011	114	A:e		1/16/2011	25.6
1/17/2011	117	A:e		1/17/2011	24.1
1/18/2011	117	A:e		1/18/2011	26.0
1/19/2011	115	A:e		1/19/2011	25.0

1/20/2011	103	A:e		1/20/2011	25.7
1/21/2011	113	A:e		1/21/2011	26.3
1/22/2011	108	A:e		1/22/2011	24.6
1/23/2011	109	A:e		1/23/2011	27.4
1/24/2011	109	A:e		1/24/2011	25.2
1/25/2011	101	A:e		1/25/2011	28.5
1/26/2011	115	A:e		1/26/2011	27.1
1/27/2011	107	A:e		1/27/2011	26.2
1/28/2011	105	A:e		1/28/2011	25.9
1/29/2011	106	A:e		1/29/2011	25.4
1/30/2011	107	A:e		1/30/2011	27.6
1/31/2011	105	A:e		1/31/2011	26.8
2/1/2011	96	A:e		2/1/2011	29.3
2/2/2011	85.6	A:e		2/2/2011	29.4
2/3/2011	88.2	A:e		2/3/2011	29.1
2/4/2011	105	A:e		2/4/2011	33.7
2/5/2011	108	A:e		2/5/2011	29.4
2/6/2011	107	A:e		2/6/2011	29.1
2/7/2011	104	A:e		2/7/2011	27.8
2/8/2011	107	A:e		2/8/2011	29.3
2/9/2011	103	A:e		2/9/2011	30.9
2/10/2011	100	A:e		2/10/2011	33.5
2/11/2011	108	A:e		2/11/2011	34.9
2/12/2011	106	A:e		2/12/2011	28.0
2/13/2011	108	A:e		2/13/2011	27.7
2/14/2011	109	A:e		2/14/2011	28.1
2/15/2011	109	A:e		2/15/2011	27.6
2/16/2011	110	A:e		2/16/2011	28.0
2/17/2011	111	A:e		2/17/2011	28.4
2/18/2011	108	A:e		2/18/2011	28.5
2/19/2011	109	A:e		2/19/2011	28.1
2/20/2011	112	A:e		2/20/2011	28.1
2/21/2011	106	A:e		2/21/2011	26.9
2/22/2011	103	A:e		2/22/2011	28.5
2/23/2011	106	A:e		2/23/2011	28.1
2/24/2011	109	A:e		2/24/2011	27.3
2/25/2011	107	A:e		2/25/2011	27.7
2/26/2011	107	A:e		2/26/2011	27.8
2/27/2011	107	A:e		2/27/2011	28.6
2/28/2011	110	A:e		2/28/2011	28.8
3/1/2011	108	A:e		3/1/2011	29.3
3/2/2011	113	A:e		3/2/2011	30.9
3/3/2011	124	A:e		3/3/2011	35.3
3/4/2011	122	A:e		3/4/2011	35.1
3/5/2011	110	A:e		3/5/2011	32.9
3/6/2011	124	A		3/6/2011	36.4
3/7/2011	124	A		3/7/2011	38.5

3/8/2011	118	A		3/8/2011	34.3
3/9/2011	113	A		3/9/2011	31.3
3/10/2011	113	A		3/10/2011	30.7
3/11/2011	133	A		3/11/2011	43.3
3/12/2011	139	A		3/12/2011	44.6
3/13/2011	146	A		3/13/2011	45.4
3/14/2011	131	A		3/14/2011	39.1
3/15/2011	141	A		3/15/2011	39.9
3/16/2011	150	A		3/16/2011	42.4
3/17/2011	168	A		3/17/2011	39.7
3/18/2011	164	A		3/18/2011	40.3
3/19/2011	163	A		3/19/2011	34.3
3/20/2011	165	A		3/20/2011	36.3
3/21/2011	168	A		3/21/2011	33.5
3/22/2011	187	A		3/22/2011	38.8
3/23/2011	165	A		3/23/2011	34.1
3/24/2011	158	A		3/24/2011	31.2
3/25/2011	153	A		3/25/2011	31.6
3/26/2011	154	A		3/26/2011	33.7
3/27/2011	155	A		3/27/2011	35.6
3/28/2011	161	A		3/28/2011	40.2
3/29/2011	146	A		3/29/2011	32.7
3/30/2011	150	A		3/30/2011	34.5
3/31/2011	151	A		3/31/2011	35.4
4/1/2011	159	A		4/1/2011	36.7
4/2/2011	183	A		4/2/2011	34.0
4/3/2011	251	A		4/3/2011	52.5
4/4/2011	218	A		4/4/2011	47.6
4/5/2011	214	A		4/5/2011	46.0
4/6/2011	241	A		4/6/2011	62.9
4/7/2011	233	A		4/7/2011	57.9
4/8/2011	246	A		4/8/2011	54.2
4/9/2011	275	A		4/9/2011	51.2
4/10/2011	288	A		4/10/2011	65.5
4/11/2011	254	A		4/11/2011	56.9
4/12/2011	259	A		4/12/2011	54.1
4/13/2011	276	A		4/13/2011	53.1
4/14/2011	318	A		4/14/2011	70.1
4/15/2011	279	A		4/15/2011	61.9
4/16/2011	273	A		4/16/2011	64.0
4/17/2011	263	A		4/17/2011	61.7
4/18/2011	290	A		4/18/2011	57.6
4/19/2011	418	A		4/19/2011	69.7
4/20/2011	352	A		4/20/2011	85.5
4/21/2011	436	A		4/21/2011	109.7
4/22/2011	446	A		4/22/2011	113.8
4/23/2011	422	A		4/23/2011	106.0

4/24/2011	400	A		4/24/2011	101.7
4/25/2011	408	A		4/25/2011	108.3
4/26/2011	396	A		4/26/2011	111.9
4/27/2011	358	A		4/27/2011	99.3
4/28/2011	324	A		4/28/2011	84.8
4/29/2011	361	A		4/29/2011	91.9
4/30/2011	346	A		4/30/2011	92.5
5/1/2011	320	A		5/1/2011	86.9
5/2/2011	300	A		5/2/2011	79.1
5/3/2011	287	A		5/3/2011	73.4
5/4/2011	301	A		5/4/2011	74.8
5/5/2011	315	A		5/5/2011	68.4
5/6/2011	397	A		5/6/2011	79.2
5/7/2011	560	A		5/7/2011	116.1
5/8/2011	818	A		5/8/2011	155.2
5/9/2011	1080	A		5/9/2011	180.5
5/10/2011	1040	A		5/10/2011	182.9
5/11/2011	1070	A		5/11/2011	212.8
5/12/2011	889	A		5/12/2011	196.0
5/13/2011	768	A		5/13/2011	156.1
5/14/2011	887	A		5/14/2011	170.1
5/15/2011	1050	A		5/15/2011	173.4
5/16/2011	1390	A		5/16/2011	160.0
5/17/2011	1680	A		5/17/2011	226.5
5/18/2011	1480	A		5/18/2011	224.1
5/19/2011	1310	A		5/19/2011	221.3
5/20/2011	1120	A		5/20/2011	237.6
5/21/2011	1030	A		5/21/2011	262.2
5/22/2011	972	A		5/22/2011	266.9
5/23/2011	1080	A		5/23/2011	299.5
5/24/2011	1160	A		5/24/2011	309.9
5/25/2011	1100	A		5/25/2011	316.0
5/26/2011	1140	A		5/26/2011	304.2
5/27/2011	1460	A		5/27/2011	271.4
5/28/2011	1670	A		5/28/2011	276.9
5/29/2011	2280	A		5/29/2011	267.0
5/30/2011	2840	A		5/30/2011	315.0
5/31/2011	2200	A		5/31/2011	259.0
6/1/2011	2320	A		6/1/2011	278.0
6/2/2011	2770	A		6/2/2011	240.0
6/3/2011	3480	A		6/3/2011	281.0
6/4/2011	3340	A		6/4/2011	193.0
6/5/2011	3830	A		6/5/2011	160.0
6/6/2011	4540	A		6/6/2011	233.0
6/7/2011	5310	A		6/7/2011	527.0
6/8/2011	4810	A		6/8/2011	507.0
6/9/2011	4660	A		6/9/2011	614.0

6/10/2011	4470	A		6/10/2011	572.0
6/11/2011	4320	A		6/11/2011	470.0
6/12/2011	4320	A		6/12/2011	461.0
6/13/2011	4310	A		6/13/2011	445.0
6/14/2011	4280	A		6/14/2011	407.0
6/15/2011	4170	A		6/15/2011	297.0
6/16/2011	4400	A		6/16/2011	202.0
6/17/2011	4940	A		6/17/2011	348.0
6/18/2011	4290	A		6/18/2011	364.0
6/19/2011	3880	A		6/19/2011	437.0
6/20/2011	3780	A		6/20/2011	526.0
6/21/2011	3130	A		6/21/2011	506.0
6/22/2011	3150	A		6/22/2011	425.0
6/23/2011	3690	A		6/23/2011	412.0
6/24/2011	4230	A		6/24/2011	401.0
6/25/2011	4670	A		6/25/2011	510.0
6/26/2011	4500	A		6/26/2011	454.0
6/27/2011	4230	A		6/27/2011	310.0
6/28/2011	4150	A		6/28/2011	197.0
6/29/2011	4320	A		6/29/2011	129.0
6/30/2011	4560	A		6/30/2011	111.0
7/1/2011	4320	A		7/1/2011	89.0
7/2/2011	4040	A		7/2/2011	-73.0
7/3/2011	3940	A		7/3/2011	-87.0
7/4/2011	3660	A		7/4/2011	-113.0
7/5/2011	3430	A		7/5/2011	-274.0
7/6/2011	4280	A		7/6/2011	-166.0
7/7/2011	4160	A		7/7/2011	-393.0
7/8/2011	4670	A		7/8/2011	-364.0
7/9/2011	4550	A		7/9/2011	-321.0
7/10/2011	4110	A		7/10/2011	-267.0
7/11/2011	3740	A		7/11/2011	-223.0
7/12/2011	3200	A		7/12/2011	-20.0
7/13/2011	3040	A		7/13/2011	-53.0
7/14/2011	2670	A		7/14/2011	9.0
7/15/2011	2420	A		7/15/2011	50.0
7/16/2011	2140	A		7/16/2011	46.0
7/17/2011	2040	A		7/17/2011	44.0
7/18/2011	2050	A		7/18/2011	21.0
7/19/2011	2270	A		7/19/2011	89.0
7/20/2011	1910	A		7/20/2011	98.0
7/21/2011	1680	A		7/21/2011	78.0
7/22/2011	1490	A		7/22/2011	86.0
7/23/2011	1340	A		7/23/2011	96.0
7/24/2011	1230	A		7/24/2011	77.0
7/25/2011	1180	A		7/25/2011	57.0
7/26/2011	1130	A		7/26/2011	69.0

7/27/2011	1080	A		7/27/2011	104.0
7/28/2011	1010	A		7/28/2011	109.0
7/29/2011	938	A		7/29/2011	101.0
7/30/2011	891	A		7/30/2011	100.0
7/31/2011	846	A		7/31/2011	85.0
8/1/2011	916	A		8/1/2011	99.0
8/2/2011	838	A		8/2/2011	94.0
8/3/2011	911	A		8/3/2011	79.0
8/4/2011	864	A		8/4/2011	103.0
8/5/2011	767	A		8/5/2011	92.0
8/6/2011	729	A		8/6/2011	77.0
8/7/2011	671	A		8/7/2011	75.0
8/8/2011	617	A		8/8/2011	66.9
8/9/2011	568	A		8/9/2011	64.4
8/10/2011	521	A		8/10/2011	51.5
8/11/2011	478	A		8/11/2011	56.1
8/12/2011	447	A		8/12/2011	48.4
8/13/2011	419	A		8/13/2011	39.9
8/14/2011	404	A		8/14/2011	34.2
8/15/2011	441	A		8/15/2011	41.5
8/16/2011	419	A		8/16/2011	43.8
8/17/2011	390	A		8/17/2011	45.9
8/18/2011	372	A		8/18/2011	40.0
8/19/2011	354	A		8/19/2011	39.9
8/20/2011	351	A		8/20/2011	48.0
8/21/2011	329	A		8/21/2011	49.1
8/22/2011	336	A		8/22/2011	44.6
8/23/2011	326	A		8/23/2011	48.0
8/24/2011	302	A		8/24/2011	43.3
8/25/2011	293	A		8/25/2011	41.9
8/26/2011	313	A		8/26/2011	37.7
8/27/2011	363	A		8/27/2011	45.7
8/28/2011	341	A		8/28/2011	45.8
8/29/2011	367	A		8/29/2011	35.4
8/30/2011	362	A		8/30/2011	46.5
8/31/2011	320	A		8/31/2011	39.6
9/1/2011	295	A		9/1/2011	37.6
9/2/2011	275	A		9/2/2011	34.1
9/3/2011	273	A		9/3/2011	35.4
9/4/2011	249	A		9/4/2011	29.7
9/5/2011	239	A		9/5/2011	30.4
9/6/2011	245	A		9/6/2011	28.1
9/7/2011	328	A		9/7/2011	34.0
9/8/2011	340	A		9/8/2011	44.3
9/9/2011	298	A		9/9/2011	45.4
9/10/2011	271	A		9/10/2011	49.1
9/11/2011	251	A		9/11/2011	48.2

9/12/2011	238	A		9/12/2011	42.3
9/13/2011	234	A		9/13/2011	46.7
9/14/2011	224	A		9/14/2011	42.6
9/15/2011	259	A		9/15/2011	39.8
9/16/2011	308	A		9/16/2011	53.9
9/17/2011	293	A		9/17/2011	54.6
9/18/2011	330	A		9/18/2011	61.9
9/19/2011	297	A		9/19/2011	67.5
9/20/2011	267	A		9/20/2011	63.3
9/21/2011	244	A		9/21/2011	59.5
9/22/2011	226	A		9/22/2011	55.7
9/23/2011	214	A		9/23/2011	55.3
9/24/2011	204	A		9/24/2011	51.1
9/25/2011	199	A		9/25/2011	51.9
9/26/2011	196	A		9/26/2011	49.7
9/27/2011	189	A		9/27/2011	45.1
9/28/2011	199	A		9/28/2011	48.3
9/29/2011	196	A		9/29/2011	48.7
9/30/2011	191	A		9/30/2011	44.8
10/1/2011	193	A		10/1/2011	45.2
10/2/2011	196	A		10/2/2011	46.7
10/3/2011	195	A		10/3/2011	43.4
10/4/2011	196	A		10/4/2011	47.1
10/5/2011	211	A		10/5/2011	41.5
10/6/2011	216	A		10/6/2011	38.2
10/7/2011	226	A		10/7/2011	43.1
10/8/2011	207	A		10/8/2011	34.5
10/9/2011	201	A		10/9/2011	34.8
10/10/2011	194	A		10/10/2011	30.5
10/11/2011	190	A		10/11/2011	31.1
10/12/2011	191	A		10/12/2011	35.0
10/13/2011	185	A		10/13/2011	34.0
10/14/2011	180	A		10/14/2011	29.1
10/15/2011	182	A		10/15/2011	33.4
10/16/2011	178	A		10/16/2011	30.0
10/17/2011	194	A		10/17/2011	27.1
10/18/2011	207	A		10/18/2011	39.7
10/19/2011	187	A		10/19/2011	36.9
10/20/2011	186	A		10/20/2011	33.5
10/21/2011	182	A		10/21/2011	33.4
10/22/2011	175	A		10/22/2011	29.8
10/23/2011	169	A		10/23/2011	31.1
10/24/2011	170	A		10/24/2011	30.8
10/25/2011	173	A		10/25/2011	28.3
10/26/2011	214	A		10/26/2011	35.3
10/27/2011	187	A		10/27/2011	36.0
10/28/2011	173	A		10/28/2011	36.2

10/29/2011	168	A		10/29/2011	27.9
10/30/2011	174	A		10/30/2011	30.7
10/31/2011	175	A		10/31/2011	28.0
11/1/2011	182	A		11/1/2011	29.1
11/2/2011	188	A		11/2/2011	34.5
11/3/2011	151	A		11/3/2011	34.3
11/4/2011	167	A		11/4/2011	20.7
11/5/2011	190	A		11/5/2011	35.6
11/6/2011	170	A		11/6/2011	37.5
11/7/2011	148	A		11/7/2011	27.9
11/8/2011	160	A		11/8/2011	33.1
11/9/2011	140	A		11/9/2011	32.5
11/10/2011	134	A		11/10/2011	32.6
11/11/2011	137	A		11/11/2011	29.9
11/12/2011	152	A		11/12/2011	28.9
11/13/2011	158	A		11/13/2011	35.2
11/14/2011	149	A		11/14/2011	27.2
11/15/2011	149	A		11/15/2011	27.7
11/16/2011	142	A		11/16/2011	34.7
11/17/2011	125	A		11/17/2011	25.1
11/18/2011	141	A		11/18/2011	28.5
11/19/2011	146	A		11/19/2011	32.1
11/20/2011	138	A		11/20/2011	27.2
11/21/2011	135	A		11/21/2011	28.5
11/22/2011	136	A		11/22/2011	24.7
11/23/2011	127	A		11/23/2011	21.6
11/24/2011	129	A		11/24/2011	24.4
11/25/2011	138	A		11/25/2011	28.4
11/26/2011	125	A		11/26/2011	33.8
11/27/2011	101	A		11/27/2011	25.4
11/28/2011	138	A		11/28/2011	41.3
11/29/2011	132	A		11/29/2011	30.7
11/30/2011	123	A		11/30/2011	36.6
12/1/2011	121	A		12/1/2011	29.2
12/2/2011	109	A		12/2/2011	29.0
12/3/2011	121	A		12/3/2011	30.7
12/4/2011	120	A		12/4/2011	38.5
12/5/2011	85.7	A:e		12/5/2011	21.9
12/6/2011	69.2	A:e		12/6/2011	13.4
12/7/2011	81.1	A:e		12/7/2011	16.7
12/8/2011	111	A:e		12/8/2011	32.2
12/9/2011	109	A:e		12/9/2011	31.8
12/10/2011	111	A:e		12/10/2011	33.4
12/11/2011	114	A:e		12/11/2011	36.2
12/12/2011	112	A:e		12/12/2011	35.2
12/13/2011	130	A:e		12/13/2011	44.9
12/14/2011	124	A:e		12/14/2011	41.2

12/15/2011	120	A:e		12/15/2011	39.4
12/16/2011	115	A:e		12/16/2011	36.7
12/17/2011	111	A:e		12/17/2011	35.5
12/18/2011	116	A:e		12/18/2011	37.9
12/19/2011	123	A:e		12/19/2011	41.4
12/20/2011	123	A:e		12/20/2011	42.1
12/21/2011	111	A:e		12/21/2011	35.8
12/22/2011	113	A:e		12/22/2011	36.4
12/23/2011	85	A:e		12/23/2011	22.9
12/24/2011	96.3	A:e		12/24/2011	27.9
12/25/2011	112	A:e		12/25/2011	36.8
12/26/2011	117	A:e		12/26/2011	39.9
12/27/2011	112	A:e		12/27/2011	37.3
12/28/2011	109	A:e		12/28/2011	35.9
12/29/2011	123	A:e		12/29/2011	43.0
12/30/2011	129	A:e		12/30/2011	46.3
12/31/2011	128	A:e		12/31/2011	46.0
1/1/2012	120	A:e		1/1/2012	42.8
1/2/2012	134	A:e		1/2/2012	49.9
1/3/2012	132	A:e		1/3/2012	49.0
1/4/2012	116	A:e		1/4/2012	40.0
1/5/2012	113	A:e		1/5/2012	37.9
1/6/2012	115	A:e		1/6/2012	39.3
1/7/2012	116	A:e		1/7/2012	39.8
1/8/2012	115	A:e		1/8/2012	39.4
1/9/2012	102	A:e		1/9/2012	32.7
1/10/2012	105	A:e		1/10/2012	34.5
1/11/2012	107	A:e		1/11/2012	35.5
1/12/2012	83.1	A:e		1/12/2012	23.2
1/13/2012	109	A:e		1/13/2012	36.5
1/14/2012	110	A:e		1/14/2012	37.8
1/15/2012	114	A:e		1/15/2012	40.0
1/16/2012	118	A:e		1/16/2012	42.2
1/17/2012	101	A:e		1/17/2012	33.0
1/18/2012	113	A:e		1/18/2012	39.2
1/19/2012	126	A:e		1/19/2012	46.0
1/20/2012	127	A:e		1/20/2012	46.3
1/21/2012	122	A:e		1/21/2012	43.7
1/22/2012	129	A:e		1/22/2012	47.9
1/23/2012	118	A:e		1/23/2012	42.0
1/24/2012	129	A:e		1/24/2012	47.6
1/25/2012	121	A:e		1/25/2012	42.6
1/26/2012	122	A:e		1/26/2012	44.0
1/27/2012	126	A:e		1/27/2012	45.2
1/28/2012	107	A:e		1/28/2012	36.3
1/29/2012	128	A:e		1/29/2012	47.4
1/30/2012	128	A:e		1/30/2012	47.6

1/31/2012	123	A:e		1/31/2012	44.9
2/1/2012	117	A:e		2/1/2012	41.9
2/2/2012	120	A:e		2/2/2012	43.3
2/3/2012	117	A:e		2/3/2012	42.3
2/4/2012	110	A:e		2/4/2012	39.2
2/5/2012	106	A:e		2/5/2012	36.3
2/6/2012	119	A:e		2/6/2012	44.3
2/7/2012	114	A:e		2/7/2012	41.6
2/8/2012	107	A:e		2/8/2012	37.4
2/9/2012	119	A:e		2/9/2012	43.7
2/10/2012	114	A:e		2/10/2012	42.2
2/11/2012	117	A:e		2/11/2012	42.5
2/12/2012	114	A:e		2/12/2012	40.9
2/13/2012	113	A:e		2/13/2012	39.9
2/14/2012	112	A:e		2/14/2012	39.2
2/15/2012	112	A:e		2/15/2012	39.4
2/16/2012	108	A:e		2/16/2012	36.4
2/17/2012	105	A:e		2/17/2012	35.9
2/18/2012	110	A:e		2/18/2012	37.7
2/19/2012	106	A:e		2/19/2012	36.1
2/20/2012	110	A:e		2/20/2012	38.1
2/21/2012	100	A:e		2/21/2012	31.4
2/22/2012	101	A:e		2/22/2012	30.1
2/23/2012	99.5	A:e		2/23/2012	30.0
2/24/2012	95.8	A:e		2/24/2012	28.7
2/25/2012	101	A:e		2/25/2012	29.6
2/26/2012	101	A:e		2/26/2012	30.4
2/27/2012	95.8	A:e		2/27/2012	27.8
2/28/2012	105	A:e		2/28/2012	31.9
2/29/2012	101	A:e		2/29/2012	30.0
3/1/2012	101	A:e		3/1/2012	29.3
3/2/2012	102	A:e		3/2/2012	30.5
3/3/2012	103	A:e		3/3/2012	29.7
3/4/2012	109	A:e		3/4/2012	32.5
3/5/2012	108	A:e		3/5/2012	32.6
3/6/2012	111	A		3/6/2012	33.4
3/7/2012	109	A		3/7/2012	33.8
3/8/2012	97.8	A		3/8/2012	26.3
3/9/2012	96.6	A		3/9/2012	23.7
3/10/2012	101	A		3/10/2012	23.4
3/11/2012	109	A		3/11/2012	26.2
3/12/2012	111	A		3/12/2012	26.4
3/13/2012	113	A		3/13/2012	24.5
3/14/2012	115	A		3/14/2012	19.1
3/15/2012	121	A		3/15/2012	20.2
3/16/2012	133	A		3/16/2012	13.1
3/17/2012	148	A		3/17/2012	17.4

3/18/2012	154	A		3/18/2012	22.4
3/19/2012	138	A		3/19/2012	26.0
3/20/2012	122	A		3/20/2012	21.8
3/21/2012	116	A		3/21/2012	22.3
3/22/2012	115	A		3/22/2012	19.0
3/23/2012	129	A		3/23/2012	14.9
3/24/2012	155	A		3/24/2012	10.6
3/25/2012	186	A		3/25/2012	12.4
3/26/2012	216	A		3/26/2012	9.3
3/27/2012	233	A		3/27/2012	15.3
3/28/2012	236	A		3/28/2012	20.9
3/29/2012	250	A		3/29/2012	19.2
3/30/2012	268	A		3/30/2012	18.1
3/31/2012	288	A		3/31/2012	14.0
4/1/2012	330	A		4/1/2012	13.0
4/2/2012	375	A		4/2/2012	23.3
4/3/2012	324	A		4/3/2012	32.5
4/4/2012	279	A		4/4/2012	25.5
4/5/2012	282	A		4/5/2012	19.6
4/6/2012	278	A		4/6/2012	22.5
4/7/2012	268	A		4/7/2012	17.9
4/8/2012	273	A		4/8/2012	30.1
4/9/2012	281	A		4/9/2012	20.3
4/10/2012	335	A		4/10/2012	6.7
4/11/2012	384	A		4/11/2012	10.7
4/12/2012	455	A		4/12/2012	35.8
4/13/2012	416	A		4/13/2012	43.1
4/14/2012	349	A		4/14/2012	36.3
4/15/2012	320	A		4/15/2012	34.7
4/16/2012	301	A		4/16/2012	41.3
4/17/2012	273	A		4/17/2012	33.9
4/18/2012	280	A		4/18/2012	35.0
4/19/2012	314	A		4/19/2012	27.3
4/20/2012	306	A		4/20/2012	41.6
4/21/2012	301	A		4/21/2012	26.3
4/22/2012	350	A		4/22/2012	11.6
4/23/2012	434	A		4/23/2012	21.1
4/24/2012	562	A		4/24/2012	26.0
4/25/2012	632	A		4/25/2012	46.0
4/26/2012	666	A		4/26/2012	34.2
4/27/2012	835	A		4/27/2012	27.0
4/28/2012	646	A		4/28/2012	93.4
4/29/2012	531	A		4/29/2012	88.0
4/30/2012	481	A		4/30/2012	79.0
5/1/2012	494	A		5/1/2012	77.6
5/2/2012	491	A		5/2/2012	75.6
5/3/2012	517	A		5/3/2012	67.3

5/4/2012	647	A		5/4/2012	45.2
5/5/2012	833	A		5/5/2012	23.7
5/6/2012	885	A		5/6/2012	58.4
5/7/2012	724	A		5/7/2012	101.2
5/8/2012	615	A		5/8/2012	102.4
5/9/2012	601	A		5/9/2012	81.3
5/10/2012	706	A		5/10/2012	54.4
5/11/2012	785	A		5/11/2012	59.7
5/12/2012	736	A		5/12/2012	89.2
5/13/2012	696	A		5/13/2012	85.0
5/14/2012	613	A		5/14/2012	92.4
5/15/2012	679	A		5/15/2012	19.0
5/16/2012	829	A		5/16/2012	-9.6
5/17/2012	794	A		5/17/2012	6.8
5/18/2012	822	A		5/18/2012	9.0
5/19/2012	823	A		5/19/2012	17.8
5/20/2012	708	A		5/20/2012	28.8
5/21/2012	679	A		5/21/2012	-14.7
5/22/2012	884	A		5/22/2012	-29.0
5/23/2012	1060	A		5/23/2012	6.0
5/24/2012	934	A		5/24/2012	35.0
5/25/2012	750	A		5/25/2012	21.7
5/26/2012	753	A		5/26/2012	-13.7
5/27/2012	852	A		5/27/2012	6.6
5/28/2012	689	A		5/28/2012	11.9
5/29/2012	671	A		5/29/2012	-12.3
5/30/2012	747	A		5/30/2012	-18.3
5/31/2012	777	A		5/31/2012	-9.0
6/1/2012	841	A		6/1/2012	-16.0
6/2/2012	926	A		6/2/2012	0.0
6/3/2012	815	A		6/3/2012	3.0
6/4/2012	858	A		6/4/2012	-2.0
6/5/2012	838	A		6/5/2012	-2.0
6/6/2012	815	A		6/6/2012	-5.0
6/7/2012	773	A		6/7/2012	-3.0
6/8/2012	731	A		6/8/2012	-4.0
6/9/2012	690	A		6/9/2012	-7.0
6/10/2012	645	A		6/10/2012	-0.3
6/11/2012	527	A		6/11/2012	1.8
6/12/2012	469	A		6/12/2012	-10.8
6/13/2012	443	A		6/13/2012	-15.2
6/14/2012	443	A		6/14/2012	-19.2
6/15/2012	410	A		6/15/2012	-21.7
6/16/2012	387	A		6/16/2012	-29.1
6/17/2012	382	A		6/17/2012	-28.2
6/18/2012	391	A		6/18/2012	-26.6
6/19/2012	366	A		6/19/2012	-27.2

