



STRATMOOR HILLS WATER DISTRICT

CENTRALIZED WATER TREATMENT

1041 PERMIT APPLICATION

SECTION 4.201

MAY 2020

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10. Well No. 10 Permit
11. Fountain Valley Authority Water Quality Report

4.201 Application Submission Requirements

- (1) **Preliminary review and comment on the proposal by the appropriate agency of the Colorado Department of Natural Resources and the Colorado Department of Public Health and Environment within sixty (60) days of the date of submittal of the proposal for review.**

The Colorado Department of Natural Resource's Parks & Wildlife Division and Division of Water Resources have already reviewed the Project and provided feedback (see Appendix C in Attachment 4). Neither agency had any comment.

The CDPHE's Air Pollution Control Division has already reviewed the Project and provided feedback (Appendix C in the Environmental Assessment). The Air Pollution Control Division did not have any applicable comments. The CDPHE Water Quality Control Division will be provided a design submittal to review. The Water Quality Control Division must provide approval of the Project for construction.

- (2) **Scope of Proposal:**

- (a) **Provide detailed plans of the proposal, including proposed system capacity and service area plans mapped at a scale acceptable to the Department.**

Site plans and maps are provided as attachments to this application submittal.

- (b) **Provide a description of all existing or approved proposed domestic water or sewage treatment systems within the Project area.**

The Stratmoor Hills Water District owns and operates the water treatment systems in the Project Area, with treatment systems at their individual wells. Sewage treatment is provided by CSU at their Las Vegas Street treatment facility.

- (c) **Describe the design capacity of each domestic water or sewage treatment system facility proposed and the distribution or collection network proposed in the Project area.**

The capacity of the proposed Stratmoor Hills Water District water treatment plant is 700 GPM (1.0 million gallons per day [MGD]) to 1,000 GPM (1.44 MGD). No improvements to the District's water distribution system are proposed. There are no wastewater treatment or collection systems proposed for this Project.

- (d) **Describe the excess capacity of each treatment system and distribution or collection network in the affected community or Project area.**

The Stratmoor Hills Water District currently uses their water supply wells to supplement their FVA surface water during high demand periods. The proposed treatment plant capacity of 1.0 MGD to 1.44 MGD will provide adequate capacity for the future when combined with the District's FVA surface water.

- (e) **Provide an inventory of total commitments already made for current water or sewage services.**

There are currently about 1,850 active resident taps that consume around 179,500,000 gallons per year or approximately 0.492 million gallons per day (MGD). The District is also populated with industrial and commercial areas that use an estimated 8,600,000 gallons per year or approximately 0.024 MGD. This

brings the total current daily demand to approximately 0.516 MGD, or approximately 578 acre-ft per year (AFY). Historically the District has purchased approximately between 500 and 600 AFY of Frying Pan Arkansas source water from the Fountain Valley Authority. It is expected that a minimum of 500 AFY will continue to be available during the 20-year planning period. The water is stored in a tank adjacent to the District's 2.5-million-gallon south booster station tank and infrastructure is in place to deliver this water. In addition, Wells 4, 5R and 10 that are historically used by the District have infrastructure in place to deliver 770 GPM, which equals to 1,108,800 GPD or 1242 AFY. The 20-year projected water demand is approximately 800 AFY. Therefore, the District's source water supply is adequate for the 20-year planning period.

(f) Describe the operational efficiency of each existing system in the Project area, including the age, state of repair and level of treatment.

Well No. 10 is the only well that is currently in service. Well No. 10 was originally constructed in 1973, and a new well pump was installed in 2018 with a pumping rate of 300 GPM. Well No. 10 is equipped with a tablet chlorinator (installed new in 2018) for disinfection and two 48-inch strong base anion exchange vessels (purchased in 2017) for PFAS removal. All of the pumping and treatment equipment at Well No. 10 is less than 2 years old and is in good condition. Well No. 10 is currently meeting all required regulatory drinking water standards.