6/20/2012	340	A		6/20/2012	-30.3
6/21/2012	314	A		6/21/2012	-26.8
6/22/2012	301	A		6/22/2012	-27.1
6/23/2012	297	A		6/23/2012	-25.7
6/24/2012	288	A		6/24/2012	-27.3
6/25/2012	277	A		6/25/2012	-18.5
6/26/2012	261	A		6/26/2012	-18.2
6/27/2012	252	A		6/27/2012	-21.3
6/28/2012	245	A		6/28/2012	-20.6
6/29/2012	245	A		6/29/2012	-22.6
6/30/2012	229	A		6/30/2012	-17.8
7/1/2012	209	A		7/1/2012	-18.5
7/2/2012	200	A		7/2/2012	-16.4
7/3/2012	191	A		7/3/2012	-16.0
7/4/2012	187	A		7/4/2012	-21.3
7/5/2012	211	A		7/5/2012	-8.0
7/6/2012	257	A		7/6/2012	-12.2
7/7/2012	375	A		7/7/2012	-22.1
7/8/2012	380	A		7/8/2012	18.0
7/9/2012	279	A		7/9/2012	3.6
7/10/2012	225	A		7/10/2012	-2.0
7/11/2012	189	A		7/11/2012	-3.6
7/12/2012	171	A		7/12/2012	0.7
7/13/2012	161	A		7/13/2012	7.6
7/14/2012	154	A		7/14/2012	8.9
7/15/2012	188	A		7/15/2012	4.7
7/16/2012	195	A		7/16/2012	14.6
7/17/2012	258	A		7/17/2012	5.1
7/18/2012	213	A		7/18/2012	21.5
7/19/2012	183	A		7/19/2012	12.4
7/20/2012	174	A		7/20/2012	13.6
7/21/2012	174	A		7/21/2012	5.8
7/22/2012	187	A		7/22/2012	12.3
7/23/2012	193	A		7/23/2012	14.3
7/24/2012	225	A		7/24/2012	19.1
7/25/2012	291	A		7/25/2012	34.7
7/26/2012	235	A		7/26/2012	31.3
7/27/2012	190	A		7/27/2012	16.1
7/28/2012	233	A		7/28/2012	13.6
7/29/2012	222	A		7/29/2012	19.7
7/30/2012	217	A		7/30/2012	17.0
7/31/2012	205	A		7/31/2012	21.9
8/1/2012	182	A		8/1/2012	18.2
8/2/2012	170	A		8/2/2012	18.9
8/3/2012	155	A		8/3/2012	20.5
8/4/2012	142	A		8/4/2012	22.4
8/5/2012	128	A		8/5/2012	21.7

8/6/2012	121	A		8/6/2012	19.3
8/7/2012	154	A		8/7/2012	0.3
8/8/2012	161	A		8/8/2012	29.9
8/9/2012	132	A		8/9/2012	23.9
8/10/2012	121	A		8/10/2012	20.4
8/11/2012	123	A		8/11/2012	16.0
8/12/2012	130	A		8/12/2012	21.6
8/13/2012	138	A		8/13/2012	1.7
8/14/2012	296	A		8/14/2012	21.0
8/15/2012	223	A		8/15/2012	40.1
8/16/2012	182	A		8/16/2012	34.1
8/17/2012	156	A		8/17/2012	29.6
8/18/2012	142	A		8/18/2012	23.7
8/19/2012	131	A		8/19/2012	23.2
8/20/2012	125	A		8/20/2012	20.6
8/21/2012	128	A		8/21/2012	24.0
8/22/2012	117	A		8/22/2012	19.8
8/23/2012	130	A		8/23/2012	16.2
8/24/2012	174	A		8/24/2012	1.7
8/25/2012	180	A		8/25/2012	25.5
8/26/2012	149	A		8/26/2012	20.3
8/27/2012	135	A		8/27/2012	19.5
8/28/2012	133	A		8/28/2012	15.1
8/29/2012	129	A		8/29/2012	15.0
8/30/2012	127	A		8/30/2012	20.4
8/31/2012	128	A		8/31/2012	12.6
9/1/2012	133	A		9/1/2012	24.8
9/2/2012	122	A		9/2/2012	20.7
9/3/2012	121	A		9/3/2012	21.1
9/4/2012	113	A		9/4/2012	22.2
9/5/2012	101	A		9/5/2012	18.1
9/6/2012	96	A		9/6/2012	16.6
9/7/2012	97.9	A		9/7/2012	13.8
9/8/2012	112	A		9/8/2012	20.7
9/9/2012	103	A		9/9/2012	20.9
9/10/2012	101	A		9/10/2012	21.0
9/11/2012	97.6	A		9/11/2012	17.6
9/12/2012	133	A		9/12/2012	20.9
9/13/2012	143	A		9/13/2012	26.5
9/14/2012	121	A		9/14/2012	22.9
9/15/2012	111	A		9/15/2012	21.3
9/16/2012	99.6	A		9/16/2012	18.4
9/17/2012	101	A		9/17/2012	19.4
9/18/2012	109	A		9/18/2012	22.0
9/19/2012	97.6	A		9/19/2012	19.1
9/20/2012	93.6	A		9/20/2012	17.6
9/21/2012	88.5	A		9/21/2012	16.0

9/22/2012	86.8	A		9/22/2012	15.7
9/23/2012	83.9	A		9/23/2012	14.7
9/24/2012	84.9	A		9/24/2012	14.8
9/25/2012	103	A		9/25/2012	20.7
9/26/2012	137	A		9/26/2012	27.4
9/27/2012	141	A		9/27/2012	29.2
9/28/2012	126	A		9/28/2012	24.2
9/29/2012	117	A		9/29/2012	22.6
9/30/2012	108	A		9/30/2012	19.4
10/1/2012	104	A		10/1/2012	19.1
10/2/2012	103	A		10/2/2012	19.6
10/3/2012	96.6	A		10/3/2012	16.5
10/4/2012	94.3	A		10/4/2012	16.8
10/5/2012	90.6	A		10/5/2012	15.9
10/6/2012	88.3	A		10/6/2012	14.6
10/7/2012	86.3	A		10/7/2012	16.6
10/8/2012	89.2	A		10/8/2012	16.9
10/9/2012	88.4	A		10/9/2012	17.3
10/10/2012	84.7	A		10/10/2012	14.2
10/11/2012	86.9	A		10/11/2012	16.8
10/12/2012	91.6	A		10/12/2012	14.8
10/13/2012	120	A		10/13/2012	11.3
10/14/2012	123	A		10/14/2012	16.5
10/15/2012	118	A		10/15/2012	13.3
10/16/2012	114	A		10/16/2012	15.2
10/17/2012	121	A		10/17/2012	12.0
10/18/2012	115	A		10/18/2012	20.1
10/19/2012	107	A		10/19/2012	17.4
10/20/2012	107	A		10/20/2012	18.1
10/21/2012	106	A		10/21/2012	19.0
10/22/2012	105	A		10/22/2012	14.1
10/23/2012	103	A		10/23/2012	12.5
10/24/2012	102	A		10/24/2012	12.9
10/25/2012	105	A		10/25/2012	16.5
10/26/2012	96.6	A		10/26/2012	18.4
10/27/2012	91.6	A		10/27/2012	13.1
10/28/2012	97.1	A		10/28/2012	12.6
10/29/2012	98.5	A		10/29/2012	11.4
10/30/2012	102	A		10/30/2012	10.0
10/31/2012	102	A		10/31/2012	12.4
11/1/2012	100	A		11/1/2012	10.3
11/2/2012	102	A		11/2/2012	10.9
11/3/2012	100	A		11/3/2012	15.1
11/4/2012	94.7	A		11/4/2012	14.2
11/5/2012	96.5	A		11/5/2012	11.9
11/6/2012	98.2	A		11/6/2012	16.1
11/7/2012	94.4	A		11/7/2012	16.6

11/8/2012	93.3	A		11/8/2012	17.0
11/9/2012	92.5	A		11/9/2012	19.6
11/10/2012	94.7	A		11/10/2012	20.0
11/11/2012	86.1	A		11/11/2012	29.4
11/12/2012	65	A:e		11/12/2012	14.2
11/13/2012	73.2	A:e		11/13/2012	11.4
11/14/2012	79.1	A:e		11/14/2012	14.5
11/15/2012	80.8	A:e		11/15/2012	14.1
11/16/2012	77.1	A:e		11/16/2012	13.3
11/17/2012	84.4	A		11/17/2012	15.7
11/18/2012	84.4	A		11/18/2012	16.4
11/19/2012	81.8	A		11/19/2012	15.3
11/20/2012	82.8	A		11/20/2012	14.7
11/21/2012	80.8	A		11/21/2012	15.1
11/22/2012	79.8	A		11/22/2012	19.2
11/23/2012	73.6	A:e		11/23/2012	14.6
11/24/2012	67.7	A:e		11/24/2012	12.7
11/25/2012	67	A:e		11/25/2012	12.5
11/26/2012	71.4	A:e		11/26/2012	14.8
11/27/2012	55.5	A:e		11/27/2012	11.0
11/28/2012	58	A:e		11/28/2012	11.1
11/29/2012	66.4	A:e		11/29/2012	13.6
11/30/2012	68.1	A:e		11/30/2012	14.5
12/1/2012	75.3	A		12/1/2012	17.2
12/2/2012	71	A		12/2/2012	16.2
12/3/2012	78.4	A		12/3/2012	18.4
12/4/2012	57.8	A:e		12/4/2012	11.7
12/5/2012	64.8	A:e		12/5/2012	14.0
12/6/2012	74.8	A		12/6/2012	16.0
12/7/2012	71.6	A		12/7/2012	19.2
12/8/2012	68.4	A		12/8/2012	19.1
12/9/2012	54.2	A:e		12/9/2012	12.2
12/10/2012	40.4	A:e		12/10/2012	8.8
12/11/2012	60.9	A:e		12/11/2012	13.8
12/12/2012	59.3	A:e		12/12/2012	13.0
12/13/2012	70	A:e		12/13/2012	16.3
12/14/2012	67.8	A:e		12/14/2012	15.9
12/15/2012	72.9	A:e		12/15/2012	17.3
12/16/2012	75.4	A:e		12/16/2012	18.5
12/17/2012	70	A:e		12/17/2012	16.8
12/18/2012	67.5	A:e		12/18/2012	15.4
12/19/2012	64.1	A:e		12/19/2012	15.0
12/20/2012	38.2	A:e		12/20/2012	8.5
12/21/2012	57.1	A:e		12/21/2012	12.5
12/22/2012	60.5	A:e		12/22/2012	13.2
12/23/2012	62.9	A:e		12/23/2012	13.9
12/24/2012	64.4	A:e		12/24/2012	14.3

12/25/2012	64.1	A:e		12/25/2012	14.3
12/26/2012	63	A:e		12/26/2012	14.3
12/27/2012	66.7	A:e		12/27/2012	16.0
12/28/2012	60.5	A:e		12/28/2012	13.7
12/29/2012	52.1	A:e		12/29/2012	11.2
12/30/2012	56.7	A:e		12/30/2012	12.8
12/31/2012	60.7	A:e		12/31/2012	14.4
1/1/2013	62.4	A:e		1/1/2013	15.3
1/2/2013	59.9	A:e		1/2/2013	14.6
1/3/2013	50.2	A:e		1/3/2013	11.4
1/4/2013	55.3	A:e		1/4/2013	13.5
1/5/2013	57.2	A:e		1/5/2013	14.5
1/6/2013	58.6	A:e		1/6/2013	15.1
1/7/2013	63.8	A:e		1/7/2013	17.0
1/8/2013	60.4	A:e		1/8/2013	15.7
1/9/2013	60.1	A:e		1/9/2013	15.8
1/10/2013	65.4	A:e		1/10/2013	17.7
1/11/2013	67.6	A:e		1/11/2013	18.3
1/12/2013	64	A:e		1/12/2013	17.5
1/13/2013	60.4	A:e		1/13/2013	16.3
1/14/2013	61.7	A:e		1/14/2013	17.1
1/15/2013	61.4	A:e		1/15/2013	16.8
1/16/2013	66.7	A:e		1/16/2013	19.0
1/17/2013	66	A:e		1/17/2013	18.3
1/18/2013	65.2	A:e		1/18/2013	18.0
1/19/2013	67.6	A:e		1/19/2013	18.8
1/20/2013	66.7	A:e		1/20/2013	18.5
1/21/2013	64.7	A:e		1/21/2013	17.7
1/22/2013	65.9	A:e		1/22/2013	18.4
1/23/2013	65.5	A:e		1/23/2013	18.0
1/24/2013	65.5	A:e		1/24/2013	18.1
1/25/2013	68.6	A:e		1/25/2013	18.7
1/26/2013	69.6	A:e		1/26/2013	18.9
1/27/2013	71.2	A:e		1/27/2013	19.2
1/28/2013	69	A:e		1/28/2013	18.7
1/29/2013	67.3	A:e		1/29/2013	18.3
1/30/2013	61.7	A:e		1/30/2013	16.8
1/31/2013	71.9	A:e		1/31/2013	19.4
2/1/2013	68.9	A:e		2/1/2013	18.7
2/2/2013	67.6	A:e		2/2/2013	18.4
2/3/2013	66.9	A:e		2/3/2013	18.0
2/4/2013	67.1	A:e		2/4/2013	18.1
2/5/2013	68.3	A:e		2/5/2013	18.6
2/6/2013	69.2	A:e		2/6/2013	18.7
2/7/2013	69.2	A:e		2/7/2013	18.8
2/8/2013	67.4	A:e		2/8/2013	19.5
2/9/2013	71.7	A:e		2/9/2013	20.8

2/10/2013	67.1	A:e		2/10/2013	19.3
2/11/2013	64.5	A:e		2/11/2013	17.9
2/12/2013	62.3	A:e		2/12/2013	17.8
2/13/2013	67.6	A:e		2/13/2013	19.8
2/14/2013	68.3	A:e		2/14/2013	20.0
2/15/2013	67.4	A:e		2/15/2013	19.8
2/16/2013	69.9	A:e		2/16/2013	20.6
2/17/2013	74.7	A:e		2/17/2013	21.9
2/18/2013	71.7	A:e		2/18/2013	21.1
2/19/2013	62.2	A:e		2/19/2013	18.3
2/20/2013	67.9	A:e		2/20/2013	19.5
2/21/2013	67.2	A:e		2/21/2013	19.4
2/22/2013	66.9	A:e		2/22/2013	18.7
2/23/2013	65.6	A:e		2/23/2013	17.6
2/24/2013	68.3	A:e		2/24/2013	18.3
2/25/2013	65.2	A:e		2/25/2013	17.7
2/26/2013	65.8	A:e		2/26/2013	17.6
2/27/2013	66.5	A:e		2/27/2013	18.0
2/28/2013	65.3	A:e		2/28/2013	18.3
3/1/2013	70.5	A:e		3/1/2013	19.8
3/2/2013	70.5	A:e		3/2/2013	19.7
3/3/2013	69.8	A:e		3/3/2013	19.0
3/4/2013	74.3	A:e		3/4/2013	21.3
3/5/2013	62.8	A:e		3/5/2013	17.9
3/6/2013	72.5	A:e		3/6/2013	20.5
3/7/2013	77.6	A:e		3/7/2013	22.3
3/8/2013	77.9	A:e		3/8/2013	21.9
3/9/2013	79.1	A:e		3/9/2013	22.7
3/10/2013	71.8	A:e		3/10/2013	20.1
3/11/2013	66.2	A:e		3/11/2013	18.4
3/12/2013	75	A:e		3/12/2013	21.6
3/13/2013	73.6	A:e		3/13/2013	20.4
3/14/2013	83.9	A		3/14/2013	26.3
3/15/2013	88.9	A		3/15/2013	26.7
3/16/2013	91.7	A		3/16/2013	25.1
3/17/2013	87.4	A		3/17/2013	25.1
3/18/2013	77.9	A		3/18/2013	22.0
3/19/2013	75.2	A		3/19/2013	20.3
3/20/2013	71.5	A		3/20/2013	21.0
3/21/2013	75.9	A		3/21/2013	18.4
3/22/2013	73.8	A		3/22/2013	21.2
3/23/2013	74.6	A		3/23/2013	21.2
3/24/2013	67	A:e		3/24/2013	19.2
3/25/2013	65.5	A:e		3/25/2013	18.5
3/26/2013	75	A:e		3/26/2013	20.7
3/27/2013	81.6	A		3/27/2013	22.0
3/28/2013	81.2	A		3/28/2013	22.8

3/29/2013	82.6	A		3/29/2013	20.9
3/30/2013	86.1	A		3/30/2013	19.3
3/31/2013	89.6	A		3/31/2013	18.7
4/1/2013	95.1	A		4/1/2013	18.5
4/2/2013	96.5	A		4/2/2013	18.2
4/3/2013	97.3	A		4/3/2013	20.9
4/4/2013	103	A		4/4/2013	16.9
4/5/2013	115	A		4/5/2013	14.1
4/6/2013	130	A		4/6/2013	15.5
4/7/2013	132	A		4/7/2013	18.8
4/8/2013	124	A		4/8/2013	22.3
4/9/2013	127	A		4/9/2013	19.6
4/10/2013	114	A		4/10/2013	26.0
4/11/2013	108	A		4/11/2013	22.8
4/12/2013	108	A		4/12/2013	23.1
4/13/2013	105	A		4/13/2013	23.6
4/14/2013	128	A		4/14/2013	25.7
4/15/2013	125	A		4/15/2013	30.1
4/16/2013	120	A		4/16/2013	28.5
4/17/2013	138	A		4/17/2013	33.0
4/18/2013	118	A		4/18/2013	31.3
4/19/2013	112	A		4/19/2013	28.0
4/20/2013	126	A		4/20/2013	32.2
4/21/2013	129	A		4/21/2013	33.4
4/22/2013	142	A		4/22/2013	30.5
4/23/2013	153	A		4/23/2013	36.9
4/24/2013	129	A		4/24/2013	33.2
4/25/2013	131	A		4/25/2013	29.9
4/26/2013	142	A		4/26/2013	22.5
4/27/2013	168	A		4/27/2013	17.2
4/28/2013	223	A		4/28/2013	12.3
4/29/2013	328	A		4/29/2013	10.1
4/30/2013	466	A		4/30/2013	57.1
5/1/2013	509	A		5/1/2013	85.8
5/2/2013	395	A		5/2/2013	60.8
5/3/2013	348	A		5/3/2013	49.4
5/4/2013	359	A		5/4/2013	45.2
5/5/2013	372	A		5/5/2013	47.9
5/6/2013	396	A		5/6/2013	50.1
5/7/2013	452	A		5/7/2013	65.1
5/8/2013	503	A		5/8/2013	86.4
5/9/2013	479	A		5/9/2013	88.6
5/10/2013	446	A		5/10/2013	76.7
5/11/2013	461	A		5/11/2013	73.1
5/12/2013	553	A		5/12/2013	87.8
5/13/2013	750	A		5/13/2013	76.0
5/14/2013	1170	A		5/14/2013	93.2

5/15/2013	1550	A		5/15/2013	156.0
5/16/2013	1660	A		5/16/2013	148.0
5/17/2013	1890	A		5/17/2013	126.0
5/18/2013	2060	A		5/18/2013	180.0
5/19/2013	1730	A		5/19/2013	228.0
5/20/2013	1330	A		5/20/2013	195.0
5/21/2013	1070	A		5/21/2013	158.0
5/22/2013	947	A		5/22/2013	137.4
5/23/2013	1110	A		5/23/2013	89.9
5/24/2013	1640	A		5/24/2013	111.0
5/25/2013	2010	A		5/25/2013	140.0
5/26/2013	2190	A		5/26/2013	133.0
5/27/2013	2410	A		5/27/2013	134.0
5/28/2013	2280	A		5/28/2013	188.0
5/29/2013	1940	A		5/29/2013	204.0
5/30/2013	1530	A		5/30/2013	206.0
5/31/2013	1230	A		5/31/2013	166.6
6/1/2013	1070	A		6/1/2013	126.1
6/2/2013	1220	A		6/2/2013	71.0
6/3/2013	1810	A		6/3/2013	89.0
6/4/2013	2160	A		6/4/2013	124.0
6/5/2013	2360	A		6/5/2013	58.0
6/6/2013	2660	A		6/6/2013	84.0
6/7/2013	2530	A		6/7/2013	117.0
6/8/2013	2490	A		6/8/2013	56.0
6/9/2013	2730	A		6/9/2013	41.0
6/10/2013	2980	A		6/10/2013	62.0
6/11/2013	2970	A		6/11/2013	52.0
6/12/2013	2840	A		6/12/2013	121.0
6/13/2013	2610	A		6/13/2013	122.0
6/14/2013	2460	A		6/14/2013	153.0
6/15/2013	2310	A		6/15/2013	197.0
6/16/2013	1950	A		6/16/2013	205.0
6/17/2013	1690	A		6/17/2013	179.0
6/18/2013	1580	A		6/18/2013	156.0
6/19/2013	1550	A		6/19/2013	157.0
6/20/2013	1470	A		6/20/2013	163.0
6/21/2013	1350	A		6/21/2013	155.0
6/22/2013	1260	A		6/22/2013	141.0
6/23/2013	1130	A		6/23/2013	122.0
6/24/2013	1030	A		6/24/2013	117.0
6/25/2013	918	A		6/25/2013	89.0
6/26/2013	906	A		6/26/2013	81.0
6/27/2013	891	A		6/27/2013	78.0
6/28/2013	842	A		6/28/2013	72.0
6/29/2013	789	A		6/29/2013	71.0
6/30/2013	750	A		6/30/2013	74.0

7/1/2013	697	A		7/1/2013	67.0
7/2/2013	641	A		7/2/2013	59.0
7/3/2013	586	A		7/3/2013	51.7
7/4/2013	560	A		7/4/2013	49.1
7/5/2013	516	A		7/5/2013	40.7
7/6/2013	534	A		7/6/2013	38.1
7/7/2013	500	A		7/7/2013	41.2
7/8/2013	526	A		7/8/2013	29.5
7/9/2013	491	A		7/9/2013	43.9
7/10/2013	421	A		7/10/2013	31.1
7/11/2013	378	A		7/11/2013	21.9
7/12/2013	372	A		7/12/2013	17.5
7/13/2013	389	A		7/13/2013	22.1
7/14/2013	395	A		7/14/2013	20.2
7/15/2013	396	A		7/15/2013	18.3
7/16/2013	384	A		7/16/2013	20.5
7/17/2013	341	A		7/17/2013	12.9
7/18/2013	376	A		7/18/2013	-4.9
7/19/2013	565	A		7/19/2013	43.0
7/20/2013	413	A		7/20/2013	37.1
7/21/2013	339	A		7/21/2013	21.3
7/22/2013	306	A		7/22/2013	20.6
7/23/2013	266	A		7/23/2013	27.5
7/24/2013	234	A		7/24/2013	21.7
7/25/2013	234	A		7/25/2013	17.1
7/26/2013	234	A		7/26/2013	16.0
7/27/2013	221	A		7/27/2013	23.5
7/28/2013	240	A		7/28/2013	9.8
7/29/2013	299	A		7/29/2013	13.3
7/30/2013	291	A		7/30/2013	30.7
7/31/2013	240	A		7/31/2013	22.3
8/1/2013	213	A		8/1/2013	21.0
8/2/2013	205	A		8/2/2013	23.3
8/3/2013	192	A		8/3/2013	18.5
8/4/2013	197	A		8/4/2013	23.0
8/5/2013	210	A		8/5/2013	16.6
8/6/2013	215	A		8/6/2013	16.3
8/7/2013	219	A		8/7/2013	25.8
8/8/2013	208	A		8/8/2013	23.2
8/9/2013	197	A		8/9/2013	24.5
8/10/2013	192	A		8/10/2013	23.0
8/11/2013	173	A		8/11/2013	23.1
8/12/2013	160	A		8/12/2013	21.0
8/13/2013	156	A		8/13/2013	18.1
8/14/2013	163	A		8/14/2013	20.5
8/15/2013	156	A		8/15/2013	25.7
8/16/2013	139	A		8/16/2013	22.4

8/17/2013	129	A		8/17/2013	19.7
8/18/2013	124	A		8/18/2013	19.2
8/19/2013	131	A		8/19/2013	19.4
8/20/2013	125	A		8/20/2013	23.5
8/21/2013	125	A		8/21/2013	24.9
8/22/2013	122	A		8/22/2013	19.8
8/23/2013	172	A		8/23/2013	6.7
8/24/2013	207	A		8/24/2013	32.6
8/25/2013	177	A		8/25/2013	30.9
8/26/2013	163	A		8/26/2013	26.1
8/27/2013	167	A		8/27/2013	23.1
8/28/2013	157	A		8/28/2013	28.1
8/29/2013	160	A		8/29/2013	18.2
8/30/2013	184	A		8/30/2013	20.3
8/31/2013	246	A		8/31/2013	3.5
9/1/2013	261	A		9/1/2013	29.5
9/2/2013	226	A		9/2/2013	34.2
9/3/2013	190	A		9/3/2013	33.7
9/4/2013	163	A		9/4/2013	26.6
9/5/2013	165	A		9/5/2013	22.5
9/6/2013	163	A		9/6/2013	28.3
9/7/2013	172	A		9/7/2013	27.3
9/8/2013	184	A		9/8/2013	30.5
9/9/2013	202	A		9/9/2013	43.4
9/10/2013	213	A		9/10/2013	38.3
9/11/2013	211	A		9/11/2013	49.9
9/12/2013	203	A		9/12/2013	41.2
9/13/2013	323	A		9/13/2013	3.3
9/14/2013	368	A		9/14/2013	45.2
9/15/2013	298	A		9/15/2013	28.6
9/16/2013	316	A		9/16/2013	27.5
9/17/2013	273	A		9/17/2013	31.8
9/18/2013	250	A		9/18/2013	27.3
9/19/2013	312	A		9/19/2013	10.9
9/20/2013	307	A		9/20/2013	34.9
9/21/2013	257	A		9/21/2013	31.8
9/22/2013	240	A		9/22/2013	23.0
9/23/2013	396	A		9/23/2013	14.6
9/24/2013	373	A		9/24/2013	34.9
9/25/2013	346	A		9/25/2013	22.9
9/26/2013	317	A		9/26/2013	26.8
9/27/2013	294	A		9/27/2013	20.8
9/28/2013	308	A		9/28/2013	27.0
9/29/2013	300	A		9/29/2013	25.2
9/30/2013	282	A		9/30/2013	26.9
10/1/2013	273	A		10/1/2013	25.5
10/2/2013	259	A		10/2/2013	29.0

10/3/2013	244	A		10/3/2013	28.7
10/4/2013	250	A		10/4/2013	29.8
10/5/2013	248	A		10/5/2013	30.6
10/6/2013	243	A		10/6/2013	32.0
10/7/2013	251	A		10/7/2013	27.4
10/8/2013	248	A		10/8/2013	30.0
10/9/2013	237	A		10/9/2013	32.7
10/10/2013	229	A		10/10/2013	35.7
10/11/2013	228	A		10/11/2013	36.7
10/12/2013	225	A		10/12/2013	37.2
10/13/2013	221	A		10/13/2013	37.2
10/14/2013	234	A		10/14/2013	34.6
10/15/2013	234	A		10/15/2013	37.5
10/16/2013	226	A		10/16/2013	37.7
10/17/2013	205	A		10/17/2013	38.7
10/18/2013	220	A		10/18/2013	30.7
10/19/2013	200	A		10/19/2013	37.0
10/20/2013	217	A		10/20/2013	35.5
10/21/2013	207	A		10/21/2013	35.7
10/22/2013	193	A		10/22/2013	34.6
10/23/2013	194	A		10/23/2013	34.5
10/24/2013	189	A		10/24/2013	31.1
10/25/2013	192	A		10/25/2013	31.7
10/26/2013	191	A		10/26/2013	33.4
10/27/2013	188	A		10/27/2013	31.1
10/28/2013	191	A		10/28/2013	32.2
10/29/2013	186	A		10/29/2013	34.0
10/30/2013	190	A		10/30/2013	37.5
10/31/2013	180	A		10/31/2013	38.6
11/1/2013	177	A		11/1/2013	35.9
11/2/2013	160	A		11/2/2013	33.7
11/3/2013	173	A		11/3/2013	29.5
11/4/2013	180	A		11/4/2013	36.5
11/5/2013	188	A		11/5/2013	25.7
11/6/2013	165	A		11/6/2013	29.5
11/7/2013	182	A		11/7/2013	44.0
11/8/2013	173	A		11/8/2013	35.8
11/9/2013	162	A		11/9/2013	35.2
11/10/2013	157	A		11/10/2013	35.7
11/11/2013	150	A		11/11/2013	33.2
11/12/2013	149	A		11/12/2013	31.5
11/13/2013	147	A		11/13/2013	34.0
11/14/2013	157	A		11/14/2013	34.8
11/15/2013	141	A		11/15/2013	33.9
11/16/2013	149	A		11/16/2013	30.5
11/17/2013	146	A		11/17/2013	31.9
11/18/2013	137	A		11/18/2013	30.0