Wells 4 and 5R are currently not in service. Wells 4 and 5R have tablet chlorinators for disinfection. The District had to take Well 4 off-line when it was recently determined to be under the direct influence of surface water (GWUDI), and Well 4 does not have filtration facilities in place to meet the required treatment for surface water. Well 5R is not currently in service. Well No. 4 has a pumping capacity of 350 GPM and Well No. 5R has a pumping capacity of 120 GPM.

(g) Describe the existing water utilization, including the historic yield from rights and use by category such as agricultural, municipal and industrial supply obligations to other systems.

There are currently about 1,850 active resident taps that consume around 179,500,000 gallons per year or approximately 0.492 MGD. The District is also populated with industrial and commercial areas that use an estimated 8,600,000 gallons per year or approximately 0.024 MGD. This brings the total current daily demand to approximately 0.516 MGD, or approximately 578 AFY. Historically the District has purchased approximately between 500 and 600 acre feet per year of Frying Pan Arkansas source water from the Fountain Valley Authority.

(3) Demonstration of Need:

(a) Provide population trends for the Project area, including present population, population growth and growth rates, documenting the sources used.

The current service population of the District is estimated to be 7,000 people. The Colorado State Demography Office provides yearly population estimates for El Paso County. A growth rate of 1.78% per year was calculated using the current population and 20-year projected population of the County. Using a growth rate

of 1.78% per year over the planning period of 20 years, the projected service population of the District is 9,962 people.

Using the Equivalent Residential Tap (ERT) method, the District's water demand is projected to increase from the current average flow of 514,866 gpd to 733,025 gpd in 20 years.

(b) Specify the predominant types of developments to be served by the proposed new water and/or sewage systems or extensions thereof.

The Project is not aiding in the projected population growth or development by increasing the water production capacity of the District. The Project consists of adding treatment to the District's existing wells, not increasing the well capacity.

The treatment facility will serve all the District's customers.

(c) Specify at what percentage of the design capacity the current system is now operating:

(i) Water treatment system.

Well No. 10 is the only well that is currently in service. The ion exchange treatment capacity at the well is 350 GPM. Well 10 is currently pumping at a rate of approximately 300 GPM. Therefore, it is operating at approximately 86% of its design capacity.

(ii) Wastewater treatment system.

Not applicable. Stratmoor Hills does not have a wastewater treatment system. Wastewater is conveyed to CSU for treatment.

(d) Specify whether present facilities can be upgraded to accommodate adequately the ten-year projected increase needed in treatment and/or hydraulic capacity.

The present Well No. 4 facility cannot be operated currently because it has been reclassified as a GWUDI well but does not have adequate treatment technology to operate under GWUDI requirements. This well facility would need to be expanded with filtration treatment to meet GWUDI requirements. Additionally, all wells are in the Widefield Aquifer which have known PFAS contamination. PFAS levels could rise to unsafe levels in the future, during which the wells would be taken offline until PFAS removal could be installed at the well facility. A centralized water treatment facility is the most economical and efficient way to treat the District's well water.

(4) Description of the water to be used by the Project and, to the extent identified by the Director in consultation with the applicant, alternatives, including: the source, amount, the quality of such water; the applicant's right to use the water, including adjudicated decrees or determinations and any substitute water supply plans, and applications for decrees or determinations; proposed points of diversion and changes in the points of diversion; the existing uses of the water; adequate proof that adequate water resources have been or can and will be committed to and retained for the Project, and that applicant can and will supply the Project with water of adequate quality, quantity, and dependability; and approval by the respective Designated Ground Water Management District if applicable. If an

augmentation or replacement plan for the Project has been decreed or determined or an application for such plan has been filed in the court or with the Ground Water Commission, the applicant must submit a copy of that plan or application.

Since this Project does not add customers or increase water demand, an augmentation plan is not a part of this Project. There is no Designated Ground An augmentation plan is not a part of this Project and there is no Designated Ground Water Management District for the Widefield Aquifer.

The Stratmoor Hills Water District has two existing augmentation plans filed with the State of Colorado that provide a total of eleven (11) wells for direct sources of potable water, including the three existing wells being utilized for this Project, Wells No. 4, 5R and 10. The other source, which is most utilized today, is the Frying Pan Arkansas water purchased from Fountain Valley Authority (FVA). The amount of water available from Fountain Valley Authority is dependent on the annual snow pack and spring runoff. Overall, the District has sufficient existing water rights to meet water demands. Current water demand averages approximately 578 ac-ft/year, compared to decreed water rights of 893 ac-ft/year.

The District only operates three wells for municipal use for its customers. These include Wells No. 4, 5R and 10. The well water is used primarily during high demands periods, typically during the summer, to supplement the FVA surface water. These three wells will be the source water for the new treatment facility. The well permits are attached to this application (Attachments 8-10). The locations of the wells are shown on the Facility Site Plan found in Appendix A of the attached Environmental Assessment (Attachment 4). The well pumps are sufficiently capable of providing a blended flow of 700 – 1,000 GPM to the treatment facility. Water supply redundancy in the system is sufficient due to there being three wells.

Additionally, the District has the FVA surface water capable of serving the District's needs during treatment facility downtime. The Fountain Valley Authority Water Quality Report is attached to this application submittal for water quality information (Attachment 11).

(5) Loss of Agricultural Productivity:

(a) Information on any agricultural water rights in the region converted to provide water for the Project, now or in the future.

No agricultural water rights were converted to provide water for the Project.

(b) Information on the amount of irrigated agricultural lands taken out of production, and a description of revegetation plans.

No irrigated agricultural land was taken out of production for this Project.

(c) Economic consequences of any loss of irrigated agriculture, including loss of tax base, in the region.

Not applicable.

(d) Information as to loss of wildlife habitat, loss of topsoil, or noxious weed invasion, as a result of the transfer of water rights and subsequent dry-up of lands.

No water rights were transferred for this Project.

(e) **Information on impacts to agricultural head gates and water delivery systems.**

No agricultural head gates or water delivery systems will be impacted by this Project.

(6) **The financial impact analysis of site selection and construction of major new water and sewage treatment facilities and/or major extension of existing domestic water and sewage treatment systems shall include but need not be limited to the following items:**

(a) **A review and summary of an existing engineering and/or financial feasibility studies, assessed taxable property valuations and all other matters of financial aid and resources in determining the feasibility of the proposed new facility including:**

(i) **Service area and/or boundaries.**

The location of the proposed water treatment facility was selected due to its close proximity to the District's groundwater wells No. 4, 5R and 10. The site is within the District's existing water service area.

(ii) **Applicable methods of transmitting, storing, treating and delivering water and collecting, transmitting, treating and discharging sewage, including effluent and/or sludge disposal.**

The District's distribution system currently contains three storage tanks, creating both gravity and pumped pressurization. Surface water from Fountain Valley Authority and the water drawn from wells is contained in a 2.5-million-gallon tank with a booster station that pumps water to a 150,000-gallon elevated tank. This creates a pressure zone in the north section of the District. Another 125,000-gallon tank is located north of the Fort Carson Railroad. Majority of distribution piping is PVC and cast iron (C.I.). The proposed Project will utilize the District's existing water storage and distribution system.

This Project does not include improvements to the District's sewage collection and transmission system. The District transmits the collected sewage to the CSU sewage collection system for treatment at CSU's Las Vegas Street treatment facility.

(iii) **Estimated construction costs and period of construction of each new or extension facility component.**

The estimated construction cost for the Project is \$2,990,000. Construction is anticipated to begin in 2020 and be completed during 2021.

(iv) **Assessed valuation of the property to be included within the service area boundaries.**

The Project will not expand the existing service area for the Stratmoor Hills Water District. The assessed property valuations for all of the properties within the existing service area can be calculated using the County tax assessor valuations.