11/19/2013	134	A		11/19/2013	26.5
11/20/2013	156	A		11/20/2013	34.1
11/21/2013	153	A		11/21/2013	31.1
11/22/2013	146	A		11/22/2013	34.1
11/23/2013	143	A		11/23/2013	28.9
11/24/2013	143	A		11/24/2013	29.8
11/25/2013	144	A		11/25/2013	32.7
11/26/2013	133	A		11/26/2013	31.6
11/27/2013	122	A		11/27/2013	36.7
11/28/2013	128	A		11/28/2013	31.9
11/29/2013	128	A		11/29/2013	35.8
11/30/2013	120	A		11/30/2013	36.2
12/1/2013	118	A		12/1/2013	30.7
12/2/2013	133	A		12/2/2013	30.1
12/3/2013	132	A		12/3/2013	29.0
12/4/2013	121	A:e		12/4/2013	24.8
12/5/2013	88.1	A:e		12/5/2013	33.3
12/6/2013	89	A:e		12/6/2013	23.5
12/7/2013	99.6	A:e		12/7/2013	18.3
12/8/2013	107	A:e		12/8/2013	16.0
12/9/2013	100	A:e		12/9/2013	16.8
12/10/2013	95.6	A:e		12/10/2013	18.2
12/11/2013	103	A:e		12/11/2013	15.8
12/12/2013	99.2	A:e		12/12/2013	17.0
12/13/2013	98.9	A:e		12/13/2013	13.8
12/14/2013	104	A:e		12/14/2013	12.1
12/15/2013	107	A:e		12/15/2013	11.9
12/16/2013	109	A:e		12/16/2013	12.3
12/17/2013	109	A:e		12/17/2013	12.2
12/18/2013	112	A:e		12/18/2013	13.1
12/19/2013	110	A:e		12/19/2013	11.8
12/20/2013	102	A:e		12/20/2013	13.0
12/21/2013	97.4	A:e		12/21/2013	13.0
12/22/2013	96	A:e		12/22/2013	13.0
12/23/2013	97.7	A:e		12/23/2013	13.1
12/24/2013	97.7	A:e		12/24/2013	13.1
12/25/2013	92	A:e		12/25/2013	14.3
12/26/2013	89.6	A:e		12/26/2013	13.9
12/27/2013	95.9	A:e		12/27/2013	13.6
12/28/2013	98.7	A:e		12/28/2013	14.2
12/29/2013	101	A:e		12/29/2013	13.8
12/30/2013	95.1	A:e		12/30/2013	13.6
12/31/2013	94.2	A:e		12/31/2013	13.4
1/1/2014	99.9	A:e		1/1/2014	13.7
1/2/2014	92.5	A:e		1/2/2014	15.2
1/3/2014	96.9	A:e		1/3/2014	13.6
1/4/2014	99.5	A:e		1/4/2014	12.8

1/5/2014	89.8	A:e		1/5/2014	16.0
1/6/2014	84.7	A:e		1/6/2014	16.0
1/7/2014	94.2	A:e		1/7/2014	14.7
1/8/2014	103	A:e		1/8/2014	12.9
1/9/2014	98.3	A:e		1/9/2014	13.5
1/10/2014	93.8	A:e		1/10/2014	14.0
1/11/2014	94.6	A:e		1/11/2014	13.3
1/12/2014	95.7	A:e		1/12/2014	12.9
1/13/2014	93.8	A:e		1/13/2014	13.5
1/14/2014	97.4	A:e		1/14/2014	13.2
1/15/2014	94.5	A:e		1/15/2014	13.4
1/16/2014	92.4	A:e		1/16/2014	13.3
1/17/2014	91.7	A:e		1/17/2014	13.3
1/18/2014	91.5	A:e		1/18/2014	13.7
1/19/2014	91.9	A:e		1/19/2014	13.6
1/20/2014	91.7	A:e		1/20/2014	13.4
1/21/2014	86.9	A:e		1/21/2014	14.4
1/22/2014	84.6	A:e		1/22/2014	14.8
1/23/2014	91	A:e		1/23/2014	13.0
1/24/2014	83.8	A:e		1/24/2014	17.0
1/25/2014	90.4	A:e		1/25/2014	14.2
1/26/2014	90.4	A:e		1/26/2014	14.4
1/27/2014	91	A:e		1/27/2014	14.3
1/28/2014	86	A:e		1/28/2014	15.8
1/29/2014	86.6	A:e		1/29/2014	15.3
1/30/2014	91.6	A:e		1/30/2014	14.4
1/31/2014	90.9	A:e		1/31/2014	13.6
2/1/2014	90.8	A:e		2/1/2014	13.6
2/2/2014	89.6	A:e		2/2/2014	14.7
2/3/2014	93.5	A:e		2/3/2014	13.7
2/4/2014	97.1	A:e		2/4/2014	14.0
2/5/2014	91.9	A:e		2/5/2014	15.1
2/6/2014	93	A:e		2/6/2014	15.0
2/7/2014	93.7	A:e		2/7/2014	15.2
2/8/2014	93.9	A:e		2/8/2014	15.1
2/9/2014	95.5	A:e		2/9/2014	14.1
2/10/2014	97.1	A:e		2/10/2014	13.3
2/11/2014	93	A:e		2/11/2014	14.0
2/12/2014	95.4	A:e		2/12/2014	13.0
2/13/2014	95.6	A:e		2/13/2014	12.9
2/14/2014	96.4	A:e		2/14/2014	13.0
2/15/2014	95	A:e		2/15/2014	13.0
2/16/2014	95.7	A:e		2/16/2014	12.7
2/17/2014	93.3	A:e		2/17/2014	13.3
2/18/2014	92.7	A:e		2/18/2014	11.7
2/19/2014	80.7	A		2/19/2014	-1.5
2/20/2014	84.2	A		2/20/2014	10.8

2/21/2014	87.2	A		2/21/2014	7.2
2/22/2014	92.1	A		2/22/2014	11.1
2/23/2014	86.9	A		2/23/2014	7.7
2/24/2014	85.6	A		2/24/2014	7.0
2/25/2014	89.8	A		2/25/2014	6.8
2/26/2014	93.1	A		2/26/2014	7.5
2/27/2014	94.6	A		2/27/2014	10.8
2/28/2014	96.7	A		2/28/2014	12.2
3/1/2014	104	A		3/1/2014	15.4
3/2/2014	107	A		3/2/2014	19.4
3/3/2014	103	A		3/3/2014	19.4
3/4/2014	99.3	A		3/4/2014	17.2
3/5/2014	104	A		3/5/2014	18.9
3/6/2014	99.6	A		3/6/2014	17.2
3/7/2014	105	A		3/7/2014	16.9
3/8/2014	101	A		3/8/2014	17.0
3/9/2014	98.7	A		3/9/2014	17.1
3/10/2014	105	A		3/10/2014	16.7
3/11/2014	113	A		3/11/2014	19.0
3/12/2014	100	A		3/12/2014	16.8
3/13/2014	100	A		3/13/2014	14.3
3/14/2014	112	A		3/14/2014	22.1
3/15/2014	111	A		3/15/2014	19.9
3/16/2014	106	A		3/16/2014	16.7
3/17/2014	112	A		3/17/2014	21.7
3/18/2014	112	A		3/18/2014	20.4
3/19/2014	108	A		3/19/2014	19.7
3/20/2014	109	A		3/20/2014	21.9
3/21/2014	114	A		3/21/2014	21.1
3/22/2014	124	A		3/22/2014	19.7
3/23/2014	118	A		3/23/2014	16.0
3/24/2014	134	A		3/24/2014	28.9
3/25/2014	126	A		3/25/2014	23.0
3/26/2014	138	A		3/26/2014	23.9
3/27/2014	146	A		3/27/2014	29.0
3/28/2014	141	A		3/28/2014	29.4
3/29/2014	129	A		3/29/2014	26.2
3/30/2014	140	A		3/30/2014	29.5
3/31/2014	140	A		3/31/2014	30.9
4/1/2014	140	A		4/1/2014	30.7
4/2/2014	140	A		4/2/2014	31.7
4/3/2014	140	A		4/3/2014	31.7
4/4/2014	132	A		4/4/2014	30.9
4/5/2014	139	A		4/5/2014	31.7
4/6/2014	147	A		4/6/2014	39.4
4/7/2014	148	A		4/7/2014	36.9
4/8/2014	153	A		4/8/2014	37.1

4/9/2014	188	A		4/9/2014	29.3
4/10/2014	272	A		4/10/2014	33.6
4/11/2014	367	A		4/11/2014	35.2
4/12/2014	500	A		4/12/2014	80.7
4/13/2014	543	A		4/13/2014	112.5
4/14/2014	416	A		4/14/2014	83.2
4/15/2014	354	A		4/15/2014	63.1
4/16/2014	350	A		4/16/2014	61.4
4/17/2014	346	A		4/17/2014	51.8
4/18/2014	421	A		4/18/2014	61.1
4/19/2014	573	A		4/19/2014	109.4
4/20/2014	702	A		4/20/2014	137.1
4/21/2014	842	A		4/21/2014	155.2
4/22/2014	1060	A		4/22/2014	205.7
4/23/2014	1120	A		4/23/2014	224.5
4/24/2014	1020	A		4/24/2014	212.8
4/25/2014	1050	A		4/25/2014	209.1
4/26/2014	1170	A		4/26/2014	206.4
4/27/2014	1160	A		4/27/2014	221.3
4/28/2014	930	A		4/28/2014	214.2
4/29/2014	767	A		4/29/2014	197.2
4/30/2014	663	A		4/30/2014	174.9
5/1/2014	582	A		5/1/2014	152.0
5/2/2014	554	A		5/2/2014	141.9
5/3/2014	614	A		5/3/2014	146.5
5/4/2014	869	A		5/4/2014	162.6
5/5/2014	1230	A		5/5/2014	186.7
5/6/2014	1450	A		5/6/2014	222.2
5/7/2014	1560	A		5/7/2014	235.1
5/8/2014	1510	A		5/8/2014	253.0
5/9/2014	1240	A		5/9/2014	219.3
5/10/2014	1070	A		5/10/2014	209.5
5/11/2014	1060	A		5/11/2014	232.2
5/12/2014	911	A		5/12/2014	197.4
5/13/2014	788	A		5/13/2014	164.0
5/14/2014	734	A		5/14/2014	152.0
5/15/2014	697	A		5/15/2014	142.6
5/16/2014	689	A		5/16/2014	137.5
5/17/2014	707	A		5/17/2014	127.6
5/18/2014	872	A		5/18/2014	125.7
5/19/2014	1170	A		5/19/2014	130.7
5/20/2014	1600	A		5/20/2014	183.0
5/21/2014	1960	A		5/21/2014	242.0
5/22/2014	2130	A		5/22/2014	245.0
5/23/2014	2330	A		5/23/2014	217.0
5/24/2014	2730	A		5/24/2014	203.0
5/25/2014	2790	A		5/25/2014	257.0

5/26/2014	2460	A		5/26/2014	279.0
5/27/2014	2760	A		5/27/2014	174.0
5/28/2014	3330	A		5/28/2014	4.0
5/29/2014	4020	A		5/29/2014	-62.0
5/30/2014	4680	A		5/30/2014	-30.0
5/31/2014	4500	A		5/31/2014	31.0
6/1/2014	4570	A		6/1/2014	81.0
6/2/2014	4490	A		6/2/2014	183.0
6/3/2014	4330	A		6/3/2014	104.0
6/4/2014	4410	A		6/4/2014	79.0
6/5/2014	4260	A		6/5/2014	158.0
6/6/2014	3830	A		6/6/2014	89.0
6/7/2014	3580	A		6/7/2014	77.0
6/8/2014	3560	A		6/8/2014	200.0
6/9/2014	2900	A		6/9/2014	253.0
6/10/2014	2620	A		6/10/2014	231.0
6/11/2014	2660	A		6/11/2014	171.0
6/12/2014	2830	A		6/12/2014	124.0
6/13/2014	2990	A		6/13/2014	95.0
6/14/2014	3210	A		6/14/2014	169.0
6/15/2014	2630	A		6/15/2014	235.0
6/16/2014	2310	A		6/16/2014	208.0
6/17/2014	2360	A		6/17/2014	166.0
6/18/2014	2430	A		6/18/2014	168.0
6/19/2014	2190	A		6/19/2014	183.0
6/20/2014	2210	A		6/20/2014	155.0
6/21/2014	2250	A		6/21/2014	168.0
6/22/2014	1990	A		6/22/2014	162.0
6/23/2014	1960	A		6/23/2014	178.0
6/24/2014	1860	A		6/24/2014	164.0
6/25/2014	1860	A		6/25/2014	145.0
6/26/2014	1890	A		6/26/2014	138.0
6/27/2014	1850	A		6/27/2014	154.0
6/28/2014	1670	A		6/28/2014	129.0
6/29/2014	1650	A		6/29/2014	120.0
6/30/2014	1730	A		6/30/2014	134.0
7/1/2014	1660	A		7/1/2014	150.0
7/2/2014	1450	A		7/2/2014	134.0
7/3/2014	1350	A		7/3/2014	121.0
7/4/2014	1270	A		7/4/2014	109.0
7/5/2014	1200	A		7/5/2014	119.0
7/6/2014	1100	A		7/6/2014	97.0
7/7/2014	1040	A		7/7/2014	103.0
7/8/2014	1010	A		7/8/2014	105.0
7/9/2014	943	A		7/9/2014	101.0
7/10/2014	881	A		7/10/2014	81.0
7/11/2014	1010	A		7/11/2014	100.0

7/12/2014	1060	A		7/12/2014	153.0
7/13/2014	904	A		7/13/2014	143.0
7/14/2014	797	A		7/14/2014	132.0
7/15/2014	741	A		7/15/2014	111.0
7/16/2014	780	A		7/16/2014	127.0
7/17/2014	749	A		7/17/2014	129.0
7/18/2014	639	A		7/18/2014	102.2
7/19/2014	566	A		7/19/2014	85.6
7/20/2014	522	A		7/20/2014	75.2
7/21/2014	501	A		7/21/2014	68.7
7/22/2014	465	A		7/22/2014	58.6
7/23/2014	441	A		7/23/2014	53.0
7/24/2014	452	A		7/24/2014	54.6
7/25/2014	433	A		7/25/2014	52.5
7/26/2014	418	A		7/26/2014	45.5
7/27/2014	440	A		7/27/2014	62.6
7/28/2014	383	A		7/28/2014	44.9
7/29/2014	433	A		7/29/2014	46.6
7/30/2014	458	A		7/30/2014	54.4
7/31/2014	535	A		7/31/2014	76.7
8/1/2014	473	A		8/1/2014	67.9
8/2/2014	444	A		8/2/2014	62.2
8/3/2014	380	A		8/3/2014	55.7
8/4/2014	351	A		8/4/2014	40.3
8/5/2014	389	A		8/5/2014	42.1
8/6/2014	391	A		8/6/2014	42.5
8/7/2014	366	A		8/7/2014	50.2
8/8/2014	325	A		8/8/2014	40.2
8/9/2014	298	A		8/9/2014	36.8
8/10/2014	286	A		8/10/2014	36.0
8/11/2014	276	A		8/11/2014	33.3
8/12/2014	259	A		8/12/2014	33.4
8/13/2014	245	A		8/13/2014	33.6
8/14/2014	254	A		8/14/2014	29.1
8/15/2014	266	A		8/15/2014	34.2
8/16/2014	254	A		8/16/2014	34.9
8/17/2014	226	A		8/17/2014	28.8
8/18/2014	210	A		8/18/2014	26.7
8/19/2014	203	A		8/19/2014	27.5
8/20/2014	217	A		8/20/2014	28.0
8/21/2014	229	A		8/21/2014	37.6
8/22/2014	214	A		8/22/2014	32.9
8/23/2014	224	A		8/23/2014	31.5
8/24/2014	242	A		8/24/2014	33.3
8/25/2014	220	A		8/25/2014	35.9
8/26/2014	209	A		8/26/2014	35.7
8/27/2014	247	A		8/27/2014	14.3

8/28/2014	329	A		8/28/2014	29.7
8/29/2014	362	A		8/29/2014	48.5
8/30/2014	301	A		8/30/2014	45.7
8/31/2014	267	A		8/31/2014	37.0
9/1/2014	252	A		9/1/2014	40.1
9/2/2014	222	A		9/2/2014	37.3
9/3/2014	200	A		9/3/2014	32.0
9/4/2014	187	A		9/4/2014	29.0
9/5/2014	191	A		9/5/2014	21.9
9/6/2014	193	A		9/6/2014	27.9
9/7/2014	177	A		9/7/2014	23.9
9/8/2014	176	A		9/8/2014	24.1
9/9/2014	237	A		9/9/2014	-8.8
9/10/2014	636	A		9/10/2014	54.0
9/11/2014	460	A		9/11/2014	74.5
9/12/2014	330	A		9/12/2014	44.1
9/13/2014	277	A		9/13/2014	38.8
9/14/2014	248	A		9/14/2014	35.4
9/15/2014	229	A		9/15/2014	31.5
9/16/2014	212	A		9/16/2014	32.0
9/17/2014	194	A		9/17/2014	29.2
9/18/2014	182	A		9/18/2014	27.4
9/19/2014	174	A		9/19/2014	26.0
9/20/2014	168	A		9/20/2014	27.1
9/21/2014	164	A		9/21/2014	21.9
9/22/2014	211	A		9/22/2014	17.3
9/23/2014	245	A		9/23/2014	33.7
9/24/2014	211	A		9/24/2014	34.7
9/25/2014	191	A		9/25/2014	29.7
9/26/2014	181	A		9/26/2014	29.3
9/27/2014	174	A		9/27/2014	24.2
9/28/2014	180	A		9/28/2014	27.0
9/29/2014	208	A		9/29/2014	21.5
9/30/2014	264	A		9/30/2014	34.5
10/1/2014	275	A		10/1/2014	36.9
10/2/2014	275	A		10/2/2014	39.2
10/3/2014	254	A		10/3/2014	35.1
10/4/2014	239	A		10/4/2014	32.2
10/5/2014	240	A		10/5/2014	29.3
10/6/2014	240	A		10/6/2014	28.1
10/7/2014	238	A		10/7/2014	27.0
10/8/2014	233	A		10/8/2014	27.9
10/9/2014	224	A		10/9/2014	26.3
10/10/2014	234	A		10/10/2014	24.9
10/11/2014	234	A		10/11/2014	24.9
10/12/2014	240	A		10/12/2014	21.8
10/13/2014	255	A		10/13/2014	29.9

10/14/2014	237	A		10/14/2014	29.6
10/15/2014	247	A		10/15/2014	22.7
10/16/2014	251	A		10/16/2014	27.2
10/17/2014	250	A		10/17/2014	28.2
10/18/2014	242	A		10/18/2014	31.8
10/19/2014	233	A		10/19/2014	28.1
10/20/2014	227	A		10/20/2014	26.4
10/21/2014	221	A		10/21/2014	25.9
10/22/2014	241	A		10/22/2014	19.3
10/23/2014	250	A		10/23/2014	24.5
10/24/2014	234	A		10/24/2014	26.6
10/25/2014	221	A		10/25/2014	24.1
10/26/2014	216	A		10/26/2014	25.4
10/27/2014	207	A		10/27/2014	24.9
10/28/2014	193	A		10/28/2014	30.0
10/29/2014	184	A		10/29/2014	24.9
10/30/2014	185	A		10/30/2014	22.7
10/31/2014	178	A		10/31/2014	22.4
11/1/2014	177	A		11/1/2014	20.9
11/2/2014	178	A		11/2/2014	23.9
11/3/2014	182	A		11/3/2014	27.2
11/4/2014	168	A		11/4/2014	27.4
11/5/2014	154	A		11/5/2014	19.8
11/6/2014	163	A		11/6/2014	22.0
11/7/2014	163	A		11/7/2014	19.1
11/8/2014	164	A		11/8/2014	24.6
11/9/2014	151	A		11/9/2014	21.0
11/10/2014	156	A		11/10/2014	18.7
11/11/2014	143	A		11/11/2014	28.2
11/12/2014	147	A		11/12/2014	25.9
11/13/2014	133	A		11/13/2014	28.7
11/14/2014	155	A		11/14/2014	20.7
11/15/2014	167	A		11/15/2014	23.3
11/16/2014	143	A		11/16/2014	33.3
11/17/2014	140	A:e		11/17/2014	33.2
11/18/2014	135	A:e		11/18/2014	31.2
11/19/2014	149	A:e		11/19/2014	27.1
11/20/2014	151	A:e		11/20/2014	27.1
11/21/2014	156	A:e		11/21/2014	28.3
11/22/2014	146	A		11/22/2014	29.4
11/23/2014	149	A		11/23/2014	27.8
11/24/2014	144	A:e		11/24/2014	30.0
11/25/2014	147	A:e		11/25/2014	28.9
11/26/2014	149	A		11/26/2014	26.4
11/27/2014	149	A		11/27/2014	25.0
11/28/2014	146	A		11/28/2014	23.4
11/29/2014	141	A		11/29/2014	25.5

11/30/2014	137	A		11/30/2014	22.6
12/1/2014	134	A		12/1/2014	22.9
12/2/2014	127	A		12/2/2014	22.2
12/3/2014	129	A		12/3/2014	22.8
12/4/2014	133	A		12/4/2014	25.0
12/5/2014	132	A		12/5/2014	22.9
12/6/2014	134	A		12/6/2014	25.5
12/7/2014	135	A		12/7/2014	25.5
12/8/2014	121	A		12/8/2014	27.0
12/9/2014	121	A		12/9/2014	33.6
12/10/2014	126	A		12/10/2014	33.7
12/11/2014	128	A		12/11/2014	33.8
12/12/2014	126	A		12/12/2014	27.4
12/13/2014	136	A		12/13/2014	23.4
12/14/2014	137	A		12/14/2014	29.1
12/15/2014	126	A		12/15/2014	28.9
12/16/2014	109	A		12/16/2014	32.4
12/17/2014	132	A:e		12/17/2014	22.1
12/18/2014	130	A:e		12/18/2014	22.9
12/19/2014	126	A:e		12/19/2014	25.4
12/20/2014	116	A:e		12/20/2014	27.7
12/21/2014	126	A:e		12/21/2014	23.1
12/22/2014	119	A:e		12/22/2014	25.5
12/23/2014	118	A:e		12/23/2014	24.6
12/24/2014	104	A:e		12/24/2014	23.4
12/25/2014	131	A:e		12/25/2014	23.5
12/26/2014	127	A:e		12/26/2014	30.2
12/27/2014	117	A:e		12/27/2014	23.8
12/28/2014	98.8	A:e		12/28/2014	24.5
12/29/2014	122	A:e		12/29/2014	29.7
12/30/2014	118	A:e		12/30/2014	26.0
12/31/2014	102	A:e		12/31/2014	22.6
1/1/2015	104	A:e		1/1/2015	25.2
1/2/2015	109	A:e		1/2/2015	24.0
1/3/2015	110	A:e		1/3/2015	24.4
1/4/2015	116	A:e		1/4/2015	27.2
1/5/2015	124	A:e		1/5/2015	24.5
1/6/2015	132	A:e		1/6/2015	27.9
1/7/2015	127	A:e		1/7/2015	28.1
1/8/2015	127	A:e		1/8/2015	29.1
1/9/2015	122	A:e		1/9/2015	28.5
1/10/2015	122	A:e		1/10/2015	27.7
1/11/2015	127	A:e		1/11/2015	28.1
1/12/2015	122	A:e		1/12/2015	26.1
1/13/2015	117	A:e		1/13/2015	26.1
1/14/2015	110	A:e		1/14/2015	26.9
1/15/2015	93.9	A:e		1/15/2015	23.2

1/16/2015	109	A:e		1/16/2015	22.7
1/17/2015	122	A:e		1/17/2015	24.1
1/18/2015	112	A:e		1/18/2015	25.6
1/19/2015	119	A:e		1/19/2015	25.3
1/20/2015	118	A:e		1/20/2015	26.2
1/21/2015	110	A:e		1/21/2015	23.4
1/22/2015	97.7	A:e		1/22/2015	27.1
1/23/2015	105	A:e		1/23/2015	24.7
1/24/2015	114	A:e		1/24/2015	21.3
1/25/2015	126	A:e		1/25/2015	21.9
1/26/2015	116	A:e		1/26/2015	23.1
1/27/2015	116	A:e		1/27/2015	22.4
1/28/2015	114	A		1/28/2015	20.0
1/29/2015	113	A		1/29/2015	18.9
1/30/2015	113	A		1/30/2015	19.2
1/31/2015	116	A		1/31/2015	19.5
2/1/2015	112	A		2/1/2015	21.2
2/2/2015	109	A		2/2/2015	16.6
2/3/2015	114	A		2/3/2015	18.7
2/4/2015	116	A		2/4/2015	18.7
2/5/2015	116	A		2/5/2015	18.5
2/6/2015	115	A		2/6/2015	18.7
2/7/2015	115	A		2/7/2015	16.3
2/8/2015	121	A		2/8/2015	19.4
2/9/2015	116	A		2/9/2015	17.5
2/10/2015	123	A		2/10/2015	18.7
2/11/2015	118	A		2/11/2015	18.2
2/12/2015	111	A		2/12/2015	16.8
2/13/2015	113	A		2/13/2015	14.2
2/14/2015	116	A		2/14/2015	16.2
2/15/2015	121	A		2/15/2015	18.0
2/16/2015	117	A		2/16/2015	16.8
2/17/2015	111	A		2/17/2015	21.5
2/18/2015	111	A		2/18/2015	14.4
2/19/2015	117	A		2/19/2015	20.9
2/20/2015	119	A		2/20/2015	21.3
2/21/2015	117	A		2/21/2015	21.0
2/22/2015	112	A		2/22/2015	22.2
2/23/2015	106	A		2/23/2015	19.0
2/24/2015	111	A		2/24/2015	17.0
2/25/2015	117	A		2/25/2015	20.5
2/26/2015	112	A		2/26/2015	19.3
2/27/2015	115	A		2/27/2015	20.5
2/28/2015	110	A		2/28/2015	18.1
3/1/2015	118	A		3/1/2015	18.1
3/2/2015	120	A		3/2/2015	17.4
3/3/2015	122	A		3/3/2015	23.2

3/4/2015	112	A		3/4/2015	19.7
3/5/2015	98.6	A		3/5/2015	13.9
3/6/2015	116	A		3/6/2015	17.9
3/7/2015	120	A		3/7/2015	22.0
3/8/2015	120	A		3/8/2015	18.3
3/9/2015	121	A		3/9/2015	19.3
3/10/2015	120	A		3/10/2015	18.9
3/11/2015	121	A		3/11/2015	18.2
3/12/2015	125	A		3/12/2015	20.3
3/13/2015	125	A		3/13/2015	20.1
3/14/2015	126	A		3/14/2015	20.2
3/15/2015	134	A		3/15/2015	18.2
3/16/2015	151	A		3/16/2015	11.5
3/17/2015	179	A		3/17/2015	1.2
3/18/2015	229	A		3/18/2015	4.0
3/19/2015	250	A		3/19/2015	15.3
3/20/2015	223	A		3/20/2015	12.7
3/21/2015	228	A		3/21/2015	9.8
3/22/2015	237	A		3/22/2015	9.8
3/23/2015	252	A		3/23/2015	11.1
3/24/2015	256	A		3/24/2015	11.2
3/25/2015	247	A		3/25/2015	17.6
3/26/2015	210	A		3/26/2015	7.0
3/27/2015	226	A		3/27/2015	15.8
3/28/2015	240	A		3/28/2015	3.7
3/29/2015	294	A		3/29/2015	-3.9
3/30/2015	334	A		3/30/2015	-0.8
3/31/2015	367	A		3/31/2015	0.6
4/1/2015	414	A		4/1/2015	13.2
4/2/2015	398	A		4/2/2015	25.4
4/3/2015	349	A		4/3/2015	21.0
4/4/2015	308	A		4/4/2015	13.2
4/5/2015	311	A		4/5/2015	18.3
4/6/2015	316	A		4/6/2015	8.1
4/7/2015	342	A		4/7/2015	7.6
4/8/2015	365	A		4/8/2015	11.6
4/9/2015	362	A		4/9/2015	16.2
4/10/2015	342	A		4/10/2015	13.9
4/11/2015	334	A		4/11/2015	13.4
4/12/2015	343	A		4/12/2015	14.3
4/13/2015	334	A		4/13/2015	10.5
4/14/2015	371	A		4/14/2015	3.3
4/15/2015	444	A		4/15/2015	17.8
4/16/2015	440	A		4/16/2015	28.2
4/17/2015	422	A		4/17/2015	31.2
4/18/2015	382	A		4/18/2015	24.8
4/19/2015	360	A		4/19/2015	29.8