- (v) **Revenues and operating expenses of the proposed new or extension facility, including but not limited to historical and estimated property taxation, service charges and rates, assessments, connection and tap fees, standby charges and all other anticipated revenues of the proposed new facility.**

The Project does not add any new customers. Revenues for the Stratmoor Hills Water District are estimated at approximately \$2,500,000 per year after the completion of the Project in 2021, which includes revenues from service charges, rates, connection and tap fees. The Water District's operating expenses are approximately \$2,350,000, and the Project is estimated to add approximately \$30,000 in additional operating expenses. The annual debt service for the funding of the Project is estimated at \$99,700.

- (vi) **Amount and security of the proposed debt and method and estimated cost of debt service.**

The Stratmoor Hills Water District is submitting a State Revolving Loan application to the Colorado Department of Public Health and Environment (CDPHE) to fund the Project. Based on input from CDPHE, a 0% interest rate is anticipated for a loan term of 30 years. The annual debt service is therefore estimated to be approximately \$99,700.

- (vii) **Provide the detail of any substantial contract or agreement for revenues or for services to be paid, furnished, or used by or with any person, association, corporation, or governmental body.**

A Water Treatment Contract between Fountain Valley Authority and Stratmoor Hills WD, City of Colorado Springs, City of Fountain, Security Water District, and Widefield Homes Water Company (referred to as Customers) was signed on November 1, 1979. This agreement states that the Customers agree to pay Fountain Valley Authority for Frying Pan-Arkansas water treated at the Fountain Valley Authority Water Treatment Plant and conveyed to the Customer's meter. Each year an Annual Plant Budget is created and agreed upon by the contract participants. The Fountain Valley Authority's rates for water treatment are determined by the Annual Plant Budget. Each Customer is billed based on a percentage of treatment costs and meter reads.

Legal Description



EXHIBIT A

LAND DESCRIPTION (TREATMENT FACILITY TRACT):

TRACT A TOGETHER WITH A PORTION LOT 1, GLENARM SUBDIVISION AS RECORDED UNDER RECEPTION NO. 207712593 OF THE RECORDS OF SAID EL PASO COUNTY, LOCATED IN THE SOUTHWEST QUARTER, SECTION 3, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, SAID TRACT OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE MOST NORTHERLY CORNER OF TRACT A, GLENARM SUBDIVISION AS RECORDED UNDER RECEPTION NO. 207712593 OF THE RECORDS OF SAID EL PASO COUNTY;

(BEARINGS REFERENCED TO HEREIN ARE BASED ON THE NORTHERLY LINE OF SAID TRACT A RECORDED AS BEARING S 49°35'38" E.)

THE FOLLOWING SIX (6) COURSES ARE ALONG THE NORTH, EAST AND SOUTH LINES OF SAID TRACT A:

THENCE, S 49° 35' 38" E, 299.49 FEET;

THENCE, S 15° 06' 23" W, 26.51 FEET;

THENCE, N 74° 53' 39" W, 112.89 FEET;

THENCE, N 53° 42' 00" W, 42.52 FEET TO A POINT OF NON-TANGENT CURVE TO THE LEFT,

THENCE 124.98 FEET ALONG THE ARC OF SAID CURVE TO THE LEFT WHOSE CENTRAL ANGLE IS 21° 42' 00", HAVING A RADIUS OF 330.00 FEET, AND WHOSE LONG CHORD BEARS N 64° 33' 00" W, 124.24 FEET;

THENCE, N 75° 24' 00" W, 20.50 FEET TO A POINT OF CURVE TO THE RIGHT;

THENCE 82.95 FEET ALONG SAID CURVE TO THE RIGHT WHOSE CENTRAL ANGLE IS 47° 16' 08", HAVING A RADIUS OF 100.55 FEET, AND WHOSE LONG CHORD BEARS N 51° 45' 56" W, 80.62 FEET TO A POINT OF NON-TANGENT CURVE TO THE LEFT;