4/20/2015	333	A		4/20/2015	20.0
4/21/2015	318	A		4/21/2015	19.6
4/22/2015	320	A		4/22/2015	14.8
4/23/2015	329	A		4/23/2015	11.9
4/24/2015	341	A		4/24/2015	10.8
4/25/2015	334	A		4/25/2015	16.4
4/26/2015	351	A		4/26/2015	19.5
4/27/2015	346	A		4/27/2015	25.4
4/28/2015	341	A		4/28/2015	16.4
4/29/2015	385	A		4/29/2015	6.8
4/30/2015	509	A		4/30/2015	17.4
5/1/2015	638	A		5/1/2015	37.1
5/2/2015	717	A		5/2/2015	59.7
5/3/2015	752	A		5/3/2015	69.6
5/4/2015	802	A		5/4/2015	88.1
5/5/2015	849	A		5/5/2015	102.2
5/6/2015	1190	A		5/6/2015	144.0
5/7/2015	1180	A		5/7/2015	178.0
5/8/2015	1060	A		5/8/2015	153.3
5/9/2015	1060	A		5/9/2015	166.1
5/10/2015	1030	A		5/10/2015	180.0
5/11/2015	926	A		5/11/2015	156.4
5/12/2015	903	A		5/12/2015	153.6
5/13/2015	911	A		5/13/2015	147.7
5/14/2015	914	A		5/14/2015	147.7
5/15/2015	931	A		5/15/2015	147.0
5/16/2015	883	A		5/16/2015	146.7
5/17/2015	851	A		5/17/2015	138.7
5/18/2015	814	A		5/18/2015	133.0
5/19/2015	925	A		5/19/2015	133.0
5/20/2015	938	A		5/20/2015	165.0
5/21/2015	886	A		5/21/2015	147.2
5/22/2015	963	A		5/22/2015	179.7
5/23/2015	1020	A		5/23/2015	180.9
5/24/2015	1010	A		5/24/2015	178.9
5/25/2015	984	A		5/25/2015	173.7
5/26/2015	989	A		5/26/2015	170.0
5/27/2015	1040	A		5/27/2015	161.4
5/28/2015	1190	A		5/28/2015	161.9
5/29/2015	1310	A		5/29/2015	187.3
5/30/2015	1280	A		5/30/2015	168.6
5/31/2015	1540	A		5/31/2015	141.0
6/1/2015	2040	A		6/1/2015	151.0
6/2/2015	2460	A		6/2/2015	153.0
6/3/2015	2850	A		6/3/2015	158.0
6/4/2015	2900	A		6/4/2015	214.0
6/5/2015	2990	A		6/5/2015	261.0

6/6/2015	3000	A		6/6/2015	255.0
6/7/2015	2870	A		6/7/2015	317.0
6/8/2015	2810	A		6/8/2015	331.0
6/9/2015	3000	A		6/9/2015	334.0
6/10/2015	3220	A		6/10/2015	341.0
6/11/2015	3460	A		6/11/2015	236.0
6/12/2015	4090	A		6/12/2015	395.0
6/13/2015	3580	A		6/13/2015	275.0
6/14/2015	3500	A		6/14/2015	246.0
6/15/2015	3210	A		6/15/2015	239.0
6/16/2015	3230	A		6/16/2015	145.0
6/17/2015	4010	A		6/17/2015	29.0
6/18/2015	3800	A		6/18/2015	226.0
6/19/2015	3330	A		6/19/2015	154.0
6/20/2015	3220	A		6/20/2015	103.0
6/21/2015	3050	A		6/21/2015	119.0
6/22/2015	2830	A		6/22/2015	153.0
6/23/2015	2580	A:e		6/23/2015	144.0
6/24/2015	2380	A:e		6/24/2015	140.0
6/25/2015	2170	A:e		6/25/2015	165.0
6/26/2015	2050	A		6/26/2015	209.0
6/27/2015	1910	A		6/27/2015	198.0
6/28/2015	1740	A		6/28/2015	187.0
6/29/2015	1610	A		6/29/2015	166.0
6/30/2015	1550	A		6/30/2015	165.0
7/1/2015	1490	A		7/1/2015	163.0
7/2/2015	1480	A		7/2/2015	143.0
7/3/2015	1360	A		7/3/2015	136.0
7/4/2015	1240	A		7/4/2015	132.0
7/5/2015	1180	A		7/5/2015	125.0
7/6/2015	1180	A		7/6/2015	123.0
7/7/2015	1090	A		7/7/2015	124.0
7/8/2015	1260	A		7/8/2015	120.0
7/9/2015	1280	A		7/9/2015	171.0
7/10/2015	1030	A		7/10/2015	130.0
7/11/2015	937	A		7/11/2015	124.0
7/12/2015	842	A		7/12/2015	116.0
7/13/2015	800	A		7/13/2015	80.0
7/14/2015	836	A		7/14/2015	96.0
7/15/2015	954	A		7/15/2015	105.0
7/16/2015	776	A		7/16/2015	105.0
7/17/2015	687	A		7/17/2015	92.6
7/18/2015	630	A		7/18/2015	73.7
7/19/2015	666	A		7/19/2015	83.1
7/20/2015	600	A		7/20/2015	69.6
7/21/2015	793	A		7/21/2015	57.0
7/22/2015	807	A		7/22/2015	108.0

7/23/2015	658	A		7/23/2015	87.5
7/24/2015	566	A		7/24/2015	61.0
7/25/2015	574	A		7/25/2015	58.6
7/26/2015	511	A		7/26/2015	56.6
7/27/2015	463	A		7/27/2015	51.0
7/28/2015	427	A		7/28/2015	40.9
7/29/2015	381	A		7/29/2015	36.0
7/30/2015	351	A		7/30/2015	35.4
7/31/2015	328	A		7/31/2015	30.3
8/1/2015	317	A		8/1/2015	28.3
8/2/2015	307	A		8/2/2015	15.0
8/3/2015	339	A		8/3/2015	27.3
8/4/2015	310	A		8/4/2015	27.6
8/5/2015	280	A		8/5/2015	25.7
8/6/2015	260	A		8/6/2015	21.8
8/7/2015	243	A		8/7/2015	18.3
8/8/2015	242	A		8/8/2015	19.4
8/9/2015	230	A		8/9/2015	21.1
8/10/2015	220	A		8/10/2015	21.8
8/11/2015	213	A		8/11/2015	12.1
8/12/2015	270	A		8/12/2015	18.9
8/13/2015	241	A		8/13/2015	22.9
8/14/2015	231	A		8/14/2015	21.6
8/15/2015	228	A		8/15/2015	18.4
8/16/2015	246	A		8/16/2015	15.4
8/17/2015	233	A		8/17/2015	25.9
8/18/2015	216	A		8/18/2015	24.4
8/19/2015	193	A		8/19/2015	21.2
8/20/2015	179	A		8/20/2015	19.0
8/21/2015	166	A		8/21/2015	17.6
8/22/2015	160	A		8/22/2015	18.3
8/23/2015	154	A		8/23/2015	17.7
8/24/2015	151	A		8/24/2015	21.3
8/25/2015	144	A		8/25/2015	24.6
8/26/2015	138	A		8/26/2015	22.0
8/27/2015	156	A		8/27/2015	23.1
8/28/2015	186	A		8/28/2015	35.6
8/29/2015	170	A		8/29/2015	35.2
8/30/2015	158	A		8/30/2015	31.8
8/31/2015	158	A		8/31/2015	23.3
9/1/2015	174	A		9/1/2015	30.6
9/2/2015	163	A		9/2/2015	30.3
9/3/2015	169	A		9/3/2015	23.2
9/4/2015	210	A		9/4/2015	29.5
9/5/2015	263	A		9/5/2015	25.7
9/6/2015	232	A		9/6/2015	42.4
9/7/2015	215	A		9/7/2015	34.1

9/8/2015	229	A		9/8/2015	39.1
9/9/2015	194	A		9/9/2015	37.6
9/10/2015	174	A		9/10/2015	35.0
9/11/2015	160	A		9/11/2015	31.6
9/12/2015	153	A		9/12/2015	32.0
9/13/2015	145	A		9/13/2015	29.5
9/14/2015	141	A		9/14/2015	27.5
9/15/2015	151	A		9/15/2015	29.1
9/16/2015	170	A		9/16/2015	37.3
9/17/2015	158	A		9/17/2015	38.4
9/18/2015	144	A		9/18/2015	32.1
9/19/2015	139	A		9/19/2015	29.3
9/20/2015	134	A		9/20/2015	29.4
9/21/2015	133	A		9/21/2015	29.0
9/22/2015	131	A		9/22/2015	28.9
9/23/2015	130	A		9/23/2015	26.1
9/24/2015	128	A		9/24/2015	26.2
9/25/2015	124	A		9/25/2015	24.6
9/26/2015	125	A		9/26/2015	26.5
9/27/2015	120	A		9/27/2015	24.8
9/28/2015	122	A		9/28/2015	25.2
9/29/2015	119	A		9/29/2015	27.7
9/30/2015	115	A		9/30/2015	22.6
10/1/2015	120	A		10/1/2015	25.2
10/2/2015	118	A		10/2/2015	25.7
10/3/2015	118	A		10/3/2015	27.6
10/4/2015	120	A		10/4/2015	30.7
10/5/2015	118	A		10/5/2015	27.2
10/6/2015	132	A		10/6/2015	23.9
10/7/2015	150	A		10/7/2015	31.3
10/8/2015	138	A		10/8/2015	32.4
10/9/2015	128	A		10/9/2015	29.6
10/10/2015	123	A		10/10/2015	29.5
10/11/2015	121	A		10/11/2015	27.5
10/12/2015	120	A		10/12/2015	28.9
10/13/2015	113	A		10/13/2015	26.4
10/14/2015	111	A		10/14/2015	23.9
10/15/2015	111	A		10/15/2015	24.0
10/16/2015	111	A		10/16/2015	24.3
10/17/2015	113	A		10/17/2015	25.3
10/18/2015	114	A		10/18/2015	28.1
10/19/2015	118	A		10/19/2015	29.2
10/20/2015	123	A		10/20/2015	25.6
10/21/2015	121	A		10/21/2015	22.8
10/22/2015	131	A		10/22/2015	20.6
10/23/2015	165	A		10/23/2015	25.4
10/24/2015	154	A		10/24/2015	27.3

10/25/2015	140	A		10/25/2015	24.3
10/26/2015	143	A		10/26/2015	23.4
10/27/2015	142	A		10/27/2015	24.8
10/28/2015	134	A		10/28/2015	30.4
10/29/2015	130	A		10/29/2015	17.7
10/30/2015	135	A		10/30/2015	22.0
10/31/2015	129	A		10/31/2015	24.6
11/1/2015	127	A		11/1/2015	22.4
11/2/2015	126	A		11/2/2015	20.4
11/3/2015	126	A		11/3/2015	22.8
11/4/2015	132	A		11/4/2015	18.5
11/5/2015	137	A		11/5/2015	26.7
11/6/2015	127	A		11/6/2015	24.7
11/7/2015	115	A		11/7/2015	28.1
11/8/2015	111	A		11/8/2015	18.3
11/9/2015	121	A		11/9/2015	24.7
11/10/2015	120	A		11/10/2015	20.8
11/11/2015	134	A		11/11/2015	26.0
11/12/2015	107	A:e		11/12/2015	25.2
11/13/2015	111	A:e		11/13/2015	22.4
11/14/2015	112	A:e		11/14/2015	23.5
11/15/2015	114	A:e		11/15/2015	24.0
11/16/2015	119	A:e		11/16/2015	22.2
11/17/2015	122	A		11/17/2015	22.6
11/18/2015	122	A		11/18/2015	23.3
11/19/2015	119	A		11/19/2015	20.5
11/20/2015	125	A		11/20/2015	22.9
11/21/2015	101	A:e		11/21/2015	28.7
11/22/2015	103	A:e		11/22/2015	26.1
11/23/2015	111	A:e		11/23/2015	22.1
11/24/2015	117	A:e		11/24/2015	25.9
11/25/2015	116	A:e		11/25/2015	25.3
11/26/2015	118	A		11/26/2015	21.9
11/27/2015	113	A		11/27/2015	26.3
11/28/2015	106	A		11/28/2015	23.2
11/29/2015	111	A:e		11/29/2015	26.8
11/30/2015	111	A:e		11/30/2015	28.5
12/1/2015	105	A:e		12/1/2015	31.0
12/2/2015	95.6	A:e		12/2/2015	31.0
12/3/2015	103	A:e		12/3/2015	19.9
12/4/2015	103	A:e		12/4/2015	21.3
12/5/2015	105	A:e		12/5/2015	21.2
12/6/2015	94.2	A:e		12/6/2015	20.7
12/7/2015	96.2	A:e		12/7/2015	18.3
12/8/2015	106	A:e		12/8/2015	21.0
12/9/2015	103	A:e		12/9/2015	21.1
12/10/2015	105	A:e		12/10/2015	21.9

12/11/2015	107	A		12/11/2015	25.2
12/12/2015	105	A		12/12/2015	22.9
12/13/2015	93.4	A:e		12/13/2015	20.1
12/14/2015	88.6	A:e		12/14/2015	17.9
12/15/2015	96.5	A:e		12/15/2015	19.2
12/16/2015	88.9	A:e		12/16/2015	19.0
12/17/2015	84.7	A:e		12/17/2015	18.2
12/18/2015	88	A:e		12/18/2015	16.3
12/19/2015	93.7	A:e		12/19/2015	18.5
12/20/2015	104	A:e		12/20/2015	22.3
12/21/2015	101	A:e		12/21/2015	21.6
12/22/2015	103	A:e		12/22/2015	21.4
12/23/2015	101	A:e		12/23/2015	21.2
12/24/2015	86.8	A:e		12/24/2015	19.8
12/25/2015	107	A:e		12/25/2015	21.7
12/26/2015	94.1	A:e		12/26/2015	21.7
12/27/2015	74.9	A:e		12/27/2015	20.1
12/28/2015	82.4	A:e		12/28/2015	15.8
12/29/2015	96.4	A:e		12/29/2015	19.0
12/30/2015	101	A:e		12/30/2015	21.8
12/31/2015	98.2	A:e		12/31/2015	21.2
1/1/2016	91.6	A:e		1/1/2016	20.1
1/2/2016	93.7	A:e		1/2/2016	20.8
1/3/2016	101	A:e		1/3/2016	22.9
1/4/2016	99.5	A:e		1/4/2016	22.5
1/5/2016	97.8	A:e		1/5/2016	21.9
1/6/2016	96.5	A:e		1/6/2016	21.3
1/7/2016	99.1	A:e		1/7/2016	22.2
1/8/2016	91.5	A:e		1/8/2016	20.8
1/9/2016	95.3	A:e		1/9/2016	21.3
1/10/2016	92.5	A:e		1/10/2016	21.7
1/11/2016	81.5	A:e		1/11/2016	18.1
1/12/2016	80	A:e		1/12/2016	17.8
1/13/2016	93.4	A:e		1/13/2016	21.2
1/14/2016	90.3	A:e		1/14/2016	21.0
1/15/2016	99.1	A:e		1/15/2016	23.0
1/16/2016	93	A:e		1/16/2016	19.5
1/17/2016	90	A:e		1/17/2016	15.9
1/18/2016	93.7	A:e		1/18/2016	21.0
1/19/2016	94.4	A:e		1/19/2016	21.0
1/20/2016	90.3	A:e		1/20/2016	20.0
1/21/2016	92.3	A:e		1/21/2016	20.9
1/22/2016	85.7	A:e		1/22/2016	19.4
1/23/2016	94.9	A:e		1/23/2016	21.6
1/24/2016	94.6	A:e		1/24/2016	21.8
1/25/2016	94.9	A:e		1/25/2016	21.9
1/26/2016	85.9	A:e		1/26/2016	19.4

1/27/2016	84.6	A:e		1/27/2016	18.5
1/28/2016	94.1	A:e		1/28/2016	21.8
1/29/2016	100	A:e		1/29/2016	23.0
1/30/2016	99.3	A:e		1/30/2016	22.2
1/31/2016	97	A:e		1/31/2016	21.7
2/1/2016	96.7	A:e		2/1/2016	21.2
2/2/2016	94	A:e		2/2/2016	20.6
2/3/2016	88.8	A:e		2/3/2016	19.8
2/4/2016	81	A:e		2/4/2016	19.3
2/5/2016	102	A:e		2/5/2016	24.4
2/6/2016	91.5	A:e		2/6/2016	21.7
2/7/2016	102	A:e		2/7/2016	24.9
2/8/2016	96.2	A:e		2/8/2016	22.4
2/9/2016	90.8	A:e		2/9/2016	20.5
2/10/2016	91	A:e		2/10/2016	20.5
2/11/2016	92	A:e		2/11/2016	20.8
2/12/2016	92	A:e		2/12/2016	19.6
2/13/2016	94	A:e		2/13/2016	19.6
2/14/2016	92	A:e		2/14/2016	19.2
2/15/2016	92	A:e		2/15/2016	18.6
2/16/2016	93	A:e		2/16/2016	18.9
2/17/2016	93	A:e		2/17/2016	20.4
2/18/2016	102	A:e		2/18/2016	23.4
2/19/2016	109	A:e		2/19/2016	28.7
2/20/2016	110	A:e		2/20/2016	33.7
2/21/2016	110	A:e		2/21/2016	33.9
2/22/2016	110	A:e		2/22/2016	33.8
2/23/2016	108	A		2/23/2016	32.3
2/24/2016	95	A:e		2/24/2016	27.4
2/25/2016	100	A:e		2/25/2016	24.2
2/26/2016	107	A:e		2/26/2016	28.7
2/27/2016	108	A		2/27/2016	30.1
2/28/2016	111	A		2/28/2016	32.1
2/29/2016	105	A:e		2/29/2016	27.9
3/1/2016	108	A:e		3/1/2016	30.7
3/2/2016	113	A		3/2/2016	35.0
3/3/2016	110	A		3/3/2016	34.5
3/4/2016	110	A		3/4/2016	32.6
3/5/2016	111	A		3/5/2016	32.1
3/6/2016	114	A		3/6/2016	33.0
3/7/2016	119	A		3/7/2016	35.5
3/8/2016	111	A		3/8/2016	33.5
3/9/2016	105	A		3/9/2016	30.4
3/10/2016	106	A		3/10/2016	28.3
3/11/2016	113	A		3/11/2016	31.2
3/12/2016	121	A		3/12/2016	30.9
3/13/2016	124	A		3/13/2016	32.7

3/14/2016	127	A		3/14/2016	33.1
3/15/2016	124	A		3/15/2016	35.0
3/16/2016	120	A		3/16/2016	31.0
3/17/2016	120	A		3/17/2016	31.5
3/18/2016	118	A		3/18/2016	32.3
3/19/2016	108	A		3/19/2016	29.4
3/20/2016	107	A		3/20/2016	24.9
3/21/2016	121	A		3/21/2016	28.4
3/22/2016	131	A		3/22/2016	29.1
3/23/2016	143	A		3/23/2016	36.7
3/24/2016	129	A		3/24/2016	30.8
3/25/2016	130	A		3/25/2016	32.2
3/26/2016	118	A		3/26/2016	31.5
3/27/2016	117	A		3/27/2016	27.0
3/28/2016	126	A		3/28/2016	31.9
3/29/2016	131	A		3/29/2016	31.0
3/30/2016	131	A		3/30/2016	31.3
3/31/2016	128	A		3/31/2016	30.3
4/1/2016	118	A		4/1/2016	29.3
4/2/2016	121	A		4/2/2016	27.4
4/3/2016	130	A		4/3/2016	23.7
4/4/2016	144	A		4/4/2016	22.4
4/5/2016	162	A		4/5/2016	18.0
4/6/2016	147	A		4/6/2016	21.7
4/7/2016	167	A		4/7/2016	17.2
4/8/2016	195	A		4/8/2016	14.3
4/9/2016	229	A		4/9/2016	20.8
4/10/2016	247	A		4/10/2016	25.7
4/11/2016	255	A		4/11/2016	26.6
4/12/2016	255	A		4/12/2016	23.0
4/13/2016	295	A		4/13/2016	22.6
4/14/2016	333	A		4/14/2016	31.6
4/15/2016	356	A		4/15/2016	43.5
4/16/2016	314	A		4/16/2016	48.4
4/17/2016	279	A		4/17/2016	45.2
4/18/2016	252	A		4/18/2016	41.9
4/19/2016	237	A		4/19/2016	40.8
4/20/2016	226	A		4/20/2016	36.1
4/21/2016	232	A		4/21/2016	30.6
4/22/2016	282	A		4/22/2016	23.1
4/23/2016	385	A		4/23/2016	19.3
4/24/2016	477	A		4/24/2016	64.8
4/25/2016	434	A		4/25/2016	51.9
4/26/2016	475	A		4/26/2016	70.7
4/27/2016	414	A		4/27/2016	58.9
4/28/2016	376	A		4/28/2016	50.6
4/29/2016	354	A		4/29/2016	52.1

4/30/2016	334	A		4/30/2016	52.2
5/1/2016	307	A		5/1/2016	48.3
5/2/2016	303	A		5/2/2016	43.3
5/3/2016	329	A		5/3/2016	36.2
5/4/2016	400	A		5/4/2016	27.7
5/5/2016	581	A		5/5/2016	43.3
5/6/2016	818	A		5/6/2016	80.6
5/7/2016	983	A		5/7/2016	118.9
5/8/2016	888	A		5/8/2016	114.4
5/9/2016	806	A		5/9/2016	105.4
5/10/2016	843	A		5/10/2016	116.2
5/11/2016	743	A		5/11/2016	90.7
5/12/2016	647	A		5/12/2016	42.3
5/13/2016	702	A		5/13/2016	24.6
5/14/2016	922	A		5/14/2016	21.8
5/15/2016	1240	A		5/15/2016	74.0
5/16/2016	1390	A		5/16/2016	135.0
5/17/2016	1190	A		5/17/2016	100.1
5/18/2016	1120	A		5/18/2016	68.8
5/19/2016	1140	A		5/19/2016	39.1
5/20/2016	1320	A		5/20/2016	53.0
5/21/2016	1570	A		5/21/2016	94.0
5/22/2016	1950	A		5/22/2016	120.0
5/23/2016	1970	A		5/23/2016	131.0
5/24/2016	1630	A		5/24/2016	120.0
5/25/2016	1770	A		5/25/2016	129.0
5/26/2016	1790	A		5/26/2016	177.0
5/27/2016	1590	A		5/27/2016	142.0
5/28/2016	1410	A		5/28/2016	127.0
5/29/2016	1370	A		5/29/2016	93.0
5/30/2016	1560	A		5/30/2016	108.0
5/31/2016	1640	A		5/31/2016	99.0
6/1/2016	1880	A		6/1/2016	109.0
6/2/2016	2240	A		6/2/2016	156.0
6/3/2016	2610	A		6/3/2016	153.0
6/4/2016	3030	A		6/4/2016	18.0
6/5/2016	3580	A		6/5/2016	37.0
6/6/2016	3810	A		6/6/2016	133.0
6/7/2016	3680	A		6/7/2016	135.0
6/8/2016	3610	A		6/8/2016	114.0
6/9/2016	3680	A		6/9/2016	72.0
6/10/2016	3740	A		6/10/2016	56.0
6/11/2016	3950	A		6/11/2016	122.0
6/12/2016	3860	A		6/12/2016	126.0
6/13/2016	3470	A		6/13/2016	110.0
6/14/2016	3140	A		6/14/2016	149.0
6/15/2016	2760	A		6/15/2016	204.0

6/16/2016	2740	A		6/16/2016	214.0
6/17/2016	2620	A		6/17/2016	239.0
6/18/2016	2550	A		6/18/2016	224.0
6/19/2016	2520	A		6/19/2016	188.0
6/20/2016	2640	A		6/20/2016	147.0
6/21/2016	2730	A		6/21/2016	127.0
6/22/2016	2550	A		6/22/2016	125.0
6/23/2016	2930	A		6/23/2016	142.0
6/24/2016	2410	A		6/24/2016	201.0
6/25/2016	2090	A		6/25/2016	117.0
6/26/2016	1890	A		6/26/2016	94.0
6/27/2016	1680	A		6/27/2016	93.0
6/28/2016	1430	A		6/28/2016	74.0
6/29/2016	1290	A		6/29/2016	46.0
6/30/2016	1200	A		6/30/2016	34.0
7/1/2016	1350	A		7/1/2016	19.0
7/2/2016	1460	A		7/2/2016	49.0
7/3/2016	1390	A		7/3/2016	92.0
7/4/2016	1160	A		7/4/2016	87.0
7/5/2016	1050	A		7/5/2016	67.0
7/6/2016	972	A		7/6/2016	60.0
7/7/2016	883	A		7/7/2016	58.0
7/8/2016	789	A		7/8/2016	54.0
7/9/2016	723	A		7/9/2016	47.0
7/10/2016	676	A		7/10/2016	44.0
7/11/2016	643	A		7/11/2016	42.0
7/12/2016	571	A		7/12/2016	39.7
7/13/2016	514	A		7/13/2016	35.8
7/14/2016	476	A		7/14/2016	30.8
7/15/2016	447	A		7/15/2016	35.0
7/16/2016	420	A		7/16/2016	38.8
7/17/2016	396	A		7/17/2016	37.9
7/18/2016	386	A		7/18/2016	35.2
7/19/2016	434	A		7/19/2016	37.3
7/20/2016	443	A		7/20/2016	24.4
7/21/2016	573	A		7/21/2016	44.0
7/22/2016	544	A		7/22/2016	56.0
7/23/2016	452	A		7/23/2016	40.0
7/24/2016	389	A		7/24/2016	29.1
7/25/2016	352	A		7/25/2016	29.8
7/26/2016	321	A		7/26/2016	27.8
7/27/2016	298	A		7/27/2016	23.6
7/28/2016	273	A		7/28/2016	21.4
7/29/2016	256	A		7/29/2016	20.5
7/30/2016	244	A		7/30/2016	18.1
7/31/2016	234	A		7/31/2016	16.4
8/1/2016	241	A		8/1/2016	18.1

8/2/2016	225	A		8/2/2016	23.3
8/3/2016	212	A		8/3/2016	23.7
8/4/2016	207	A		8/4/2016	12.4
8/5/2016	303	A		8/5/2016	18.6
8/6/2016	335	A		8/6/2016	42.1
8/7/2016	289	A		8/7/2016	41.2
8/8/2016	266	A		8/8/2016	29.1
8/9/2016	264	A		8/9/2016	35.2
8/10/2016	261	A		8/10/2016	28.3
8/11/2016	255	A		8/11/2016	29.6
8/12/2016	233	A		8/12/2016	28.5
8/13/2016	209	A		8/13/2016	24.3
8/14/2016	194	A		8/14/2016	24.3
8/15/2016	180	A		8/15/2016	25.7
8/16/2016	171	A		8/16/2016	25.3
8/17/2016	167	A		8/17/2016	24.6
8/18/2016	168	A		8/18/2016	23.7
8/19/2016	184	A		8/19/2016	20.1
8/20/2016	181	A		8/20/2016	27.7
8/21/2016	164	A		8/21/2016	27.5
8/22/2016	155	A		8/22/2016	25.0
8/23/2016	154	A		8/23/2016	24.6
8/24/2016	156	A		8/24/2016	23.0
8/25/2016	162	A		8/25/2016	30.7
8/26/2016	180	A		8/26/2016	26.3
8/27/2016	179	A		8/27/2016	36.1
8/28/2016	165	A		8/28/2016	26.8
8/29/2016	192	A		8/29/2016	33.7
8/30/2016	175	A		8/30/2016	36.2
8/31/2016	161	A		8/31/2016	31.2
9/1/2016	151	A		9/1/2016	29.6
9/2/2016	165	A		9/2/2016	12.4
9/3/2016	205	A		9/3/2016	38.4
9/4/2016	202	A		9/4/2016	31.7
9/5/2016	196	A		9/5/2016	38.6
9/6/2016	168	A		9/6/2016	34.2
9/7/2016	151	A		9/7/2016	27.4
9/8/2016	144	A		9/8/2016	27.1
9/9/2016	137	A		9/9/2016	24.4
9/10/2016	134	A		9/10/2016	26.5
9/11/2016	128	A		9/11/2016	26.1
9/12/2016	126	A		9/12/2016	24.8
9/13/2016	125	A		9/13/2016	25.2
9/14/2016	124	A		9/14/2016	26.7
9/15/2016	126	A		9/15/2016	22.1
9/16/2016	129	A		9/16/2016	27.1
9/17/2016	124	A		9/17/2016	25.2

9/18/2016	119	A		9/18/2016	25.9
9/19/2016	117	A		9/19/2016	24.7
9/20/2016	114	A		9/20/2016	24.6
9/21/2016	113	A		9/21/2016	24.7
9/22/2016	116	A		9/22/2016	26.8
9/23/2016	117	A		9/23/2016	26.5
9/24/2016	126	A		9/24/2016	32.5
9/25/2016	126	A		9/25/2016	31.0
9/26/2016	124	A		9/26/2016	31.7
9/27/2016	122	A		9/27/2016	31.5
9/28/2016	115	A		9/28/2016	27.0
9/29/2016	117	A		9/29/2016	28.7
9/30/2016	117	A		9/30/2016	29.5
10/1/2016	119	A		10/1/2016	28.5
10/2/2016	117	A		10/2/2016	28.8
10/3/2016	118	A		10/3/2016	30.5
10/4/2016	118	A		10/4/2016	32.4
10/5/2016	113	A		10/5/2016	28.6
10/6/2016	121	A		10/6/2016	28.9
10/7/2016	124	A		10/7/2016	33.4
10/8/2016	122	A		10/8/2016	31.0
10/9/2016	122	A		10/9/2016	29.5
10/10/2016	123	A		10/10/2016	30.8
10/11/2016	130	A		10/11/2016	28.3
10/12/2016	142	A		10/12/2016	32.0
10/13/2016	134	A		10/13/2016	31.2
10/14/2016	129	A		10/14/2016	30.5
10/15/2016	124	A		10/15/2016	29.4
10/16/2016	120	A		10/16/2016	29.4
10/17/2016	115	A		10/17/2016	24.6
10/18/2016	115	A		10/18/2016	26.7
10/19/2016	119	A		10/19/2016	27.7
10/20/2016	120	A		10/20/2016	32.3
10/21/2016	112	A		10/21/2016	26.1
10/22/2016	114	A		10/22/2016	25.1
10/23/2016	116	A		10/23/2016	26.8
10/24/2016	116	A		10/24/2016	25.5
10/25/2016	119	A		10/25/2016	27.1
10/26/2016	121	A		10/26/2016	26.9
10/27/2016	121	A		10/27/2016	28.2
10/28/2016	117	A		10/28/2016	25.2
10/29/2016	122	A		10/29/2016	29.5
10/30/2016	118	A		10/30/2016	26.0
10/31/2016	120	A		10/31/2016	28.6
11/1/2016	115	A		11/1/2016	28.2
11/2/2016	122	A		11/2/2016	26.5
11/3/2016	120	A		11/3/2016	29.4

11/4/2016	115	A		11/4/2016	28.0
11/5/2016	115	A		11/5/2016	25.1
11/6/2016	123	A		11/6/2016	26.6
11/7/2016	121	A		11/7/2016	29.7
11/8/2016	115	A		11/8/2016	29.8
11/9/2016	111	A		11/9/2016	29.0
11/10/2016	110	A		11/10/2016	27.4
11/11/2016	110	A		11/11/2016	26.6
11/12/2016	109	A		11/12/2016	30.2
11/13/2016	105	A		11/13/2016	26.0
11/14/2016	106	A		11/14/2016	30.7
11/15/2016	103	A		11/15/2016	27.2
11/16/2016	99.6	A		11/16/2016	27.4
11/17/2016	104	A		11/17/2016	26.6
11/18/2016	94.1	A		11/18/2016	36.9
11/19/2016	68.9	A:e		11/19/2016	14.5
11/20/2016	95.6	A		11/20/2016	23.3
11/21/2016	113	A		11/21/2016	28.5
11/22/2016	119	A		11/22/2016	29.9
11/23/2016	106	A		11/23/2016	36.5
11/24/2016	96.3	A		11/24/2016	29.3
11/25/2016	79.7	A:e		11/25/2016	24.9
11/26/2016	75.3	A:e		11/26/2016	17.9
11/27/2016	83.8	A:e		11/27/2016	10.3
11/28/2016	84.1	A:e		11/28/2016	10.3
11/29/2016	79.1	A:e		11/29/2016	9.3
11/30/2016	69.6	A:e		11/30/2016	12.3
12/1/2016	75.1	A:e		12/1/2016	12.9
12/2/2016	78.3	A:e		12/2/2016	11.6
12/3/2016	73.6	A:e		12/3/2016	7.9
12/4/2016	66.6	A:e		12/4/2016	7.2
12/5/2016	84.3	A:e		12/5/2016	11.7
12/6/2016	77.3	A:e		12/6/2016	9.8
12/7/2016	71.7	A:e		12/7/2016	8.9
12/8/2016	59.7	A:e		12/8/2016	6.8
12/9/2016	84.7	A:e		12/9/2016	10.7
12/10/2016	92.8	A:e		12/10/2016	13.5
12/11/2016	94.5	A:e		12/11/2016	14.2
12/12/2016	92.6	A:e		12/12/2016	13.3
12/13/2016	89.3	A:e		12/13/2016	12.5
12/14/2016	90.8	A:e		12/14/2016	13.2
12/15/2016	91.4	A:e		12/15/2016	13.5
12/16/2016	101	A:e		12/16/2016	15.4
12/17/2016	85.4	A:e		12/17/2016	13.2
12/18/2016	60.2	A:e		12/18/2016	8.5
12/19/2016	61.1	A:e		12/19/2016	6.1
12/20/2016	104	A:e		12/20/2016	13.4

12/21/2016	109	A:e		12/21/2016	15.9
12/22/2016	102	A:e		12/22/2016	15.1
12/23/2016	101	A:e		12/23/2016	15.8
12/24/2016	93.7	A:e		12/24/2016	14.2
12/25/2016	94.9	A:e		12/25/2016	14.7
12/26/2016	86.2	A:e		12/26/2016	12.9
12/27/2016	71.4	A:e		12/27/2016	9.5
12/28/2016	100	A:e		12/28/2016	16.2
12/29/2016	86.4	A:e		12/29/2016	13.6
12/30/2016	84.7	A:e		12/30/2016	13.4
12/31/2016	83.2	A:e		12/31/2016	12.7
1/1/2017	84.5	A:e		1/1/2017	13.6
1/2/2017	83.2	A:e		1/2/2017	13.1
1/3/2017	87.3	A:e		1/3/2017	14.6
1/4/2017	85.6	A:e		1/4/2017	14.0
1/5/2017	84	A:e		1/5/2017	13.2
1/6/2017	69.6	A:e		1/6/2017	9.9
1/7/2017	64.1	A:e		1/7/2017	7.7
1/8/2017	94.7	A:e		1/8/2017	15.0
1/9/2017	110	A:e		1/9/2017	18.7
1/10/2017	108	A:e		1/10/2017	18.3
1/11/2017	107	A:e		1/11/2017	17.2
1/12/2017	104	A:e		1/12/2017	15.8
1/13/2017	112	A:e		1/13/2017	18.1
1/14/2017	111	A:e		1/14/2017	18.0
1/15/2017	106	A:e		1/15/2017	17.1
1/16/2017	105	A:e		1/16/2017	17.2
1/17/2017	99.1	A:e		1/17/2017	16.2
1/18/2017	83	A:e		1/18/2017	12.8
1/19/2017	79.7	A:e		1/19/2017	12.7
1/20/2017	87.5	A:e		1/20/2017	4.3
1/21/2017	94.3	A:e		1/21/2017	20.7
1/22/2017	98.7	A:e		1/22/2017	18.4
1/23/2017	101	A:e		1/23/2017	21.2
1/24/2017	101	A:e		1/24/2017	23.5
1/25/2017	101	A:e		1/25/2017	25.5
1/26/2017	89.8	A:e		1/26/2017	17.1
1/27/2017	72.8	A:e		1/27/2017	11.0
1/28/2017	72.1	A:e		1/28/2017	3.6
1/29/2017	79.7	A:e		1/29/2017	0.4
1/30/2017	95.5	A:e		1/30/2017	16.6
1/31/2017	102	A:e		1/31/2017	21.8
2/1/2017	101	A:e		2/1/2017	19.1
2/2/2017	101	A:e		2/2/2017	23.0
2/3/2017	101	A:e		2/3/2017	23.0
2/4/2017	103	A:e		2/4/2017	24.9
2/5/2017	108	A:e		2/5/2017	29.9

2/6/2017	110	A:e		2/6/2017	32.4
2/7/2017	111	A:e		2/7/2017	32.0
2/8/2017	111	A:e		2/8/2017	30.3
2/9/2017	114	A:e		2/9/2017	31.4
2/10/2017	123	A:e		2/10/2017	34.3
2/11/2017	141	A:e		2/11/2017	40.3
2/12/2017	137	A:e		2/12/2017	45.4
2/13/2017	124	A:e		2/13/2017	37.4
2/14/2017	116	A:e		2/14/2017	36.5
2/15/2017	105	A:e		2/15/2017	28.2
2/16/2017	103	A:e		2/16/2017	21.7
2/17/2017	108	A:e		2/17/2017	22.8
2/18/2017	117	A:e		2/18/2017	28.5
2/19/2017	121	A:e		2/19/2017	34.2
2/20/2017	122	A:e		2/20/2017	35.4
2/21/2017	121	A:e		2/21/2017	33.4
2/22/2017	121	A:e		2/22/2017	32.0
2/23/2017	120	A:e		2/23/2017	31.1
2/24/2017	113	A:e		2/24/2017	33.3
2/25/2017	109	A:e		2/25/2017	33.0
2/26/2017	105	A:e		2/26/2017	30.7
2/27/2017	103	A:e		2/27/2017	27.1
2/28/2017	107	A:e		2/28/2017	24.6
3/1/2017	106	A:e		3/1/2017	30.4
3/2/2017	103	A:e		3/2/2017	29.0
3/3/2017	104	A:e		3/3/2017	26.3
3/4/2017	112	A:e		3/4/2017	34.8
3/5/2017	117	A:e		3/5/2017	36.7
3/6/2017	113	A:e		3/6/2017	37.6
3/7/2017	104	A:e		3/7/2017	31.3
3/8/2017	115	A:e		3/8/2017	35.7
3/9/2017	117	A		3/9/2017	35.5
3/10/2017	125	A		3/10/2017	38.4
3/11/2017	134	A		3/11/2017	38.4
3/12/2017	137	A		3/12/2017	38.5
3/13/2017	130	A		3/13/2017	39.1
3/14/2017	131	A		3/14/2017	36.2
3/15/2017	145	A		3/15/2017	36.0
3/16/2017	167	A		3/16/2017	36.7
3/17/2017	191	A		3/17/2017	38.3
3/18/2017	214	A		3/18/2017	38.1
3/19/2017	255	A		3/19/2017	36.0
3/20/2017	297	A		3/20/2017	46.4
3/21/2017	286	A		3/21/2017	46.7
3/22/2017	295	A		3/22/2017	49.8
3/23/2017	297	A		3/23/2017	47.6
3/24/2017	292	A		3/24/2017	47.9

3/25/2017	262	A		3/25/2017	43.5
3/26/2017	268	A		3/26/2017	45.4
3/27/2017	257	A		3/27/2017	45.8
3/28/2017	260	A		3/28/2017	45.7
3/29/2017	256	A		3/29/2017	49.4
3/30/2017	252	A		3/30/2017	33.5
3/31/2017	252	A		3/31/2017	31.7
4/1/2017	243	A		4/1/2017	38.1
4/2/2017	243	A		4/2/2017	39.7
4/3/2017	249	A		4/3/2017	36.9
4/4/2017	242	A		4/4/2017	40.2
4/5/2017	224	A		4/5/2017	40.4
4/6/2017	220	A		4/6/2017	37.4
4/7/2017	238	A		4/7/2017	28.9
4/8/2017	292	A		4/8/2017	21.9
4/9/2017	346	A		4/9/2017	39.4
4/10/2017	298	A		4/10/2017	37.5
4/11/2017	292	A		4/11/2017	37.1
4/12/2017	290	A		4/12/2017	29.2
4/13/2017	354	A		4/13/2017	10.5
4/14/2017	477	A		4/14/2017	26.7
4/15/2017	563	A		4/15/2017	61.4
4/16/2017	577	A		4/16/2017	70.1
4/17/2017	604	A		4/17/2017	72.5
4/18/2017	621	A		4/18/2017	57.3
4/19/2017	774	A		4/19/2017	58.7
4/20/2017	694	A		4/20/2017	90.9
4/21/2017	616	A		4/21/2017	92.2
4/22/2017	525	A		4/22/2017	70.1
4/23/2017	484	A		4/23/2017	48.7
4/24/2017	538	A		4/24/2017	55.7
4/25/2017	560	A		4/25/2017	70.5
4/26/2017	504	A		4/26/2017	58.8
4/27/2017	482	A		4/27/2017	52.0
4/28/2017	436	A		4/28/2017	41.9
4/29/2017	396	A		4/29/2017	37.7
4/30/2017	366	A		4/30/2017	32.3
5/1/2017	358	A		5/1/2017	29.3
5/2/2017	346	A		5/2/2017	19.0
5/3/2017	348	A		5/3/2017	26.7
5/4/2017	347	A		5/4/2017	18.1
5/5/2017	426	A		5/5/2017	0.6
5/6/2017	615	A		5/6/2017	14.9
5/7/2017	787	A		5/7/2017	16.6
5/8/2017	880	A		5/8/2017	28.4
5/9/2017	978	A		5/9/2017	30.0
5/10/2017	1070	A		5/10/2017	53.0

5/11/2017	1020	A		5/11/2017	32.6
5/12/2017	1260	A		5/12/2017	36.0
5/13/2017	1570	A		5/13/2017	73.0
5/14/2017	1790	A		5/14/2017	136.0
5/15/2017	1700	A		5/15/2017	156.0
5/16/2017	1650	A		5/16/2017	152.0
5/17/2017	1430	A		5/17/2017	146.0
5/18/2017	1260	A		5/18/2017	117.0
5/19/2017	1060	A		5/19/2017	91.7
5/20/2017	934	A		5/20/2017	100.6
5/21/2017	836	A		5/21/2017	85.1
5/22/2017	851	A		5/22/2017	82.7
5/23/2017	840	A		5/23/2017	97.2
5/24/2017	804	A		5/24/2017	73.3
5/25/2017	997	A		5/25/2017	45.7
5/26/2017	1190	A		5/26/2017	73.0
5/27/2017	1330	A		5/27/2017	102.0
5/28/2017	1170	A		5/28/2017	96.5
5/29/2017	1130	A		5/29/2017	75.4
5/30/2017	1240	A		5/30/2017	64.0
5/31/2017	1490	A		5/31/2017	97.0
6/1/2017	1690	A		6/1/2017	121.0
6/2/2017	1970	A		6/2/2017	144.0
6/3/2017	2130	A		6/3/2017	145.0
6/4/2017	2420	A		6/4/2017	159.0
6/5/2017	2830	A		6/5/2017	261.0
6/6/2017	2820	A		6/6/2017	301.0
6/7/2017	2830	A		6/7/2017	252.0
6/8/2017	2870	A		6/8/2017	109.0
6/9/2017	3120	A		6/9/2017	81.0
6/10/2017	2980	A		6/10/2017	17.0
6/11/2017	3090	A		6/11/2017	77.0
6/12/2017	2880	A		6/12/2017	95.0
6/13/2017	2670	A		6/13/2017	225.0
6/14/2017	2100	A		6/14/2017	156.0
6/15/2017	2090	A		6/15/2017	118.0
6/16/2017	2200	A		6/16/2017	123.0
6/17/2017	2430	A		6/17/2017	111.0
6/18/2017	2680	A		6/18/2017	103.0
6/19/2017	2590	A		6/19/2017	155.0
6/20/2017	2340	A		6/20/2017	169.0
6/21/2017	2300	A		6/21/2017	159.0
6/22/2017	2200	A		6/22/2017	138.0
6/23/2017	2270	A		6/23/2017	154.0
6/24/2017	2060	A		6/24/2017	118.0
6/25/2017	1850	A		6/25/2017	90.0
6/26/2017	1730	A		6/26/2017	73.0

6/27/2017	1620	A		6/27/2017	61.0
6/28/2017	1550	A		6/28/2017	74.0
6/29/2017	1370	A		6/29/2017	42.0
6/30/2017	1280	A		6/30/2017	42.0
7/1/2017	1180	A		7/1/2017	30.0
7/2/2017	1120	A		7/2/2017	31.0
7/3/2017	1000	A		7/3/2017	34.0
7/4/2017	918	A		7/4/2017	32.0
7/5/2017	911	A		7/5/2017	26.0
7/6/2017	903	A		7/6/2017	36.0
7/7/2017	842	A		7/7/2017	37.0
7/8/2017	810	A		7/8/2017	34.0
7/9/2017	771	A		7/9/2017	31.0
7/10/2017	755	A		7/10/2017	23.0
7/11/2017	879	A		7/11/2017	21.0
7/12/2017	1020	A		7/12/2017	11.0
7/13/2017	1040	A		7/13/2017	53.0
7/14/2017	852	A		7/14/2017	37.0
7/15/2017	758	A		7/15/2017	35.0
7/16/2017	667	A		7/16/2017	23.8
7/17/2017	619	A		7/17/2017	17.8
7/18/2017	569	A		7/18/2017	10.5
7/19/2017	536	A		7/19/2017	2.9
7/20/2017	568	A		7/20/2017	-4.6
7/21/2017	599	A		7/21/2017	6.0
7/22/2017	658	A		7/22/2017	44.0
7/23/2017	514	A		7/23/2017	30.0
7/24/2017	440	A		7/24/2017	18.8
7/25/2017	411	A		7/25/2017	3.8
7/26/2017	461	A		7/26/2017	5.9
7/27/2017	419	A		7/27/2017	17.3
7/28/2017	384	A		7/28/2017	12.0
7/29/2017	474	A		7/29/2017	-16.5
7/30/2017	480	A		7/30/2017	32.9
7/31/2017	391	A		7/31/2017	22.7
8/1/2017	340	A		8/1/2017	19.1
8/2/2017	305	A		8/2/2017	16.2
8/3/2017	294	A		8/3/2017	17.7
8/4/2017	278	A		8/4/2017	20.9
8/5/2017	262	A		8/5/2017	19.5
8/6/2017	253	A		8/6/2017	16.9
8/7/2017	240	A		8/7/2017	18.3
8/8/2017	279	A		8/8/2017	-3.3
8/9/2017	326	A		8/9/2017	22.1
8/10/2017	309	A		8/10/2017	8.6
8/11/2017	333	A		8/11/2017	24.3
8/12/2017	283	A		8/12/2017	23.4

8/13/2017	252	A		8/13/2017	20.4
8/14/2017	238	A		8/14/2017	19.6
8/15/2017	222	A		8/15/2017	17.0
8/16/2017	208	A		8/16/2017	19.1
8/17/2017	194	A		8/17/2017	16.0
8/18/2017	185	A		8/18/2017	14.3
8/19/2017	174	A		8/19/2017	11.2
8/20/2017	163	A		8/20/2017	12.8
8/21/2017	160	A		8/21/2017	13.7
8/22/2017	155	A		8/22/2017	14.5
8/23/2017	152	A		8/23/2017	13.3
8/24/2017	150	A		8/24/2017	6.7
8/25/2017	165	A		8/25/2017	14.3
8/26/2017	148	A		8/26/2017	15.1
8/27/2017	136	A		8/27/2017	11.7
8/28/2017	134	A		8/28/2017	12.1
8/29/2017	127	A		8/29/2017	13.9
8/30/2017	121	A		8/30/2017	13.9
8/31/2017	117	A		8/31/2017	11.7
9/1/2017	118	A		9/1/2017	8.8
9/2/2017	123	A		9/2/2017	12.3
9/3/2017	118	A		9/3/2017	14.9
9/4/2017	113	A		9/4/2017	13.3
9/5/2017	110	A		9/5/2017	14.2
9/6/2017	105	A		9/6/2017	13.4
9/7/2017	105	A		9/7/2017	12.5
9/8/2017	102	A		9/8/2017	11.1
9/9/2017	107	A		9/9/2017	11.7
9/10/2017	109	A		9/10/2017	11.1
9/11/2017	146	A		9/11/2017	6.5
9/12/2017	169	A		9/12/2017	19.8
9/13/2017	154	A		9/13/2017	23.6
9/14/2017	137	A		9/14/2017	20.3
9/15/2017	151	A		9/15/2017	14.4
9/16/2017	162	A		9/16/2017	27.6
9/17/2017	151	A		9/17/2017	25.0
9/18/2017	142	A		9/18/2017	24.1
9/19/2017	133	A		9/19/2017	24.7
9/20/2017	120	A		9/20/2017	19.0
9/21/2017	117	A		9/21/2017	18.3
9/22/2017	114	A		9/22/2017	18.0
9/23/2017	118	A		9/23/2017	15.6
9/24/2017	139	A		9/24/2017	23.4
9/25/2017	134	A		9/25/2017	23.3
9/26/2017	130	A		9/26/2017	27.5
9/27/2017	129	A		9/27/2017	29.1
9/28/2017	130	A		9/28/2017	26.7

9/29/2017	134	A		9/29/2017	29.7
9/30/2017	135	A		9/30/2017	26.7
10/1/2017	184	A		10/1/2017	18.0
10/2/2017	271	A		10/2/2017	65.1
10/3/2017	223	A		10/3/2017	49.9
10/4/2017	227	A		10/4/2017	36.6
10/5/2017	249	A		10/5/2017	32.4
10/6/2017	255	A		10/6/2017	35.5
10/7/2017	229	A		10/7/2017	43.4
10/8/2017	201	A		10/8/2017	34.3
10/9/2017	198	A		10/9/2017	35.2
10/10/2017	182	A		10/10/2017	34.3
10/11/2017	178	A		10/11/2017	29.5
10/12/2017	168	A		10/12/2017	24.8
10/13/2017	161	A		10/13/2017	20.8
10/14/2017	155	A		10/14/2017	22.8
10/15/2017	135	A		10/15/2017	20.6
10/16/2017	142	A		10/16/2017	15.9
10/17/2017	138	A		10/17/2017	18.5
10/18/2017	135	A		10/18/2017	16.7
10/19/2017	133	A		10/19/2017	15.5
10/20/2017	132	A		10/20/2017	15.4
10/21/2017	145	A		10/21/2017	18.4
10/22/2017	133	A		10/22/2017	23.0
10/23/2017	143	A		10/23/2017	12.4
10/24/2017	143	A		10/24/2017	21.8
10/25/2017	137	A		10/25/2017	20.1
10/26/2017	137	A		10/26/2017	17.8
10/27/2017	130	A		10/27/2017	22.0
10/28/2017	126	A		10/28/2017	10.7
10/29/2017	127	A		10/29/2017	20.0
10/30/2017	126	A		10/30/2017	14.0
10/31/2017	131	A		10/31/2017	14.2
11/1/2017	124	A		11/1/2017	16.6
11/2/2017	123	A		11/2/2017	12.8
11/3/2017	122	A		11/3/2017	17.2
11/4/2017	120	A		11/4/2017	15.1
11/5/2017	123	A		11/5/2017	16.7
11/6/2017	122	A		11/6/2017	18.2
11/7/2017	120	A		11/7/2017	15.7
11/8/2017	122	A		11/8/2017	21.3
11/9/2017	109	A		11/9/2017	20.9
11/10/2017	106	A		11/10/2017	13.7
11/11/2017	112	A		11/11/2017	16.6
11/12/2017	105	A		11/12/2017	21.6
11/13/2017	108	A		11/13/2017	11.8
11/14/2017	110	A		11/14/2017	19.0

11/15/2017	104	A		11/15/2017	20.8
11/16/2017	97.6	A		11/16/2017	11.0
11/17/2017	114	A		11/17/2017	8.4
11/18/2017	111	A		11/18/2017	32.3
11/19/2017	83.5	A		11/19/2017	13.8
11/20/2017	98.5	A		11/20/2017	15.2
11/21/2017	118	A		11/21/2017	19.6
11/22/2017	116	A		11/22/2017	21.6
11/23/2017	115	A		11/23/2017	18.7
11/24/2017	114	A		11/24/2017	19.1
11/25/2017	113	A		11/25/2017	21.6
11/26/2017	107	A		11/26/2017	18.2
11/27/2017	107	A		11/27/2017	17.4
11/28/2017	108	A		11/28/2017	19.1
11/29/2017	102	A		11/29/2017	20.9
11/30/2017	97	A		11/30/2017	21.4
12/1/2017	96.3	A		12/1/2017	15.3
12/2/2017	107	A		12/2/2017	22.2
12/3/2017	98.7	A		12/3/2017	17.5
12/4/2017	103	A:e		12/4/2017	26.8
12/5/2017	80.4	A:e		12/5/2017	26.7
12/6/2017	57.1	A:e		12/6/2017	13.4
12/7/2017	61.1	A:e		12/7/2017	11.2
12/8/2017	66.7	A:e		12/8/2017	4.9
12/9/2017	68.2	A:e		12/9/2017	11.8
12/10/2017	61.9	A:e		12/10/2017	8.6
12/11/2017	62.8	A:e		12/11/2017	7.2
12/12/2017	69.6	A:e		12/12/2017	6.8
12/13/2017	75.5	A:e		12/13/2017	9.1
12/14/2017	79.1	A:e		12/14/2017	8.7
12/15/2017	77.6	A:e		12/15/2017	19.6
12/16/2017	75.6	A:e		12/16/2017	16.3
12/17/2017	73.3	A:e		12/17/2017	11.8
12/18/2017	71.6	A:e		12/18/2017	14.9
12/19/2017	71	A:e		12/19/2017	9.4
12/20/2017	70.8	A:e		12/20/2017	10.0
12/21/2017	70.3	A:e		12/21/2017	3.4
12/22/2017	70.2	A:e		12/22/2017	7.4
12/23/2017	70.7	A:e		12/23/2017	5.1
12/24/2017	72.8	A:e		12/24/2017	13.2
12/25/2017	74.8	A:e		12/25/2017	11.0
12/26/2017	76.9	A:e		12/26/2017	9.1
12/27/2017	79	A:e		12/27/2017	12.0
12/28/2017	81.2	A:e		12/28/2017	10.2
12/29/2017	82.5	A:e		12/29/2017	14.4
12/30/2017	82.4	A:e		12/30/2017	12.7
12/31/2017	79.9	A:e		12/31/2017	9.1

1/1/2018	76.8	A:e		1/1/2018	15.1
1/2/2018	71.7	A:e		1/2/2018	8.1
1/3/2018	63.5	A:e		1/3/2018	13.8
1/4/2018	71.3	A:e		1/4/2018	12.2
1/5/2018	77.6	A:e		1/5/2018	16.0
1/6/2018	81.8	A:e		1/6/2018	14.1
1/7/2018	86.8	A:e		1/7/2018	14.0
1/8/2018	90.1	A:e		1/8/2018	23.8
1/9/2018	93.9	A:e		1/9/2018	18.0
1/10/2018	93.2	A:e		1/10/2018	17.5
1/11/2018	84.1	A:e		1/11/2018	17.4
1/12/2018	83.4	A:e		1/12/2018	16.4
1/13/2018	80.9	A:e		1/13/2018	16.7
1/14/2018	82.8	A:e		1/14/2018	16.0
1/15/2018	76.7	A:e		1/15/2018	15.3
1/16/2018	66.5	A:e		1/16/2018	15.3
1/17/2018	73.3	A:e		1/17/2018	14.7
1/18/2018	86.2	A:e		1/18/2018	15.3
1/19/2018	90.7	A:e		1/19/2018	16.9
1/20/2018	94.8	A:e		1/20/2018	16.6
1/21/2018	86.9	A:e		1/21/2018	16.0
1/22/2018	79.1	A:e		1/22/2018	15.7
1/23/2018	82.5	A:e		1/23/2018	14.9
1/24/2018	76.7	A:e		1/24/2018	15.5
1/25/2018	79.7	A:e		1/25/2018	15.4
1/26/2018	82.9	A:e		1/26/2018	14.7
1/27/2018	75.6	A:e		1/27/2018	15.8
1/28/2018	82.3	A:e		1/28/2018	15.1
1/29/2018	80.7	A:e		1/29/2018	15.9
1/30/2018	84.7	A:e		1/30/2018	16.1
1/31/2018	86.3	A:e		1/31/2018	16.5
2/1/2018	86.7	A:e		2/1/2018	16.5
2/2/2018	87.1	A:e		2/2/2018	16.6
2/3/2018	87.9	A:e		2/3/2018	16.4
2/4/2018	88	A:e		2/4/2018	16.7
2/5/2018	88.6	A:e		2/5/2018	16.4
2/6/2018	88.6	A:e		2/6/2018	16.0
2/7/2018	81.9	A:e		2/7/2018	16.4
2/8/2018	85.2	A:e		2/8/2018	15.6
2/9/2018	84.1	A:e		2/9/2018	15.9
2/10/2018	84.3	A:e		2/10/2018	15.1
2/11/2018	76.6	A:e		2/11/2018	16.6
2/12/2018	87.3	A:e		2/12/2018	15.5
2/13/2018	90.3	A:e		2/13/2018	16.3
2/14/2018	89.5	A:e		2/14/2018	16.5
2/15/2018	89	A:e		2/15/2018	16.0
2/16/2018	83.7	A:e		2/16/2018	16.6