THENCE 32.94 ALONG SAID CURVE TO THE LEFT WHOSE CENTRAL ANGLE IS 34° 19' 00", HAVING A RADIUS OF 55.00 FEET, AND WHOSE LONG CHORD BEARS N 45° 17' 22" W, 32.45 FEET TO THE BEGINNING OF A NON-TANGENT CURVE TO THE RIGHT;

THENCE 7.97 FEET ALONG SAID CURVE TO THE RIGHT WHOSE CENTRAL ANGLE IS 35° 07' 47", HAVING A RADIUS OF 13.00 FEET, AND WHOSE LONG CHORD BEARS N 27° 35' 02" W, 7.84 FEET TO A POINT OF NON-TANGENT LINE;

THENCE, N 07° 50' 20" W, 4.66 FEET;

THENCE, N 11° 32' 41" W, 6.33 FEET;

THENCE, N 16° 12' 10" W, 7.49 FEET TO A POINT OF NON-TANGENT CURVE TO THE RIGHT;

THENCE 20.56 FEET ALONG SAID CURVE TO THE RIGHT WHOSE CENTRAL ANGLE IS 69° 18' 06", HAVING A RADIUS OF 17.00 FEET, AND WHOSE LONG CHORD BEARS N 15° 55' 28" E, 19.33 FEET TO A POINT OF NON-TANGENT LINE;

THENCE, N 51° 20' 32" E, 12.29 FEET;

THENCE S 82° 34' 09" E A DISTANCE OF 134.38 FEET TO THE POINT OF BEGINNING.

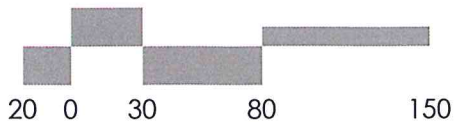
CONTAINING AN AREA OF 33,061 SF (0.759 ACRES) MORE OR LESS.

**Prepared By:
M.V.E., Inc.
1903 Lelaray Street, Suite 200
Colorado Springs, CO 80909
April 11, 2019**

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Page 2 of 2

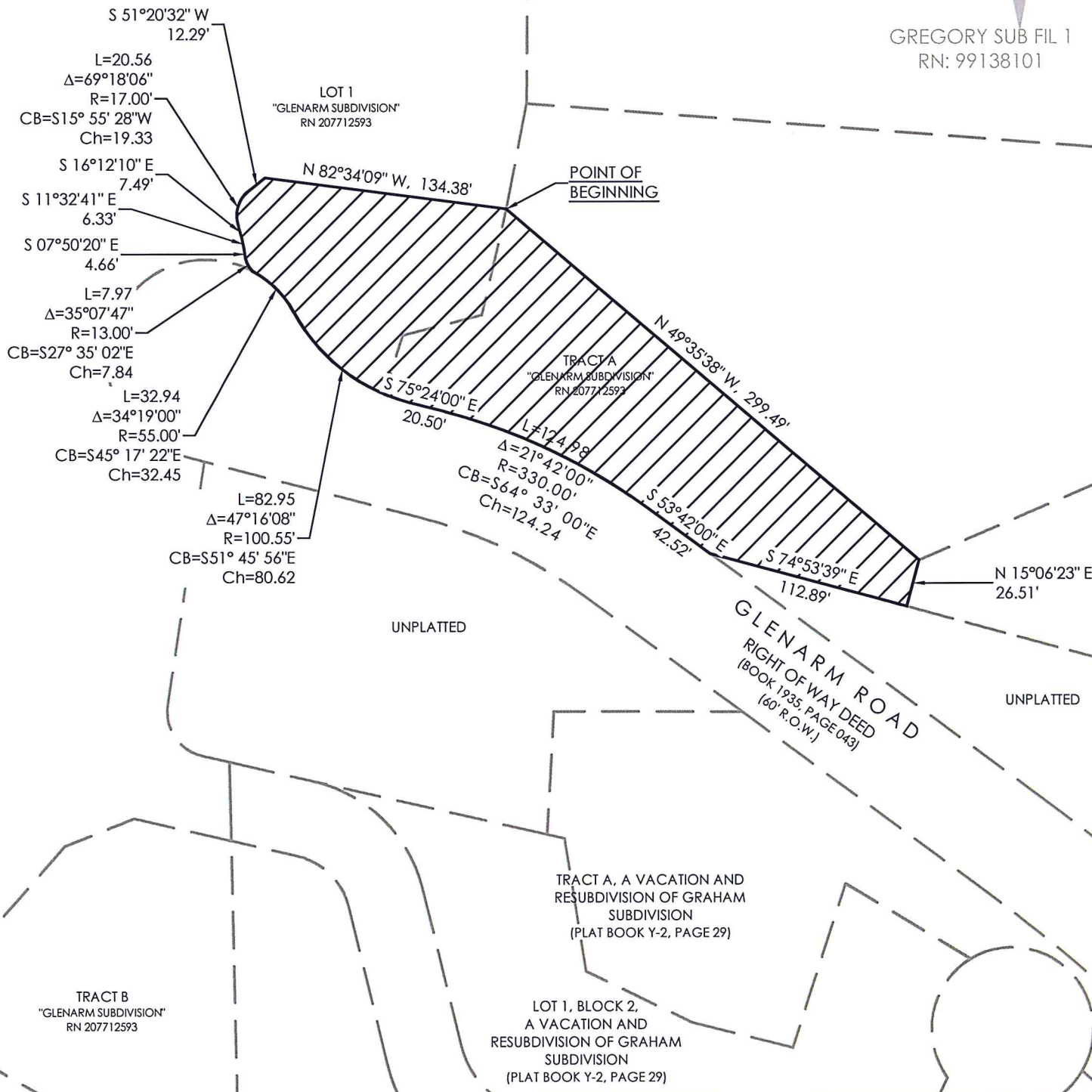
***M.V.E., Inc. • Engineers • Surveyors
1903 Lelaray Street, Suite 200 • Colorado Springs, CO 80909 • Phone 719-635-5736
Fax 719-635-5450 • e-mail mve@mvecivil.com***



SCALE: 1"=80' 1:960



GREGORY SUB FIL 1
RN: 99138101



**MONUMENT VALLEY
ENGINEERS INC.**



ENGINEERS * SURVEYORS
1903 LELARAY STREET
COLORADO SPRINGS, COLORADO 80909
PHONE (719) 635-5736

XREFS

PROJECT:

TREATMENT FACILITY TRACT

TITLE:

EXHIBIT B SKETCH

PROJ. NO.

61122

DATE:

APRIL 11, 2019

DRAWING NO.