2/17/2018	88.6	A:e		2/17/2018	15.7
2/18/2018	87.9	A:e		2/18/2018	16.4
2/19/2018	90.3	A:e		2/19/2018	15.6
2/20/2018	83.6	A:e		2/20/2018	15.7
2/21/2018	76.9	A:e		2/21/2018	16.7
2/22/2018	91.3	A:e		2/22/2018	15.5
2/23/2018	89.5	A:e		2/23/2018	16.5
2/24/2018	87.2	A:e		2/24/2018	16.3
2/25/2018	85.1	A:e		2/25/2018	16.2
2/26/2018	81.9	A:e		2/26/2018	15.4
2/27/2018	82	A:e		2/27/2018	12.6
2/28/2018	83.3	A:e		2/28/2018	13.5
3/1/2018	77.5	A:e		3/1/2018	9.3
3/2/2018	81.3	A:e		3/2/2018	8.7
3/3/2018	82.1	A:e		3/3/2018	9.0
3/4/2018	84.8	A:e		3/4/2018	9.9
3/5/2018	82.6	A:e		3/5/2018	12.9
3/6/2018	77.4	A:e		3/6/2018	7.6
3/7/2018	73.9	A:e		3/7/2018	6.0
3/8/2018	72.1	A:e		3/8/2018	0.8
3/9/2018	78	A:e		3/9/2018	5.2
3/10/2018	82.3	A:e		3/10/2018	10.8
3/11/2018	79.4	A:e		3/11/2018	11.3
3/12/2018	77.5	A:e		3/12/2018	6.7
3/13/2018	80.4	A:e		3/13/2018	8.4
3/14/2018	83.9	A:e		3/14/2018	8.6
3/15/2018	86.3	A:e		3/15/2018	9.1
3/16/2018	86.7	A:e		3/16/2018	10.3
3/17/2018	83.1	A:e		3/17/2018	11.0
3/18/2018	80.4	A:e		3/18/2018	5.9
3/19/2018	84.1	A:e		3/19/2018	9.3
3/20/2018	81	A:e		3/20/2018	9.9
3/21/2018	79.5	A:e		3/21/2018	9.7
3/22/2018	82.1	A:e		3/22/2018	7.6
3/23/2018	115	A		3/23/2018	13.9
3/24/2018	123	A		3/24/2018	26.9
3/25/2018	113	A		3/25/2018	17.3
3/26/2018	113	A		3/26/2018	16.8
3/27/2018	113	A		3/27/2018	17.2
3/28/2018	111	A		3/28/2018	19.8
3/29/2018	111	A		3/29/2018	22.2
3/30/2018	101	A		3/30/2018	16.0
3/31/2018	112	A		3/31/2018	16.6
4/1/2018	120	A		4/1/2018	14.3
4/2/2018	131	A		4/2/2018	11.2
4/3/2018	150	A		4/3/2018	25.6
4/4/2018	134	A		4/4/2018	22.4

4/5/2018	134	A		4/5/2018	22.9
4/6/2018	149	A		4/6/2018	16.4
4/7/2018	197	A		4/7/2018	9.2
4/8/2018	311	A		4/8/2018	47.1
4/9/2018	237	A		4/9/2018	43.8
4/10/2018	195	A		4/10/2018	25.6
4/11/2018	210	A		4/11/2018	15.8
4/12/2018	242	A		4/12/2018	15.8
4/13/2018	244	A		4/13/2018	31.1
4/14/2018	208	A		4/14/2018	32.1
4/15/2018	193	A		4/15/2018	24.8
4/16/2018	201	A		4/16/2018	14.8
4/17/2018	219	A		4/17/2018	18.8
4/18/2018	195	A		4/18/2018	17.8
4/19/2018	205	A		4/19/2018	20.3
4/20/2018	226	A		4/20/2018	17.0
4/21/2018	228	A		4/21/2018	29.2
4/22/2018	200	A		4/22/2018	15.0
4/23/2018	245	A		4/23/2018	2.8
4/24/2018	313	A		4/24/2018	11.3
4/25/2018	320	A		4/25/2018	12.3
4/26/2018	373	A		4/26/2018	8.2
4/27/2018	437	A		4/27/2018	2.3
4/28/2018	542	A		4/28/2018	8.1
4/29/2018	670	A		4/29/2018	6.1
4/30/2018	792	A		4/30/2018	48.9
5/1/2018	723	A		5/1/2018	58.3
5/2/2018	608	A		5/2/2018	42.5
5/3/2018	580	A		5/3/2018	46.6
5/4/2018	501	A		5/4/2018	26.5
5/5/2018	507	A		5/5/2018	14.4
5/6/2018	588	A		5/6/2018	8.5
5/7/2018	741	A		5/7/2018	8.6
5/8/2018	938	A		5/8/2018	-5.6
5/9/2018	1270	A		5/9/2018	81.0
5/10/2018	1360	A		5/10/2018	67.0
5/11/2018	1670	A		5/11/2018	113.0
5/12/2018	1680	A		5/12/2018	124.0
5/13/2018	1690	A		5/13/2018	138.0
5/14/2018	1530	A		5/14/2018	110.0
5/15/2018	1390	A		5/15/2018	58.0
5/16/2018	1490	A		5/16/2018	49.0
5/17/2018	1730	A		5/17/2018	106.0
5/18/2018	1720	A		5/18/2018	153.0
5/19/2018	1460	A		5/19/2018	106.0
5/20/2018	1290	A		5/20/2018	59.0
5/21/2018	1290	A		5/21/2018	32.0

5/22/2018	1420	A		5/22/2018	60.0
5/23/2018	1490	A		5/23/2018	85.0
5/24/2018	1430	A		5/24/2018	44.0
5/25/2018	1660	A		5/25/2018	55.0
5/26/2018	1880	A		5/26/2018	130.0
5/27/2018	1640	A		5/27/2018	90.0
5/28/2018	1640	A		5/28/2018	107.0
5/29/2018	1390	A		5/29/2018	70.0
5/30/2018	1240	A		5/30/2018	11.0
5/31/2018	1400	A		5/31/2018	8.0
6/1/2018	1600	A		6/1/2018	84.0
6/2/2018	1460	A		6/2/2018	65.0
6/3/2018	1440	A		6/3/2018	62.0
6/4/2018	1470	A		6/4/2018	39.0
6/5/2018	1500	A		6/5/2018	62.0
6/6/2018	1470	A		6/6/2018	71.0
6/7/2018	1360	A		6/7/2018	58.0
6/8/2018	1310	A		6/8/2018	51.0
6/9/2018	1260	A		6/9/2018	49.0
6/10/2018	1200	A		6/10/2018	43.0
6/11/2018	1100	A		6/11/2018	43.0
6/12/2018	989	A		6/12/2018	33.0
6/13/2018	973	A		6/13/2018	31.0
6/14/2018	949	A		6/14/2018	47.0
6/15/2018	870	A		6/15/2018	37.0
6/16/2018	859	A		6/16/2018	43.0
6/17/2018	1010	A		6/17/2018	-4.0
6/18/2018	1230	A		6/18/2018	111.0
6/19/2018	870	A		6/19/2018	82.0
6/20/2018	716	A		6/20/2018	45.0
6/21/2018	645	A		6/21/2018	27.0
6/22/2018	592	A		6/22/2018	17.0
6/23/2018	527	A		6/23/2018	12.9
6/24/2018	488	A		6/24/2018	9.0
6/25/2018	443	A		6/25/2018	13.0
6/26/2018	414	A		6/26/2018	6.5
6/27/2018	394	A		6/27/2018	1.2
6/28/2018	375	A		6/28/2018	-0.7
6/29/2018	360	A		6/29/2018	0.3
6/30/2018	334	A		6/30/2018	1.9
7/1/2018	310	A		7/1/2018	4.1
7/2/2018	295	A		7/2/2018	5.1
7/3/2018	275	A		7/3/2018	4.4
7/4/2018	266	A		7/4/2018	4.3
7/5/2018	254	A		7/5/2018	4.1
7/6/2018	245	A		7/6/2018	3.3
7/7/2018	239	A		7/7/2018	1.1

7/8/2018	246	A		7/8/2018	2.7
7/9/2018	246	A		7/9/2018	3.6
7/10/2018	227	A		7/10/2018	7.1
7/11/2018	216	A		7/11/2018	5.1
7/12/2018	216	A		7/12/2018	11.7
7/13/2018	205	A		7/13/2018	8.5
7/14/2018	195	A		7/14/2018	9.1
7/15/2018	187	A		7/15/2018	10.0
7/16/2018	189	A		7/16/2018	10.4
7/17/2018	177	A		7/17/2018	13.7
7/18/2018	168	A		7/18/2018	12.9
7/19/2018	157	A		7/19/2018	12.3
7/20/2018	148	A		7/20/2018	11.1
7/21/2018	145	A		7/21/2018	10.8
7/22/2018	141	A		7/22/2018	10.0
7/23/2018	139	A		7/23/2018	3.2
7/24/2018	154	A		7/24/2018	19.9
7/25/2018	140	A		7/25/2018	14.6
7/26/2018	140	A		7/26/2018	17.0
7/27/2018	133	A		7/27/2018	16.6
7/28/2018	123	A		7/28/2018	12.3
7/29/2018	124	A		7/29/2018	11.8
7/30/2018	121	A		7/30/2018	13.8
7/31/2018	112	A		7/31/2018	13.2
8/1/2018	105	A		8/1/2018	11.0
8/2/2018	109	A		8/2/2018	11.7
8/3/2018	116	A		8/3/2018	7.8
8/4/2018	150	A		8/4/2018	10.7
8/5/2018	147	A		8/5/2018	15.4
8/6/2018	143	A		8/6/2018	22.4
8/7/2018	123	A		8/7/2018	17.3
8/8/2018	109	A		8/8/2018	14.5
8/9/2018	101	A		8/9/2018	11.6
8/10/2018	95.4	A		8/10/2018	8.7
8/11/2018	95.4	A		8/11/2018	7.7
8/12/2018	92.9	A		8/12/2018	8.2
8/13/2018	90.1	A		8/13/2018	10.1
8/14/2018	84.3	A		8/14/2018	7.9
8/15/2018	83.3	A		8/15/2018	9.3
8/16/2018	82	A		8/16/2018	9.5
8/17/2018	84.2	A		8/17/2018	8.8
8/18/2018	93.3	A		8/18/2018	12.4
8/19/2018	105	A		8/19/2018	15.1
8/20/2018	106	A		8/20/2018	20.8
8/21/2018	99.4	A		8/21/2018	16.9
8/22/2018	133	A		8/22/2018	7.8
8/23/2018	160	A		8/23/2018	21.1

8/24/2018	150	A	8/24/2018	27.8
8/25/2018	129	A	8/25/2018	26.7
8/26/2018	114	A	8/26/2018	22.3
8/27/2018	115	A	8/27/2018	20.0
8/28/2018	115	A	8/28/2018	27.1
8/29/2018	101	A	8/29/2018	17.2
8/30/2018	95.8	A	8/30/2018	17.7
8/31/2018	94.2	A	8/31/2018	18.0
9/1/2018	96.4	A	9/1/2018	17.5
9/2/2018	88.8	A	9/2/2018	12.5
9/3/2018	91.6	A	9/3/2018	15.0
9/4/2018	92.4	A	9/4/2018	18.6
9/5/2018	88.5	A	9/5/2018	15.2
9/6/2018	92.5	A	9/6/2018	15.0
9/7/2018	89.6	A	9/7/2018	13.2
9/8/2018	87.4	A	9/8/2018	14.2
9/9/2018	83.4	A	9/9/2018	13.3
9/10/2018	79.3	A	9/10/2018	9.5
9/11/2018	78.4	A	9/11/2018	11.4
9/12/2018	78.4	A	9/12/2018	13.0
9/13/2018	76.4	A	9/13/2018	12.9
9/14/2018	72	A	9/14/2018	10.9
9/15/2018	69.1	A	9/15/2018	9.9
9/16/2018	67.5	A	9/16/2018	10.1
9/17/2018	66.4	A	9/17/2018	10.7
9/18/2018	65.9	A	9/18/2018	11.6
9/19/2018	65.9	A	9/19/2018	10.4
9/20/2018	73	A	9/20/2018	8.6
9/21/2018	73.4	A	9/21/2018	11.0
9/22/2018	70.9	A	9/22/2018	10.7
9/23/2018	69.9	A	9/23/2018	10.0
9/24/2018	69.9	A	9/24/2018	9.1
9/25/2018	77.9	A	9/25/2018	11.0
9/26/2018	76.7	A	9/26/2018	11.7
9/27/2018	75.8	A	9/27/2018	11.4
9/28/2018	73.9	A	9/28/2018	12.1
9/29/2018	73.2	A	9/29/2018	10.9
9/30/2018	69.8	A	9/30/2018	10.6

o be updated in the near future based on a discussion with them in September 2019.

Streamflows Above Edwards WWTF per LRE Methodology

Ungaged Flow Avon to Edwards (CFS)	Flow Upstream Edwards (CFS)
6.6	119.9
6.9	119.2
6.6	124.2
7.5	128.1
8.2	133.2
9.0	141.7
9.6	138.5
9.3	130.6
8.4	125.4
7.6	123.0
7.7	123.8
7.4	141.6
9.5	129.8
7.4	124.7
8.9	125.9
9.1	124.3
7.7	126.8
8.2	128.1
8.1	123.5
7.8	123.4
6.8	132.3
8.4	135.2
8.0	117.5
6.0	132.0
7.5	135.4
7.6	133.8
8.4	123.5
7.5	123.2
7.3	123.9
7.8	125.2
8.4	123.2
7.0	121.8
7.5	122.2
7.5	134.3
8.2	131.1
9.9	128.8
9.4	102.3
8.4	91.3
6.1	124.7
8.9	123.0
7.9	123.0
8.6	121.8

8.4	119.2
7.4	122.7
9.0	121.6
9.4	88.4
6.6	110.0
7.5	116.4
7.3	115.9
7.8	111.5
7.8	109.4
7.7	106.6
9.5	100.1
8.6	100.7
9.7	91.4
9.1	88.2
8.6	92.8
7.1	105.5
7.6	108.8
7.6	106.8
8.1	109.4
7.1	104.6
6.9	106.3
7.8	108.5
7.7	106.5
8.4	101.3
7.5	104.2
7.5	103.4
8.0	102.7
9.2	98.8
8.5	80.0
8.4	88.2
10.4	96.1
8.4	106.6
9.6	99.5
4.6	72.5
3.2	94.8
5.2	98.6
8.1	102.2
8.7	101.3
8.9	92.7
6.0	92.0
8.6	102.6
10.4	105.1
6.5	94.5
5.6	105.1
8.4	105.5
9.7	94.2
5.8	96.7

8.1	95.4
8.9	94.8
6.9	93.1
7.0	99.9
8.2	97.1
8.3	95.9
6.3	75.9
2.8	65.5
4.7	95.0
8.0	98.6
8.3	98.8
8.7	98.4
7.8	90.3
7.1	95.4
8.2	94.9
7.2	96.2
7.9	97.9
8.5	96.1
7.9	87.0
6.5	84.5
5.8	81.2
5.8	83.7
5.5	82.6
5.8	82.7
6.3	93.9
7.4	102.7
6.7	98.9
7.2	96.2
7.3	94.0
6.7	86.8
6.4	81.7
6.8	92.3
9.2	93.8
9.4	89.1
8.4	92.5
6.9	90.0
5.2	91.4
6.4	85.7
5.2	85.4
6.3	90.2
5.5	88.7
5.5	87.6
5.8	87.6
5.5	85.6
5.5	84.6
5.5	79.6
5.5	88.5

5.1	86.8
5.8	83.5
4.9	80.8
5.7	88.9
5.2	85.4
5.5	83.6
5.1	76.0
5.7	84.8
5.9	80.4
5.2	89.4
6.2	94.2
7.1	92.6
6.7	92.8
7.1	88.5
5.8	72.2
6.2	89.2
6.5	95.5
7.3	100.7
8.0	102.7
8.3	102.7
7.8	99.1
7.7	96.7
7.5	89.4
7.2	91.3
9.0	97.3
5.8	82.6
8.3	95.8
7.8	94.5
6.6	88.0
7.4	91.7
8.0	95.8
7.8	106.3
7.4	121.7
8.2	131.1
8.0	147.7
8.3	159.7
8.7	178.3
8.9	200.8
8.9	174.8
9.4	163.4
9.4	150.1
8.7	133.4
8.7	129.6
8.8	130.0
9.8	135.0
7.4	117.6
8.4	127.2

9.0	118.3
10.0	129.2
11.1	127.0
9.4	111.1
9.2	112.0
10.3	132.4
11.1	171.9
12.9	214.2
13.1	207.7
14.4	226.6
19.1	234.6
15.1	229.1
16.2	256.7
14.5	274.0
19.2	330.2
13.5	276.4
9.0	248.7
5.0	235.2
4.0	270.2
3.5	342.1
7.9	483.1
14.0	582.5
17.5	692.6
29.0	771.2
33.4	762.2
21.8	632.1
15.6	594.6
14.5	663.9
24.1	881.8
29.4	1066.8
31.0	1091.8
33.8	1082.8
36.7	1003.8
32.0	869.6
24.6	876.3
22.8	1217.6
24.3	1533.0
29.4	1506.7
27.6	1492.7
24.0	1393.8
23.8	1714.8
39.8	1933.8
25.2	1870.2
24.0	2014.0
25.4	2159.4
25.0	2421.0
39.8	2763.8

81.1	3233.1
80.9	3123.9
104.9	3077.9
70.6	2796.6
68.6	2832.6
86.9	2934.9
92.9	2895.9
67.9	2724.9
48.2	2517.2
22.8	2387.8
19.2	2439.2
56.2	2732.2
58.3	2725.3
70.8	2905.8
67.7	2775.7
91.2	2941.2
80.2	2866.2
71.3	2794.3
62.9	2720.9
55.7	2483.7
31.0	2152.0
24.5	2062.5
22.6	1958.6
22.8	1897.8
25.7	1748.7
11.3	1674.3
25.9	1857.9
28.3	1820.3
22.3	1769.3
24.0	1864.0
37.4	2021.4
45.4	2066.4
59.0	2223.0
67.7	2275.7
77.3	2285.3
78.7	2260.7
50.6	2159.6
49.9	2671.9
56.4	2791.4
112.6	2613.6
45.6	2445.6
30.5	2143.5
18.5	1991.5
20.6	1914.6
12.5	1820.5
12.5	1970.5
14.2	1825.2

7.4	1736.4
19.4	1618.4
15.8	1389.8
14.2	1295.2
19.7	1117.7
21.4	1022.4
14.2	975.2
15.1	1042.1
13.9	931.9
15.6	872.6
14.9	800.9
14.2	703.2
12.5	656.5
11.8	620.8
11.3	598.3
11.8	563.5
11.8	538.6
9.3	505.7
7.0	469.8
6.5	451.6
5.3	433.1
4.6	444.5
8.0	487.8
7.0	453.9
3.4	440.2
5.8	578.6
10.6	539.4
7.9	537.1
7.1	451.7
3.2	410.0
3.0	375.5
2.5	341.9
0.5	330.5
1.6	352.1
1.5	315.2
1.2	287.0
1.4	270.7
0.5	255.4
0.6	240.9
0.0	232.9
-1.1	237.5
-3.8	297.9
2.3	291.6
2.0	248.5
0.4	224.9
1.2	212.4
1.0	195.9

1.2	188.0
1.3	179.0
1.1	172.6
0.8	180.6
1.2	186.2
2.0	176.6
1.9	167.8
1.9	155.1
1.6	149.1
1.9	143.8
1.6	148.1
2.0	140.7
2.4	131.4
2.3	127.8
2.6	123.7
2.5	127.2
3.0	125.3
3.4	130.2
4.0	125.5
3.3	120.4
2.7	119.6
2.9	117.9
2.7	117.3
1.9	128.0
3.8	137.0
2.6	141.7
5.2	147.5
4.9	131.3
3.3	121.6
4.0	119.2
3.3	117.4
2.4	162.6
5.4	170.0
5.9	149.4
4.7	143.0
4.5	141.6
4.4	143.0
3.9	135.8
3.8	131.9
4.0	125.2
2.9	122.9
3.8	135.0
5.1	126.8
3.0	127.5
4.6	129.5
3.0	145.5
6.4	144.6

5.2	138.4
5.1	143.7
6.0	138.0
5.7	134.1
5.6	130.3
4.3	128.3
3.4	132.2
3.2	136.7
5.6	156.4
7.2	143.0
5.3	136.1
4.7	137.0
5.0	140.3
5.4	146.0
5.3	151.3
7.0	141.7
5.9	140.2
5.6	140.3
5.8	145.6
8.4	116.5
2.4	139.5
6.0	138.1
7.0	111.7
3.7	116.1
3.6	132.6
5.2	129.7
4.8	129.0
4.7	124.0
4.7	121.3
4.4	122.2
4.4	126.2
4.2	124.6
4.7	121.1
4.3	119.4
4.1	113.2
3.7	111.3
3.5	116.0
3.4	118.4
4.7	117.2
4.5	110.8
8.6	85.7
3.3	90.5
5.3	105.3
6.6	100.2
5.9	86.2
4.9	90.5
4.4	101.2

4.7	99.3
5.0	79.1
4.9	83.8
5.6	90.4
5.9	89.3
5.7	89.8
5.1	89.7
5.5	81.3
5.5	87.6
5.6	75.9
5.6	55.6
5.4	54.1
4.0	62.2
2.9	69.0
2.9	73.8
3.9	70.6
3.6	69.8
3.6	71.4
3.6	71.3
3.2	76.4
3.4	80.0
3.1	81.0
3.2	80.2
3.3	80.0
3.0	85.4
3.1	84.9
3.5	73.9
3.4	81.8
3.6	76.7
3.6	75.3
3.4	78.6
3.2	75.6
3.3	71.8
3.3	73.8
3.6	74.7
3.5	67.8
2.9	76.8
2.8	79.0
2.9	78.9
2.6	83.2
2.6	83.3
3.0	77.9
2.9	74.8
2.9	74.5
2.3	81.4
2.4	76.8
3.9	59.6

3.3	72.0
2.4	82.0
2.4	80.6
2.5	77.6
2.4	78.7
3.2	73.8
2.3	71.4
2.2	73.3
2.3	80.1
2.5	78.4
2.7	76.3
2.7	76.3
2.7	77.6
2.6	80.9
2.6	79.3
2.6	78.9
2.7	76.8
2.7	75.6
2.5	80.8
2.6	80.2
2.5	80.2
2.5	75.8
2.5	79.0
2.6	79.5
3.0	72.1
3.0	77.5
3.0	80.1
3.1	75.6
2.9	76.3
3.0	75.7
3.0	75.7
3.3	70.7
3.3	74.6
3.2	77.3
3.3	74.5
3.3	74.8
3.5	73.8
3.6	67.2
3.2	75.6
3.2	72.7
3.2	72.3
3.3	72.8
3.2	73.6
3.2	73.2
3.3	72.4
3.6	64.6
4.2	74.2

4.4	81.2
3.8	69.7
3.8	67.6
4.0	72.4
4.1	71.2
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4.1	72.9
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4.4	73.5
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5.1	72.5
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4.5	72.4
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4.2	82.3
4.8	98.7
6.9	107.2
6.7	90.9
6.1	85.5
6.2	85.3
5.9	85.4
7.9	93.0
6.6	86.3
6.2	89.4
6.1	104.7
6.0	126.0
4.7	146.2
4.6	195.5

7.4	250.7
6.4	219.6
4.1	271.9
2.2	345.1
8.3	438.9
8.9	391.7
7.9	438.1
8.3	502.6
7.8	591.4
17.3	761.2
23.2	640.6
18.8	500.6
15.1	429.3
13.1	388.4
11.5	367.7
10.8	412.7
14.5	448.2
15.1	383.1
16.7	353.1
16.5	330.8
14.1	307.4
13.2	330.2
13.6	370.9
14.1	424.4
17.9	398.4
16.4	389.9
14.4	408.2
16.8	537.0
18.4	526.7
20.7	549.3
18.7	523.9
16.1	523.0
22.3	588.5
20.2	556.1
17.9	601.5
17.8	769.8
25.2	960.1
26.7	925.4
24.3	1103.0
35.0	1459.0
32.4	1687.4
65.0	1974.0
55.2	1395.2
44.5	1369.1
19.0	1800.0
10.3	2807.3
106.6	3592.6

111.8	3435.8
91.9	3118.9
92.6	3116.6
89.0	2808.0
48.0	2398.0
25.2	2760.2
65.3	4263.3
179.8	5150.8
221.3	4979.3
221.3	4559.3
176.9	4069.9
197.0	3836.0
129.8	3058.8
101.8	2697.8
110.6	2559.6
78.5	2141.5
60.2	1819.2
42.0	1787.0
62.9	1780.9
52.1	1825.1
51.6	1876.6
43.9	1850.9
50.9	1698.9
37.0	1593.0
32.2	1468.2
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-4.3	1163.7
-4.3	1123.7
-8.9	1058.1
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-6.5	1011.5
-9.8	939.2
-14.4	864.6
-14.2	804.8
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3.8	540.8
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9.4	523.1
8.1	470.5
7.4	445.4
7.2	423.1

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9.4	355.4
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7.4	281.5
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12.7	530.8
11.8	433.6
14.9	418.9
11.4	410.7
13.0	358.0
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11.3	306.4
10.2	281.5
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8.1	254.4
9.3	252.5
9.1	221.0
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8.0	222.7
9.5	194.1
4.7	200.3
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12.2	235.2
8.6	202.6
8.0	188.6
7.3	177.8
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4.7	113.1
4.3	113.2
5.7	106.9
4.4	103.0
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6.3	114.0
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6.1	105.6
5.7	97.9
4.8	94.9
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4.3	88.2
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4.6	84.1
5.6	84.1
5.2	84.7
5.4	97.1
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6.0	98.8
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6.4	97.7
5.7	105.1
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7.1	142.6
7.8	141.1
7.0	151.8
8.4	141.5
8.2	128.2
7.2	132.1
7.0	132.0
7.9	133.8
6.8	139.6
7.0	143.0
7.7	133.8
6.9	140.0
9.6	118.8
6.6	112.0
8.3	105.9
5.4	99.7
7.5	106.2
6.9	108.2
6.9	108.0
7.8	107.4
7.7	106.5
8.4	110.5
7.5	107.2
8.0	112.5
8.0	105.5
9.5	95.1
8.6	102.8
8.1	77.3
5.0	77.1
5.9	94.5
6.4	93.9
6.3	97.2
6.5	90.4
8.9	95.7
9.3	103.6
8.7	104.3

8.2	106.1
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7.6	74.3
5.7	92.9
4.6	98.4
5.1	108.9
6.6	111.3
5.9	110.5
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6.5	105.3
6.5	82.6
5.8	86.8
5.2	106.6
6.2	85.4
5.9	86.4
5.6	96.4
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7.1	70.5
6.2	80.1
6.0	98.2
6.2	98.5
6.5	102.4
6.4	99.8
5.9	94.2
6.1	98.7
6.0	101.8
6.0	85.2
5.9	74.2
6.0	87.1
6.2	101.5
6.4	98.7
6.0	95.2
6.1	94.5
5.8	98.7
6.2	97.2
6.0	96.0

6.2	83.5
6.3	93.0
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6.0	89.8
6.8	79.3
6.5	94.4
6.3	87.1
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6.1	86.7
6.6	86.0
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8.1	79.4
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7.0	84.7
7.4	79.5
8.0	74.5
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6.6	86.9
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6.8	89.4
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6.7	90.6
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6.7	85.9
6.7	85.9
6.9	85.3
6.9	88.1
7.0	85.7
7.4	89.5
8.5	97.2
8.4	95.3
7.9	85.0
8.7	96.4
9.2	94.7

8.2	92.0
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7.4	89.7
10.4	100.1
10.7	105.1
10.9	111.5
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9.5	137.8
9.7	133.4
8.2	136.9
8.7	137.4
8.0	142.5
9.3	157.5
8.2	139.1
7.5	134.3
7.6	129.0
8.1	128.4
8.5	127.9
9.6	130.4
7.8	121.1
8.3	123.8
8.5	124.1
8.8	131.1
8.2	157.2
12.6	211.1
11.4	181.8
11.0	179.0
15.1	193.2
13.9	189.0
13.0	204.8
12.3	236.1
15.7	238.2
13.7	210.8
13.0	217.9
12.7	235.6
16.8	264.7
14.9	232.0
15.4	224.4
14.8	216.1
13.8	246.2
16.7	365.0
20.5	287.0
26.3	352.6
27.3	359.5
25.4	341.4

24.4	322.7
26.0	325.7
26.9	311.0
23.8	282.5
20.4	259.6
22.1	291.2
22.2	275.7
20.9	254.0
19.0	239.9
17.6	231.2
18.0	244.2
16.4	263.0
19.0	336.8
27.9	471.8
37.2	700.0
43.3	942.8
43.9	901.0
51.1	908.3
47.0	740.0
37.5	649.4
40.8	757.7
41.6	918.2
38.4	1268.4
54.4	1507.9
53.8	1309.7
53.1	1141.8
57.0	939.4
62.9	830.7
64.1	769.2
71.9	852.4
74.4	924.5
75.8	859.8
73.0	908.8
65.1	1253.7
66.5	1459.6
64.1	2077.1
75.6	2600.6
62.2	2003.2
66.7	2108.7
57.6	2587.6
67.4	3266.4
46.3	3193.3
38.4	3708.4
55.9	4362.9
126.5	4909.5
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137.3	4035.3
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110.6	3969.6
106.8	3971.8
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71.3	3944.3
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87.4	4013.4
104.9	3547.9
126.2	3380.2
121.4	2745.4
102.0	2827.0
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122.4	4282.4
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31.0	4222.0
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-87.4	4946.6
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18.7	1620.7
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23.0	1267.0
18.5	1171.5
13.7	1136.7
16.6	1077.6

25.0	1001.0
26.2	927.2
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24.0	815.0
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23.8	840.8
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24.7	785.7
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9.6	388.7
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9.6	323.7
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9.0	284.3
11.0	328.3
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11.2	326.7
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9.0	266.4
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13.3	172.0
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11.3	160.2
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10.3	193.2
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8.4	164.4
8.2	159.2
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8.0	160.5
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6.8	151.5
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8.6	159.6
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8.2	124.9
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7.9	134.8
7.8	115.3
7.8	109.2
7.2	114.3
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6.8	119.3
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9.9	92.7

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12.0	96.1
11.8	94.8
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9.6	82.7
9.4	82.2
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9.1	81.0
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7.2	78.1
7.2	76.7
6.9	74.0
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6.3	90.9
5.9	94.4
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4.8	105.6
3.1	123.0
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5.4	99.1
4.6	100.6
3.6	117.7
2.5	146.9
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5.0	220.1
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9.9	269.6
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8.4	253.4
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10.0	274.4
6.3	281.0
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5.1	418.0
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11.0	597.0
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22.4	575.0
21.1	464.1
19.0	421.0
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16.2	465.9

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24.3	647.1
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13.1	664.7
14.3	739.6
21.4	668.2
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2.2	815.2
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5.2	733.5
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1.6	847.0
2.9	680.0
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-3.8	853.2
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-0.5	839.5
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-1.0	734.0
-1.7	695.3
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-3.6	454.6
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-5.2	426.5
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-6.2	316.5
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-4.4	291.1
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-4.3	242.5
-4.4	223.1
-3.9	212.5
-3.8	203.2
-5.1	203.2
-1.9	217.1
-2.9	266.3
-5.3	391.8
4.3	366.3
0.9	276.3
-0.5	226.5
-0.9	191.7
0.2	170.5
1.8	155.2
2.1	147.2
1.1	184.4
3.5	183.9
1.2	254.1
5.2	196.7
3.0	173.6
3.3	163.7
1.4	169.6
3.0	177.7
3.4	182.1
4.6	210.5
8.3	264.6
7.5	211.2
3.9	177.8
3.3	222.7
4.7	207.0
4.1	204.1
5.3	188.4
4.4	168.2
4.5	155.6
4.9	139.4
5.4	125.0
5.2	111.5

4.6	106.3
0.1	153.8
7.2	138.3
5.7	113.8
4.9	105.5
3.8	110.8
5.2	113.6
0.4	136.7
5.0	280.0
9.6	192.5
8.2	156.1
7.1	133.5
5.7	124.0
5.6	113.4
4.9	109.3
5.8	109.8
4.8	102.0
3.9	117.7
0.4	172.7
6.1	160.6
4.9	133.6
4.7	120.2
3.6	121.5
3.6	117.6
4.9	111.5
3.0	118.4
6.0	114.2
5.0	106.3
5.1	105.0
5.3	96.1
4.3	87.2
4.0	83.4
3.3	87.4
5.0	96.3
5.0	87.1
5.0	85.0
4.2	84.2
5.0	117.1
6.4	122.9
5.5	103.6
5.1	94.8
4.4	85.6
4.7	86.3
5.3	92.3
4.6	83.1
4.2	80.2
3.8	76.3

3.8	74.9
3.5	72.7
3.6	73.7
5.0	87.3
6.6	116.2
7.0	118.8
5.8	107.6
5.4	99.8
4.7	93.3
4.6	89.5
4.7	88.1
4.0	84.1
4.0	81.5
3.8	78.5
3.5	77.2
4.0	73.7
4.1	76.4
4.2	75.3
3.4	73.9
4.0	74.1
3.6	80.4
2.7	111.4
4.0	110.5
3.2	107.9
3.6	102.4
2.9	111.9
4.8	99.7
4.2	93.8
4.3	93.2
4.6	91.6
3.4	94.3
3.0	93.5
3.1	92.2
4.0	92.5
4.4	82.6
3.1	81.6
3.0	87.5
2.7	89.8
2.4	94.4
3.0	92.6
2.5	92.2
2.6	93.7
3.6	88.5
3.4	83.9
2.9	87.5
3.9	86.0
4.0	81.8

4.1	80.4
4.7	77.6
4.8	79.5
7.1	63.8
3.4	54.2
2.7	64.5
3.5	68.1
3.4	70.1
3.2	67.0
3.8	72.5
3.9	71.9
3.7	70.2
3.5	71.6
3.6	69.3
4.6	65.2
3.5	62.5
3.0	58.0
3.0	57.5
3.6	60.2
2.6	47.1
2.7	49.6
3.3	56.1
3.5	57.1
4.1	62.2
3.9	58.7
4.4	64.4
2.8	48.9
3.4	54.2
3.8	62.6
4.6	57.0
4.6	53.9
2.9	44.9
2.1	33.7
3.3	50.4
3.1	49.4
3.9	57.6
3.8	55.7
4.2	59.8
4.4	61.3
4.0	57.2
3.7	55.8
3.6	52.7
2.0	31.8
3.0	47.6
3.2	50.5
3.3	52.3
3.4	53.5

3.4	53.2
3.4	52.1
3.8	54.5
3.3	50.1
2.7	43.6
3.1	47.0
3.5	49.7
3.7	50.8
3.5	48.8
2.7	41.5
3.2	45.0
3.5	46.2
3.6	47.1
4.1	50.9
3.8	48.5
3.8	48.1
4.2	52.0
4.4	53.7
4.2	50.7
3.9	48.0
4.1	48.7
4.0	48.6
4.6	52.3
4.4	52.1
4.3	51.5
4.5	53.3
4.4	52.7
4.3	51.2
4.4	51.9
4.3	51.8
4.3	51.8
4.5	54.4
4.5	55.2
4.6	56.6
4.5	54.8
4.4	53.4
4.0	48.9
4.7	57.2
4.5	54.7
4.4	53.6
4.3	53.2
4.4	53.3
4.5	54.2
4.5	55.0
4.5	54.9
4.7	52.6
5.0	55.9

4.6	52.4
4.3	50.9
4.3	48.8
4.8	52.5
4.8	53.1
4.8	52.3
4.9	54.3
5.3	58.1
5.1	55.7
4.4	48.3
4.7	53.1
4.6	52.5
4.5	52.7
4.2	52.2
4.4	54.4
4.2	51.7
4.2	52.4
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4.4	51.4
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5.3	60.7
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4.9	58.1
6.3	63.9
6.4	68.6
6.0	72.6
6.0	68.4
5.3	61.2
4.9	59.8
5.0	55.5
4.4	61.9
5.1	57.7
5.1	58.5
4.6	52.4
4.4	51.5
5.0	59.2
5.3	64.9
5.5	63.9

5.0	66.7
4.6	71.4
4.5	75.4
4.4	81.1
4.4	82.6
5.0	81.4
4.1	90.1
3.4	104.3
3.7	118.2
4.5	117.7
5.3	107.1
4.7	112.1
6.2	94.2
5.5	90.7
5.5	90.5
5.7	87.1
6.2	108.5
7.2	102.1
6.8	98.3
7.9	112.9
7.5	94.2
6.7	90.7
7.7	101.5
8.0	103.6
7.3	118.8
8.9	125.0
8.0	103.8
7.2	108.3
5.4	124.9
4.1	154.9
3.0	213.7
2.4	320.3
13.7	422.6
20.6	443.8
14.6	348.8
11.9	310.5
10.8	324.6
11.5	335.6
12.0	357.9
15.6	402.5
20.7	437.3
21.3	411.7
18.4	387.7
17.5	405.4
21.1	486.3
18.2	692.2
22.4	1099.2

37.4	1431.4
35.5	1547.5
30.2	1794.2
43.2	1923.2
54.7	1556.7
46.8	1181.8
37.9	949.9
33.0	842.6
21.6	1041.7
26.6	1555.6
33.6	1903.6
31.9	2088.9
32.2	2308.2
45.1	2137.1
49.0	1785.0
49.4	1373.4
40.0	1103.4
30.3	974.2
17.0	1166.0
21.4	1742.4
29.8	2065.8
13.9	2315.9
20.2	2596.2
28.1	2441.1
13.4	2447.4
9.8	2698.8
14.9	2932.9
12.5	2930.5
29.0	2748.0
29.3	2517.3
36.7	2343.7
47.3	2160.3
49.2	1794.2
43.0	1554.0
37.4	1461.4
37.7	1430.7
39.1	1346.1
37.2	1232.2
33.8	1152.8
29.3	1037.3
28.1	941.1
21.4	850.4
19.4	844.4
18.7	831.7
17.3	787.3
17.0	735.0
17.8	693.8

16.1	646.1
14.2	596.2
12.4	546.7
11.8	522.7
9.8	485.1
9.1	505.0
9.9	468.7
7.1	503.6
10.5	457.6
7.5	397.4
5.3	361.4
4.2	358.7
5.3	372.2
4.8	379.6
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4.9	368.4
3.1	331.2
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10.3	532.3
8.9	384.8
5.1	322.8
4.9	290.3
6.6	245.1
5.2	217.5
4.1	221.0
3.8	221.8
5.6	203.1
2.4	232.6
3.2	288.9
7.4	267.7
5.4	223.1
5.0	197.0
5.6	187.3
4.4	177.9
5.5	179.5
4.0	197.4
3.9	202.6
6.2	199.4
5.6	190.4
5.9	178.4
5.5	174.5
5.5	155.4
5.0	144.0
4.3	142.2
4.9	147.4
6.2	136.5
5.4	122.0

4.7	114.0
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4.7	116.3
5.6	107.1
6.0	106.1
4.8	107.0
1.6	166.9
7.8	182.2
7.4	153.5
6.3	143.2
5.5	149.4
6.7	135.6
4.4	146.2
4.9	168.6
0.8	243.3
7.1	238.6
8.2	200.0
8.1	164.4
6.4	142.8
5.4	147.9
6.8	141.5
6.6	151.3
7.3	160.8
10.4	169.0
9.2	183.9
12.0	173.1
9.9	171.7
0.8	320.5
10.8	333.6
6.9	276.3
6.6	295.1
7.6	248.8
6.6	229.3
2.6	303.7
8.4	280.5
7.6	232.8
5.5	222.5
3.5	384.9
8.4	346.5
5.5	328.6
6.4	296.6
5.0	278.2
6.5	287.5
6.0	280.8
6.5	261.6
6.1	253.6
7.0	237.0

6.9	222.2
7.2	227.4
7.3	224.7
7.7	218.7
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7.2	225.2
7.8	212.1
8.6	201.9
8.8	200.1
8.9	196.7
8.9	192.7
8.3	207.7
9.0	205.5
9.0	197.3
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8.9	171.9
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8.3	167.8
7.5	165.4
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8.0	165.6
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7.7	166.5
8.2	160.2
9.0	161.5
9.3	150.7
8.6	149.7
8.1	134.4
7.1	150.6
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10.6	148.6
8.6	145.8
8.4	135.2
8.6	129.9
8.0	124.8
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8.2	121.2
8.4	130.6
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7.3	125.8
7.7	121.8
7.2	114.2

6.4	113.9
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7.5	129.4
8.2	120.1
6.9	121.0
7.2	120.4
7.8	119.1
7.6	109.0
8.8	94.1
7.7	103.8
8.6	100.8
8.7	92.5
7.4	94.7
7.2	110.1
7.0	110.0
6.0	102.2
8.0	62.8
5.6	71.1
4.4	85.7
3.8	94.8
4.0	87.2
4.4	81.8
3.8	91.0
4.1	86.3
3.3	88.4
2.9	94.8
2.9	98.0
3.0	99.7
2.9	99.7
3.1	102.0
2.8	101.0
3.1	92.1
3.1	87.5
3.1	86.1
3.1	87.7
3.1	87.7
3.4	81.1
3.3	79.0
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3.4	87.9
3.3	90.5
3.3	84.8
3.2	84.0
3.3	89.5
3.6	80.9
3.3	86.6
3.1	89.8

3.8	77.6
3.8	72.5
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3.1	93.2
3.2	88.0
3.4	83.2
3.2	84.5
3.1	85.9
3.2	83.5
3.2	87.4
3.2	84.3
3.2	82.3
3.2	81.6
3.3	81.1
3.3	81.6
3.2	81.5
3.5	76.0
3.6	73.4
3.1	81.1
4.1	70.9
3.4	79.6
3.5	79.5
3.4	80.1
3.8	74.0
3.7	75.0
3.5	80.7
3.3	80.6
3.3	80.5
3.5	78.4
3.3	83.1
3.4	86.5
3.6	80.4
3.6	81.6
3.6	82.1
3.6	82.4
3.4	84.8
3.2	87.0
3.4	82.4
3.1	85.5
3.1	85.8
3.1	86.5
3.1	85.1
3.0	86.0
3.2	83.2
2.8	83.8
-0.4	81.8
2.6	76.0

1.7	81.7
2.7	83.7
1.8	81.0
1.7	80.3
1.6	84.6
1.8	87.4
2.6	86.4
2.9	87.4
3.7	92.3
4.7	92.3
4.7	88.3
4.1	86.2
4.5	89.6
4.1	86.5
4.1	92.2
4.1	88.1
4.1	85.7
4.0	92.3
4.6	98.6
4.0	87.2
3.4	89.1
5.3	95.2
4.8	95.9
4.0	93.3
5.2	95.5
4.9	96.5
4.7	93.0
5.3	92.4
5.1	98.0
4.7	109.0
3.8	105.8
6.9	112.0
5.5	108.5
5.7	119.8
7.0	124.0
7.1	118.7
6.3	109.1
7.1	117.6
7.4	116.5
7.4	116.7
7.6	115.9
7.6	115.9
7.4	108.5
7.6	114.9
9.5	117.1
8.9	120.0
8.9	124.8

7.0	165.7
8.1	246.5
8.4	340.2
19.4	438.7
27.0	457.5
20.0	352.8
15.1	306.0
14.7	303.3
12.4	306.6
14.7	374.6
26.3	489.9
32.9	597.8
37.2	724.0
49.4	903.7
53.9	949.4
51.1	858.3
50.2	891.1
49.5	1013.1
53.1	991.8
51.4	767.2
47.3	617.1
42.0	530.1
36.5	466.5
34.1	446.2
35.2	502.7
39.0	745.4
44.8	1088.1
53.3	1281.1
56.4	1381.3
60.7	1317.7
52.6	1073.3
50.3	910.8
55.7	883.5
47.4	761.0
39.4	663.4
36.5	618.5
34.2	588.6
33.0	584.5
30.6	610.0
30.2	776.5
31.4	1070.7
43.9	1460.9
58.1	1776.1
58.8	1943.8
52.1	2165.1
48.7	2575.7
61.7	2594.7

67.0	2248.0
41.8	2627.8
1.0	3327.0
-14.9	4067.1
-7.2	4702.8
7.4	4476.4
19.4	4508.4
43.9	4350.9
25.0	4251.0
19.0	4350.0
37.9	4139.9
21.4	3762.4
18.5	3521.5
48.0	3408.0
60.7	2707.7
55.4	2444.4
41.0	2530.0
29.8	2735.8
22.8	2917.8
40.6	3081.6
56.4	2451.4
49.9	2151.9
39.8	2233.8
40.3	2302.3
43.9	2050.9
37.2	2092.2
40.3	2122.3
38.9	1866.9
42.7	1824.7
39.4	1735.4
34.8	1749.8
33.1	1785.1
37.0	1733.0
31.0	1572.0
28.8	1558.8
32.2	1628.2
36.0	1546.0
32.2	1348.2
29.0	1258.0
26.2	1187.2
28.6	1109.6
23.3	1026.3
24.7	961.7
25.2	930.2
24.2	866.2
19.4	819.4
24.0	934.0

36.7	943.7
34.3	795.3
31.7	696.7
26.6	656.6
30.5	683.5
31.0	651.0
24.5	561.3
20.5	500.9
18.0	464.8
16.5	448.8
14.1	420.5
12.7	400.7
13.1	410.5
12.6	393.1
10.9	383.4
15.0	392.4
10.8	348.9
11.2	397.6
13.1	416.7
18.4	476.7
16.3	421.4
14.9	396.7
13.4	337.7
9.7	320.4
10.1	357.0
10.2	358.7
12.0	327.8
9.6	294.4
8.8	270.0
8.6	258.6
8.0	250.7
8.0	233.6
8.1	219.5
7.0	231.9
8.2	240.0
8.4	227.5
6.9	204.1
6.4	189.7
6.6	182.1
6.7	195.7
9.0	200.4
7.9	189.0
7.6	200.1
8.0	216.7
8.6	192.7
8.6	181.9
3.4	236.1

7.1	306.4
11.6	325.1
11.0	266.3
8.9	238.9
9.6	221.5
9.0	193.7
7.7	175.7
7.0	165.0
5.3	174.4
6.7	171.8
5.7	158.8
5.8	157.7
-2.1	243.7
13.0	595.0
17.9	403.4
10.6	296.5
9.3	247.5
8.5	221.1
7.6	205.1
7.7	187.7
7.0	171.8
6.6	161.2
6.2	154.2
6.5	147.4
5.3	147.4
4.2	197.9
8.1	219.4
8.3	184.6
7.1	168.4
7.0	158.7
5.8	155.6
6.5	159.5
5.2	191.7
8.3	237.8
8.9	247.0
9.4	245.2
8.4	227.3
7.7	214.5
7.0	217.7
6.7	218.6
6.5	217.5
6.7	211.8
6.3	204.0
6.0	215.1
6.0	215.1
5.2	223.4
7.2	232.3

7.1	214.5
5.4	229.7
6.5	230.3
6.8	228.6
7.6	217.8
6.7	211.6
6.3	206.9
6.2	201.3
4.6	226.3
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6.1	196.7
6.0	188.1
7.2	170.2
6.0	165.1
5.4	167.7
5.4	161.0
5.0	161.1
5.7	159.8
6.5	161.3
6.6	147.2
4.8	139.0
5.3	146.3
4.6	148.5
5.9	145.3
5.0	135.0
4.5	141.8
6.8	121.6
6.2	127.3
6.9	111.2
5.0	139.3
5.6	149.3
8.0	117.7
8.0	114.8
7.5	111.3
6.5	128.4
6.5	130.4
6.8	134.5
7.1	123.7
6.7	127.9
7.2	121.2
6.9	125.0
6.3	128.9
6.0	130.0
5.6	128.2
6.1	121.6

5.4	119.8
5.5	116.6
5.3	110.1
5.5	111.7
6.0	114.0
5.5	114.6
6.1	114.6
6.1	115.6
6.5	100.5
8.1	95.5
8.1	100.4
8.1	102.3
6.6	105.2
5.6	118.2
7.0	114.9
6.9	104.0
7.8	84.4
5.3	115.2
5.5	112.6
6.1	106.7
6.6	94.9
5.5	108.4
6.1	99.6
5.9	99.3
5.6	86.2
5.6	113.1
7.2	104.0
5.7	98.9
5.9	80.2
7.1	99.4
6.2	98.2
5.4	84.8
6.0	84.8
5.8	90.8
5.9	91.5
6.5	95.3
5.9	105.4
6.7	110.8
6.7	105.6
7.0	104.9
6.8	100.3
6.6	100.9
6.7	105.6
6.3	102.2
6.3	97.2
6.5	89.6
5.6	76.3

5.4	91.7
5.8	103.7
6.1	92.5
6.1	99.8
6.3	98.1
5.6	92.2
6.5	77.1
5.9	86.2
5.1	97.8
5.3	109.4
5.5	98.4
5.4	99.0
4.8	98.8
4.5	98.6
4.6	98.4
4.7	101.2
5.1	95.9
4.0	96.4
4.5	99.8
4.5	101.8
4.4	101.9
4.5	100.8
3.9	102.6
4.7	106.3
4.2	102.7
4.5	108.8
4.4	104.2
4.0	98.2
3.4	102.2
3.9	103.7
4.3	107.3
4.0	104.2
5.2	94.7
3.5	100.1
5.0	101.1
5.1	102.8
5.0	101.1
5.3	95.2
4.6	91.6
4.1	98.1
4.9	101.4
4.6	97.3
4.9	99.4
4.3	96.3
4.3	104.2
4.2	106.8
5.6	104.4

4.7	97.1
3.3	88.0
4.3	102.4
5.3	103.3
4.4	106.1
4.6	106.3
4.5	105.6
4.4	107.2
4.9	109.6
4.8	109.7
4.8	110.6
4.4	120.2
2.8	142.3
0.3	178.1
1.0	226.0
3.7	238.4
3.0	213.3
2.4	220.6
2.4	229.6
2.7	243.6
2.7	247.5
4.2	233.6
1.7	204.7
3.8	214.0
0.9	237.2
-0.9	297.0
-0.2	334.6
0.1	366.5
3.2	404.0
6.1	378.7
5.0	333.0
3.2	298.0
4.4	297.1
1.9	309.8
1.8	336.2
2.8	356.2
3.9	349.7
3.3	331.4
3.2	323.8
3.4	332.1
2.5	326.0
0.8	368.5
4.3	430.5
6.8	418.6
7.5	398.3
6.0	363.2
7.2	337.4

4.8	317.8
4.7	303.1
3.6	308.8
2.9	320.0
2.6	332.8
3.9	321.5
4.7	336.2
6.1	326.7
3.9	328.5
1.6	379.8
4.2	495.8
8.9	609.8
14.3	671.6
16.7	699.1
21.1	735.0
24.5	771.3
34.6	1080.6
42.7	1044.7
36.8	943.5
39.9	933.8
43.2	893.2
37.5	807.1
36.9	786.3
35.4	798.7
35.4	801.7
35.3	819.3
35.2	771.5
33.3	745.6
31.9	712.9
31.9	823.9
39.6	812.6
35.3	774.1
43.1	826.4
43.4	882.5
42.9	874.0
41.7	852.0
40.8	859.8
38.7	917.3
38.9	1067.0
45.0	1167.7
40.5	1151.9
33.8	1432.8
36.2	1925.2
36.7	2343.7
37.9	2729.9
51.4	2737.4
62.6	2791.6

61.2	2806.2
76.1	2629.1
79.4	2558.4
80.2	2746.2
81.8	2960.8
56.6	3280.6
94.8	3789.8
66.0	3371.0
59.0	3313.0
57.4	3028.4
34.8	3119.8
7.0	3988.0
54.2	3628.2
37.0	3213.0
24.7	3141.7
28.6	2959.6
36.7	2713.7
34.6	2470.6
33.6	2273.6
39.6	2044.6
50.2	1891.2
47.5	1759.5
44.9	1597.9
39.8	1483.8
39.6	1424.6
39.1	1366.1
34.3	1371.3
32.6	1256.6
31.7	1139.7
30.0	1085.0
29.5	1086.5
29.8	995.8
28.8	1168.8
41.0	1150.0
31.2	931.2
29.8	842.8
27.8	753.8
19.2	739.2
23.0	763.0
25.2	874.2
25.2	696.2
22.2	616.6
17.7	574.0
19.9	602.8
16.7	547.1
13.7	749.7
25.9	724.9

21.0	591.5
14.6	519.6
14.1	529.5
13.6	468.0
12.2	424.2
9.8	395.9
8.6	353.6
8.5	324.1
7.3	305.0
6.8	295.5
3.6	295.6
6.6	318.3
6.6	289.0
6.2	260.5
5.2	243.4
4.4	229.1
4.7	227.3
5.1	214.0
5.2	203.4
2.9	203.8
4.5	255.6
5.5	223.6
5.2	214.6
4.4	214.0
3.7	234.3
6.2	213.3
5.9	197.5
5.1	176.9
4.6	164.6
4.2	152.6
4.4	146.1
4.2	140.5
5.1	134.8
5.9	125.3
5.3	121.3
5.5	138.4
8.5	158.9
8.4	143.2
7.6	133.8
5.6	140.3
7.3	150.7
7.3	140.0
5.6	151.4
7.1	187.6
6.2	243.5
10.2	199.8
8.2	189.1

9.4	199.3
9.0	165.4
8.4	147.4
7.6	136.0
7.7	128.7
7.1	122.6
6.6	120.1
7.0	128.9
9.0	141.7
9.2	128.8
7.7	119.6
7.0	116.7
7.1	111.7
7.0	111.0
6.9	109.0
6.3	110.2
6.3	108.1
5.9	105.3
6.4	104.9
6.0	101.2
6.0	102.8
6.6	97.9
5.4	97.8
6.0	100.8
6.2	98.5
6.6	97.0
7.4	96.7
6.5	97.3
5.7	113.8
7.5	126.2
7.8	113.4
7.1	105.5
7.1	100.6
6.6	100.1
6.9	98.0
6.3	92.9
5.7	92.8
5.8	92.8
5.8	92.5
6.1	93.8
6.7	92.6
7.0	95.8
6.1	103.5
5.5	103.7
4.9	115.3
6.1	145.7
6.6	133.3

5.8	121.5
5.6	125.2
6.0	123.2
7.3	110.9
4.2	116.5
5.3	118.3
5.9	110.3
5.4	110.0
4.9	110.5
5.5	108.7
4.4	117.9
6.4	116.7
5.9	108.2
6.7	93.6
4.4	97.1
5.9	102.2
5.0	104.2
6.2	114.2
6.0	87.8
5.4	94.0
5.6	94.1
5.8	95.8
5.3	102.1
5.4	104.8
5.6	104.3
4.9	103.4
5.5	107.6
6.9	79.2
6.3	83.2
5.3	94.2
6.2	97.3
6.1	96.8
5.3	101.4
6.3	93.0
5.6	88.4
6.4	90.6
6.8	89.3
7.4	81.4
7.4	72.0
4.8	87.9
5.1	86.8
5.1	88.9
5.0	78.5
4.4	82.3
5.0	90.0
5.1	87.0
5.3	88.4

6.0	87.8
5.5	87.6
4.8	78.1
4.3	75.0
4.6	81.9
4.6	74.5
4.4	70.9
3.9	75.6
4.4	79.6
5.4	87.1
5.2	84.6
5.1	86.7
5.1	84.9
4.8	71.8
5.2	90.5
5.2	77.6
4.8	59.6
3.8	70.4
4.6	82.0
5.2	84.4
5.1	82.1
4.8	76.3
5.0	77.9
5.5	83.6
5.4	82.4
5.3	81.2
5.1	80.3
5.3	82.2
5.0	75.7
5.1	79.1
5.2	76.0
4.3	67.7
4.3	66.5
5.1	77.3
5.0	74.3
5.5	81.6
4.7	78.2
3.8	77.9
5.0	77.7
5.0	78.4
4.8	75.1
5.0	76.4
4.7	71.0
5.2	78.5
5.2	78.0
5.3	78.3
4.7	71.2

4.4	70.5
5.2	77.5
5.5	82.5
5.3	82.4
5.2	80.5
5.1	80.6
4.9	78.3
4.8	73.8
4.6	66.3
5.9	83.5
5.2	75.0
6.0	83.1
5.4	79.2
4.9	75.2
4.9	75.4
5.0	76.2
4.7	77.1
4.7	79.1
4.6	77.4
4.5	77.9
4.5	78.6
4.9	77.5
5.6	84.2
6.9	87.2
8.1	84.4
8.1	84.2
8.1	84.3
7.8	83.5
6.6	74.2
5.8	81.6
6.9	85.2
7.2	85.1
7.7	86.6
6.7	83.8
7.4	84.7
8.4	86.4
8.3	83.8
7.8	85.2
7.7	86.6
7.9	88.9
8.5	92.0
8.0	85.5
7.3	81.9
6.8	84.5
7.5	89.3
7.4	97.5
7.8	99.1

7.9	101.8
8.4	97.4
7.4	96.4
7.6	96.1
7.8	93.5
7.1	85.7
6.0	88.1
6.8	99.4
7.0	108.9
8.8	115.1
7.4	105.6
7.7	105.5
7.6	94.1
6.5	96.5
7.7	101.8
7.4	107.4
7.5	107.2
7.3	105.0
7.0	95.7
6.6	100.2
5.7	112.0
5.4	127.0
4.3	148.3
5.2	130.5
4.1	153.9
3.4	184.1
5.0	213.2
6.2	227.5
6.4	234.8
5.5	237.5
5.4	277.8
7.6	309.0
10.4	322.9
11.6	277.2
10.8	244.6
10.1	220.2
9.8	206.0
8.7	198.6
7.3	208.7
5.5	264.4
4.6	370.3
15.6	427.8
12.5	394.6
17.0	421.3
14.1	369.2
12.1	337.5
12.5	314.4

12.5	294.3
11.6	270.3
10.4	270.1
8.7	301.5
6.6	378.9
10.4	548.1
19.3	756.7
28.5	892.6
27.5	801.1
25.3	725.9
27.9	754.7
21.8	674.1
10.2	614.9
5.9	683.3
5.2	905.4
17.8	1183.8
32.4	1287.4
24.0	1113.9
16.5	1067.7
9.4	1110.3
12.7	1279.7
22.6	1498.6
28.8	1858.8
31.4	1870.4
28.8	1538.8
31.0	1672.0
42.5	1655.5
34.1	1482.1
30.5	1313.5
22.3	1299.3
25.9	1477.9
23.8	1564.8
26.2	1797.2
37.4	2121.4
36.7	2493.7
4.3	3016.3
8.9	3551.9
31.9	3708.9
32.4	3577.4
27.4	3523.4
17.3	3625.3
13.4	3697.4
29.3	3857.3
30.2	3764.2
26.4	3386.4
35.8	3026.8
49.0	2605.0

51.4	2577.4
57.4	2438.4
53.8	2379.8
45.1	2377.1
35.3	2528.3
30.5	2633.5
30.0	2455.0
34.1	2822.1
48.2	2257.2
28.1	2001.1
22.6	1818.6
22.3	1609.3
17.8	1373.8
11.0	1255.0
8.2	1174.2
4.6	1335.6
11.8	1422.8
22.1	1320.1
20.9	1093.9
16.1	999.1
14.4	926.4
13.9	838.9
13.0	748.0
11.3	687.3
10.6	642.6
10.1	611.1
9.5	540.8
8.6	486.8
7.4	452.6
8.4	420.4
9.3	390.5
9.1	367.2
8.4	359.2
9.0	405.7
5.9	424.5
10.6	539.6
13.4	501.4
9.6	421.6
7.0	366.9
7.2	329.4
6.7	299.9
5.7	280.1
5.1	256.7
4.9	240.4
4.3	230.2
3.9	221.5
4.3	227.2

5.6	207.3
5.7	194.0
3.0	197.6
4.5	288.9
10.1	303.0
9.9	257.7
7.0	243.9
8.4	237.2
6.8	239.5
7.1	232.5
6.8	211.3
5.8	190.5
5.8	175.5
6.2	160.5
6.1	151.8
5.9	148.3
5.7	150.0
4.8	168.7
6.6	159.9
6.6	143.1
6.0	136.0
5.9	135.3
5.5	138.5
7.4	138.7
6.3	160.0
8.7	151.6
6.4	144.6
8.1	166.4
8.7	147.5
7.5	137.3
7.1	128.5
3.0	155.6
9.2	175.8
7.6	177.9
9.3	166.7
8.2	142.0
6.6	130.2
6.5	123.4
5.9	118.5
6.4	113.9
6.3	108.2
6.0	107.2
6.0	105.8
6.4	103.7
5.3	109.2
6.5	108.4
6.0	104.8

6.2	99.3
5.9	98.2
5.9	95.3
5.9	94.2
6.4	95.6
6.4	96.9
7.8	101.3
7.4	102.4
7.6	99.9
7.6	98.1
6.5	94.5
6.9	95.2
7.1	94.6
6.8	97.3
6.9	95.1
7.3	94.8
7.8	93.4
6.9	91.3
6.9	99.0
8.0	98.6
7.4	98.4
7.1	99.6
7.4	99.6
6.8	108.5
7.7	117.7
7.5	110.3
7.3	105.8
7.1	101.7
7.1	97.7
5.9	96.3
6.4	94.7
6.6	97.9
7.8	95.5
6.3	92.2
6.0	94.9
6.4	95.6
6.1	96.6
6.5	98.4
6.5	100.6
6.8	99.6
6.0	97.8
7.1	99.6
6.2	98.2
6.9	98.3
6.8	93.6
6.4	101.9
7.1	97.7

6.7	93.7
6.0	95.9
6.4	102.8
7.1	98.4
7.2	92.4
7.0	89.0
6.6	89.2
6.4	89.8
7.2	86.0
6.2	85.2
7.4	82.7
6.5	82.3
6.6	78.8
6.4	83.8
8.9	66.0
3.5	57.9
5.6	77.9
6.8	91.3
7.2	96.3
8.8	78.3
7.0	74.0
6.0	60.8
4.3	61.7
2.5	76.0
2.5	76.3
2.2	72.0
2.9	60.3
3.1	65.3
2.8	69.5
1.9	67.6
1.7	61.1
2.8	75.4
2.4	69.9
2.1	64.9
1.6	54.5
2.6	76.6
3.2	82.5
3.4	83.7
3.2	82.5
3.0	79.8
3.2	80.8
3.2	81.1
3.7	89.3
3.2	75.3
2.0	53.8
1.5	56.5
3.2	93.8

3.8	96.9
3.6	90.5
3.8	89.0
3.4	82.9
3.5	83.7
3.1	76.4
2.3	64.2
3.9	87.7
3.3	76.1
3.2	74.5
3.0	73.6
3.3	74.1
3.1	73.3
3.5	76.2
3.4	75.0
3.2	73.9
2.4	62.1
1.9	58.2
3.6	83.3
4.5	95.8
4.4	94.1
4.1	93.9
3.8	92.0
4.3	98.2
4.3	97.3
4.1	93.0
4.1	91.9
3.9	86.8
3.1	73.3
3.1	70.0
1.0	84.2
5.0	78.6
4.4	84.7
5.1	84.9
5.6	83.1
6.1	81.6
4.1	76.8
2.6	64.4
0.9	69.4
0.1	79.4
4.0	82.9
5.2	85.5
4.6	86.5
5.5	83.5
5.5	83.5
6.0	84.1
7.2	85.3

7.8	85.4
7.7	86.7
7.3	87.9
7.5	90.1
8.2	96.9
9.7	110.4
10.9	102.5
9.0	95.6
8.8	88.2
6.8	83.6
5.2	86.5
5.5	90.7
6.8	95.4
8.2	95.0
8.5	95.1
8.0	95.6
7.7	96.7
7.5	96.4
8.0	87.7
7.9	83.9
7.4	81.7
6.5	82.4
5.9	88.3
7.3	82.9
7.0	80.9
6.3	84.0
8.4	85.6
8.8	89.1
9.0	84.4
7.5	80.2
8.6	87.9
8.5	90.0
9.2	95.9
9.2	104.8
9.2	107.7
9.4	100.3
8.7	103.5
8.6	117.6
8.8	139.1
9.2	161.9
9.1	185.0
8.6	227.6
11.1	261.7
11.2	250.5
12.0	257.2
11.4	260.8
11.5	255.6

10.4	228.9
10.9	233.5
11.0	222.2
11.0	225.3
11.9	218.5
8.0	226.5
7.6	227.9
9.1	214.0
9.5	212.8
8.9	221.0
9.6	211.4
9.7	193.3
9.0	191.6
6.9	216.0
5.3	275.4
9.5	316.1
9.0	269.5
8.9	263.8
7.0	267.8
2.5	346.0
6.4	456.7
14.7	516.3
16.8	523.7
17.4	548.9
13.8	577.5
14.1	729.4
21.8	624.9
22.1	545.9
16.8	471.7
11.7	447.0
13.4	495.7
16.9	506.4
14.1	459.3
12.5	442.5
10.1	404.2
9.0	367.3
7.8	341.5
7.0	335.7
4.6	331.6
6.4	327.7
4.3	333.2
0.1	425.5
3.6	603.7
4.0	774.4
6.8	858.4
7.2	955.2
12.7	1029.7

7.8	995.2
8.6	1232.6
17.5	1514.5
32.6	1686.6
37.4	1581.4
36.5	1534.5
35.0	1319.0
28.1	1171.1
22.0	990.3
24.1	857.5
20.4	771.3
19.8	788.1
23.3	766.1
17.6	748.3
11.0	962.3
17.5	1134.5
24.5	1252.5
23.2	1096.7
18.1	1072.7
15.4	1191.4
23.3	1416.3
29.0	1598.0
34.6	1860.6
34.8	2019.8
38.2	2299.2
62.6	2631.6
72.2	2591.2
60.5	2638.5
26.2	2787.2
19.4	3058.4
4.1	2967.1
18.5	3031.5
22.8	2807.8
54.0	2499.0
37.4	1981.4
28.3	2000.3
29.5	2106.5
26.6	2345.6
24.7	2601.7
37.2	2472.2
40.6	2211.6
38.2	2179.2
33.1	2095.1
37.0	2153.0
28.3	1970.3
21.6	1781.6
17.5	1674.5

14.6	1573.6
17.8	1493.8
10.1	1338.1
10.1	1248.1
7.2	1157.2
7.4	1096.4
8.2	974.2
7.7	893.7
6.2	891.2
8.6	875.6
8.9	813.9
8.2	784.2
7.4	747.4
5.5	737.5
5.0	863.0
2.6	1011.6
12.7	999.7
8.9	823.9
8.4	731.4
5.7	648.9
4.3	605.5
2.5	561.0
0.7	533.8
-1.1	571.5
1.4	594.4
10.6	624.6
7.2	491.2
4.5	425.7
0.9	408.1
1.4	456.5
4.2	405.9
2.9	374.9
-4.0	486.5
7.9	455.0
5.4	373.7
4.6	325.5
3.9	292.7
4.2	280.5
5.0	262.1
4.7	247.2
4.1	240.2
4.4	226.1
-0.8	281.5
5.3	309.2
2.1	302.5
5.8	314.5
5.6	265.2

4.9	236.5
4.7	223.1
4.1	209.1
4.6	193.5
3.8	181.8
3.4	174.1
2.7	165.5
3.1	153.3
3.3	149.6
3.5	144.0
3.2	141.9
1.6	144.9
3.4	154.1
3.6	136.5
2.8	127.1
2.9	124.8
3.3	116.4
3.3	110.4
2.8	108.1
2.1	111.3
3.0	113.7
3.6	106.7
3.2	102.9
3.4	99.2
3.2	94.8
3.0	95.5
2.7	93.6
2.8	98.1
2.7	100.6
1.6	141.1
4.8	154.0
5.7	136.1
4.9	121.6
3.5	140.1
6.6	141.0
6.0	132.0
5.8	123.7
5.9	114.2
4.6	105.6
4.4	103.1
4.3	100.3
3.7	106.1
5.6	121.2
5.6	116.3
6.6	109.1
7.0	106.9
6.4	109.7

7.1	111.4
6.4	114.7
4.3	170.3
15.6	221.5
12.0	185.1
8.8	199.2
7.8	224.4
8.5	228.0
10.4	196.0
8.2	174.9
8.4	171.2
8.2	155.9
7.1	155.6
6.0	149.2
5.0	145.2
5.5	137.7
4.9	119.3
3.8	129.9
4.4	123.9
4.0	122.3
3.7	121.2
3.7	120.3
4.4	131.0
5.5	115.5
3.0	133.6
5.2	126.4
4.8	121.7
4.3	123.5
5.3	113.3
2.6	117.9
4.8	111.8
3.4	115.4
3.4	120.2
4.0	111.4
3.1	113.3
4.1	108.9
3.6	108.5
4.0	110.3
4.4	108.2
3.8	108.1
5.1	105.8
5.0	93.1
3.3	95.6
4.0	99.4
5.2	88.6
2.8	99.0
4.6	95.6

5.0	88.2
2.6	89.2
2.0	107.6
7.8	86.5
3.3	73.0
3.6	86.9
4.7	103.1
5.2	99.6
4.5	100.8
4.6	99.5
5.2	96.6
4.4	93.2
4.2	93.8
4.6	93.5
5.0	86.1
5.1	80.7
3.7	84.7
5.3	90.1
4.2	85.4
6.4	82.6
6.4	60.1
3.2	47.0
2.7	52.6
1.2	63.0
2.8	59.3
2.1	55.4
1.7	57.3
1.6	64.4
2.2	68.6
2.1	72.5
4.7	62.7
3.9	63.2
2.8	64.3
3.6	60.3
2.3	63.8
2.4	63.2
0.8	67.7
1.8	64.6
1.2	66.8
3.2	62.8
2.6	66.4
2.2	70.0
2.9	69.9
2.4	73.5
3.5	71.6
3.0	72.7
2.2	73.0

3.6	65.3
1.9	65.6
3.3	53.0
2.9	62.0
3.8	65.4
3.4	71.1
3.4	76.2
5.7	72.0
4.3	80.2
4.2	79.9
4.2	70.9
3.9	71.0
4.0	68.2
3.8	70.7
3.7	65.0
3.7	54.9
3.5	62.1
3.7	74.6
4.1	77.9
4.0	82.2
3.8	74.7
3.8	67.1
3.6	71.2
3.7	64.9
3.7	68.0
3.5	71.7
3.8	63.6
3.6	70.8
3.8	68.6
3.9	72.4
3.9	73.8
4.0	74.2
4.0	74.5
3.9	75.4
4.0	75.3
3.9	76.2
3.8	76.4
3.9	69.4
3.7	73.3
3.8	72.0
3.6	72.8
4.0	64.0
3.7	75.5
3.9	77.9
4.0	77.0
3.8	76.8
4.0	71.1

3.8	76.7
3.9	75.4
3.7	78.4
3.8	71.7
4.0	64.2
3.7	79.5
4.0	77.0
3.9	74.8
3.9	72.8
3.7	70.2
3.0	72.4
3.2	73.0
2.2	70.4
2.1	74.7
2.2	75.3
2.4	77.3
3.1	72.8
1.8	71.6
1.4	69.3
0.2	71.5
1.2	74.0
2.6	74.1
2.7	70.8
1.6	72.4
2.0	74.0
2.1	77.4
2.2	79.4
2.5	78.8
2.6	74.7
1.4	75.9
2.2	77.1
2.4	73.5
2.3	72.2
1.8	76.3
3.3	104.4
6.5	102.6
4.2	99.9
4.0	100.2
4.1	99.9
4.8	96.0
5.3	94.1
3.8	88.8
4.0	99.4
3.4	109.1
2.7	122.5
6.1	130.5
5.4	117.0

5.5	116.6
3.9	136.5
2.2	190.0
11.3	275.2
10.5	203.7
6.1	175.5
3.8	198.0
3.8	230.0
7.5	220.4
7.7	183.6
6.0	174.2
3.6	189.8
4.5	204.7
4.3	181.5
4.9	189.6
4.1	213.1
7.0	205.8
3.6	188.6
0.7	242.9
2.7	304.4
3.0	310.7
2.0	366.8
0.6	435.3
1.9	535.8
1.5	665.4
11.7	754.8
14.0	678.7
10.2	575.7
11.2	544.6
6.4	480.9
3.5	496.1
2.0	581.5
2.1	734.5
-1.3	942.3
19.4	1208.4
16.1	1309.1
27.1	1584.1
29.8	1585.8
33.1	1585.1
26.4	1446.4
13.9	1345.9
11.8	1452.8
25.4	1649.4
36.7	1603.7
25.4	1379.4
14.2	1245.2
7.7	1265.7

14.4	1374.4
20.4	1425.4
10.6	1396.6
13.2	1618.2
31.2	1781.2
21.6	1571.6
25.7	1558.7
16.8	1336.8
2.6	1231.6
1.9	1393.9
20.2	1536.2
15.6	1410.6
14.9	1392.9
9.4	1440.4
14.9	1452.9
17.0	1416.0
13.9	1315.9
12.2	1271.2
11.8	1222.8
10.3	1167.3
10.3	1067.3
7.9	963.9
7.4	949.4
11.3	913.3
8.9	841.9
10.3	826.3
-1.0	1013.0
26.6	1145.6
19.7	807.7
10.8	681.8
6.5	624.5
4.1	579.1
3.1	517.2
2.2	481.2
3.1	433.1
1.6	409.1
0.3	393.1
-0.2	375.5
0.1	359.8
0.5	332.6
1.0	306.9
1.2	291.1
1.1	271.7
1.0	262.7
1.0	250.9
0.8	242.5
0.3	238.2

0.6	243.9
0.9	243.3
1.7	221.6
1.2	212.1
2.8	207.1
2.0	198.5
2.2	188.1
2.4	179.4
2.5	181.1
3.3	166.6
3.1	158.2
3.0	147.7
2.7	139.6
2.6	136.8
2.4	133.4
0.8	136.6
4.8	138.9
3.5	128.9
4.1	127.1
4.0	120.4
3.0	113.7
2.8	115.0
3.3	110.5
3.2	102.0
2.6	96.6
2.8	100.1
1.9	110.1
2.6	141.9
3.7	135.3
5.4	126.0
4.2	109.9
3.5	98.0
2.8	92.2
2.1	88.8
1.8	89.5
2.0	86.7
2.4	82.4
1.9	78.3
2.2	76.2
2.3	74.8
2.1	77.5
3.0	83.9
3.6	93.5
5.0	90.2
4.1	86.6
1.9	127.1
5.1	144.0

6.7	128.9
6.4	108.7
5.4	97.1
4.8	99.8
6.5	94.4
4.1	87.9
4.2	82.3
4.3	80.5
4.2	83.1
3.0	79.3
3.6	80.2
4.5	78.3
3.6	76.9
3.6	81.1
3.2	79.6
3.4	76.6
3.2	73.3
2.3	72.1
2.7	69.7
3.1	68.5
3.1	66.6
2.6	63.7
2.4	61.6
2.4	59.8
2.6	58.2
2.8	57.1
2.5	58.0
2.1	66.4
2.6	65.0
2.6	62.8
2.4	62.3
2.2	63.0
2.6	69.5
2.8	67.8
2.7	67.1
2.9	64.7
2.6	64.9
2.5	61.8

Memorandum

To:	Caroline Byus, LRE
From:	Mark Mitisek, LRE Bob Weaver, LRE
Reviewed by	Dan DeLaughter, LRE
Date:	07/30/2015
Project:	710UEV57
Subject:	Low Flow Calculations for the Vail, Avon, and Edwards WWTF Discharge Permit Renewals

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The purpose of this memorandum is to provide a technical description of the data sources and the methods used in the calculation of average daily stream flows above the Vail, Avon, and Edwards wastewater treatment facilities (WWTFs). Additionally, the flow records were processed using DFLOW to develop annual and monthly low flow estimates (1E3, 7E3, and 30E3) above each WWTF to inform CDPS discharge permit calculations.

Flow Calculation Period

Stream flows and associated low flows were calculated for the period from October 1, 2004 through September 30, 2014. This period coincides with the most recent 10 years of data (water year) available from United States Geological Survey (USGS) records. Ten years of data are typically used by the Water Quality Control Division Permits Unit to calculate low flows for use in permit limit calculations. Flow records at key gages used in this analysis are mostly complete for the full period of record; however, some data processing was required to fill flow gaps.

Calculated Streamflows above Vail WWTF

The USGS gage, Gore Creek above Red Sandstone Creek at Vail (09066325, "GC Abv RSSC"), is located approximately 100 feet below the Vail WWTF. The gage has a period of record from October 1, 1999 to present. Daily average effluent flow data for the Vail WWTF were provided by the Eagle River Water & Sanitation District (ERWSD) for the flow calculation period. Flows upstream of the Vail WWTF were calculated by subtracting the daily average effluent flows from the observed historical streamflow values at the 09066325 gage.

Calculated Streamflows above Avon WWTF

The USGS gage, Eagle River below Wastewater Treatment Plant at Avon (09067020), is located approximately 500 feet below the Avon WWTF. The gage has a period of record from October 1, 1999 through present. Daily average effluent data for the Avon WWTF were provided by ERWSD for the flow calculation period. Flows upstream of the Avon WWTF were calculated by subtracting the daily average effluent flows from the observed historical streamflow values at the 09067020 gage.

Calculated Streamflows above Edwards WWTF

There is no continuous flow gaging station located directly upstream or downstream of the Edwards WWTF outfall. The nearest gaging stations on the Eagle River are "Eagle River below Wastewater Treatment Plant at Avon" (USGS 09067020, "Avon Gage"), which is located 6 miles upstream from the Edwards WWTF outfall, and "Eagle River below Milk Creek near Wolcott" (USGS 94220106431500, "ER Blw. Milk Creek Gage"), which is located 8 miles downstream from the Edwards WWTF outfall.

The only gaged tributary between the two USGS gaging stations is Lake Creek, which is measured at the "Lake Creek near Edwards" (USGS 09067200, "Lake Creek Gage") gage station. There is approximately 150 mi^2 of ungaged watershed area between the two mainstem gage stations.

To accurately represent streamflow conditions directly above the Edwards WWTF, the ungaged gains and losses between the Avon and ER Blw Milk Creek gages must be quantified and allocated to the Eagle River above and below the Edwards WWTF outfall. In the previous Water Quality Assessment conducted by the Water Quality Control Division in 2010, flows directly above the Edwards WWTF were calculated simply by adding the flows at the Avon Gage with flows at the Lake Creek Gage. This approach, however, did not account for ungaged inflows and other tributary inflows occurring between Avon and Edwards. In order to account for the influence of additional ungaged flows, the following steps were used to reconstruct the streamflows above the Edwards WWTF:

1. **Calculate the total gaged flow above the Edwards WWTF** –The total gaged flow above the Edwards WWTF is the sum of the Avon Gage and Lake Creek Gage stations.

$$Q_{Gaged} = Q_{Avon} + Q_{Lake\ Creek}$$

2. **Fill missing period of record at Eagle River below Milk Creek near Wolcott using regression** - Within the flow calculation period, the ER Blw Milk Creek Gage station has missing data from October 1, 2004 through April 28, 2006 (575 days or 16% of the study period). The missing period of record was filled using monthly regression equations between the ER Blw Milk Creek Gage and the gaged flows from Step 1 (Q_{Gaged}) for the overlapping period from April 29, 2006 through September 30, 2014

3. **Calculate the total ungaged gain or loss between the Avon Gage and ER Blw Milk Creek Gage**– The total ungaged gains and losses between the Avon Gage and ER Blw Milk Creek Gage were calculated as the difference between the filled ER Blw Milk Creek Gage station and the total gaged flows from Step 1.

$$Q_{Ungaged} = Q_{ER\ Blw\ Milk} - Q_{Gaged}$$

Distribute ungaged gains and losses proportionately based on watershed area – Table 1 below contains a summary of the total drainage areas and contributing areas associated with each gaging station location, and the location directly above the Edwards WWTF outfall.

Table 1: Drainage Area Statistics

Station ID	Station Name	Total Drainage Area (mi^2)
09067020	Eagle River below Wastewater Treatment Plant at Avon	401
09067200	Lake Creek near Edwards	49
Edwards	Eagle River at Edwards WWTF Outfall	486
394220106431500	Eagle River below Milk Creek near Wolcott	600

Area in square miles for each gaged site from the USGS NWIS web interface (http://waterdata.usgs.gov/nwis/sw)

Area in square miles for the ungaged site at Edwards from the USGS StreamStats map interface (http://streamstatsags.cr.usgs.gov/v3_beta/viewer.htm?stabbr=CO)

The ungaged portion of the watershed that contributes to the total streamflow above the Edwards WWTF was determined using the following algorithm**:**

- Gaged Area Total = Avon Area + Lake Creek Area= 401 + 49 = 450
- Ungaged Area Total Above ER Blw Milk Creek = ER Blw Milk Creek Area – Gaged Area Total = 600 – 450 = 150
- Edwards Portion of Ungaged Area (%) = (Edwards Area – Gaged Area)/ Ungaged Area Total Above ER Blw Milk Creek = (486-401-49)/150 = **0.24** (24%)

Therefore, to determine the portion of the total ungaged gains and losses between the Avon gage and the ER Blw Milk Creek gage that can be attributed to the stream site above the Edwards WWTF, an area proration factor of 24% was applied to the total ungaged flows.

$$\mathbf{Q_{UngagedAvonToEdw} = Q_{Ungaged}\ X\ 24\%}$$

4. **Calculate streamflows above Edwards WWTF** – The final step in calculating the streamflows above the Edwards WWTF ($Q_{AbvEdwards}$) is to add the area adjusted ungaged gains or losses ($Q_{Ungaged\ adj}$) from Step 4 to the Gaged Flows (Q_{Gaged}) from Step 1. The final result is a more accurate estimate of streamflows above the Edwards WWTF for the flow calculation period of October 1, 2004 through September 30, 2014.

$$\mathbf{Q_{Edwards} = Q_{UngagedAvonToEdw} + Q_{Gaged}}$$

or

$$\mathbf{Q_{Edwards} = Q_{UngagedAvonToEdw} + Q_{Avon} + Q_{LC}}$$

The attached Excel spreadsheet, "Edwards_US_Flow_Data_2004_to_2014.xlsx", includes the calculated streamflows above Edwards WWTF using the above described method. Additional supporting files for this analysis are listed below:

CD\ERWSD_WWTF_streamflow_data_and_Calculation Method\

- 09067020.csv – CSV file of UGS flows at USGS Gage 09067020
- 394220106431500.csv – CSV file of USGS Gage 394220106431500
- 09067200.csv – CSV file of USGS Gage 09067200
- Calculated_Inflows.TSTool – TSTool Commands file for pulling flows and conducting regression analysis
- EagleRiver_Regression_Stats.xlsx – Summary of regression analysis
- USGS_StreamStats_Info – text document summarizing watershed area calculations from StreamStats

DFLOW Calculations for Gore Creek and the Eagle River

Low flow estimates (1E3, 7E3, and 30E3) were calculated using the flow records developed as described above for the Vail, Avon, and Edwards WWTFs. Monthly low flows were developed using the flow calculation period at each upstream location and the state's DFLOW software. Tables 2 through 4 summarize the results for each location.

Table 2. DFLOW Results for Above Vail WWTF

Vail	Ann.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1E3	6.9	6.9	8.9	8.3	13	41	46	27	18	13	15	7.5	7
7E3	8.2	8.2	9.5	9.3	14	33	41	25	19	14	15	10	8.2
30E3	10	10.2	10.2	11	11	22	37	25	17	16	14	12	10

Table 3. DFLOW Results for Above Avon WWTF

Avon	Ann.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1E3	28	28	35	37	61	190	218	113	75	55	56	32	28
7E3	32.5	32.5	38	39	52	167	195	98	79	60	59	38	32.5
30E3	38.3	38.3	38.3	39	46	93	153	97	72	65	48	38.3	38.3

Table 4. DFLOW Results for Above Edwards WWTF

Edwards	Ann.	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1E3	43.7	43.7	49	50	81	232	243	148	102	73	74	48	43.7
7E3	48	48	52	53	69	195	222	137	101	78	76	55	48
30E3	53	53	53	54	61	113	206	131	93	86	70	53	53

Calculation of Effluent Limits – Edwards WWTF

The change in approach for calculating the Edwards WWTF upstream flows required a minor change in the mass balance used to calculate Edwards WWTF effluent limits. The only difference in this calculation from the 2010 WQA is that the previous gain between Avon and Edwards only included inflows from Lake Creek. The new method includes the total gain, including ungaged flows. For the purposes of calculating effluent limits, the mass balance equation from the 2010 WQA can be adjusted as follows:

$$M_E = [(Q_T * M_{WQS}) - (Q_A * M_A) - (Q_R * M_R) - (Q_{Gain} * M_{Gain})] / Q_E$$

where,

M_E = total assimilative capacity for the Edwards facility
Q_T = total downstream flow including the Eagle River above Avon low flows, Lake Creek low flows, gain low flows, and the Edwards and Avon facilities design flows
M_{WQS} = water quality standard
Q_A (cfs)= design flow of the Avon facility
M_A = assimilative capacity allocated to Avon above
Q_R = river low flow directly above Avon WWTF
M_R = ambient water quality of the river above Avon WWTF
Q_{Gain} = Lake Creek low flow + Ungaged gain low flow
M_{Gain} = ambient quality of gain between Avon and Edwards WWTFs
Q_E = design flow of the Edwards facility