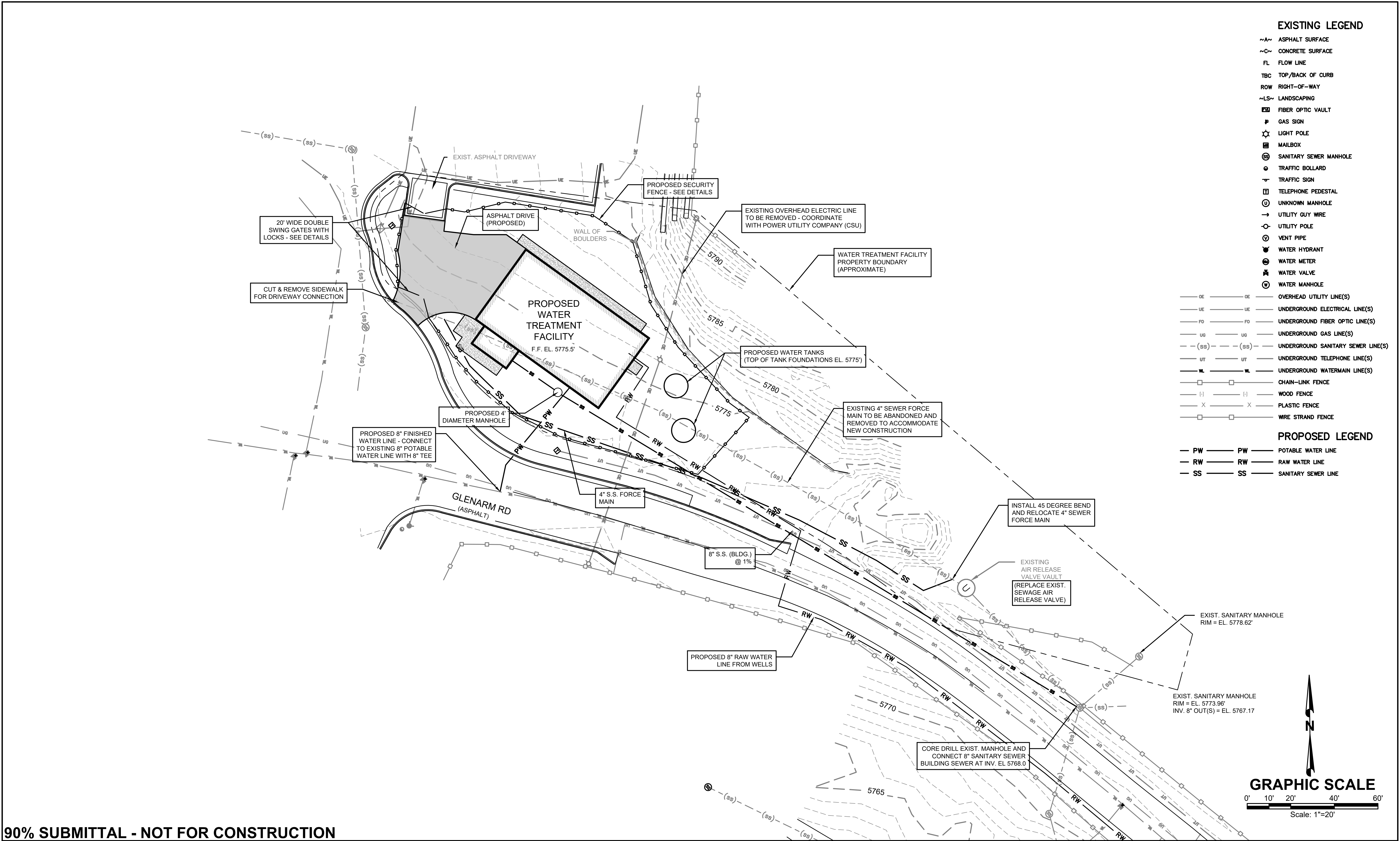
EASEMENTS

SHEET

1 OF 1

Plans

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90% SUBMITTAL - NOT FOR CONSTRUCTION

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DRAWN	E. WOODWARD
DESIGNED	
APPROVED	M. WARESAK
QA	M. WARESAK

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

STRATMOOR HILLS
WATER DISTRICT

FORSGREN
Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720-214-5884

CENTRALIZED WATER TREATMENT
WATER TREATMENT PLANT - SITE PLAN

PROJECT NO: 04-18-0103	
SHEET NO: C-07	
DATE: NOV, 2019	PAGE NO: 11 OF 35

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STORM DRAIN SYSTEM DATA	
INLET	<ul style="list-style-type: none">TOP OF GRATE - EL. 5773.0'INLET FLOOR - EL. 5769.0'12" INV. OUT - EL. 5770.0'
STORM MANHOLE	<ul style="list-style-type: none">INV. IN - EL. 5759.65'INV. OUT - EL. 5769.45'TANK 1 DRAIN - INV. IN EL. 5770.0'TANK 2 DRAIN - INV. IN EL. 5770.0'
EXISTING INFILTRATION BASIN	<ul style="list-style-type: none">12" DISCHARGE - INV. EL. 5769.0'

90% SUBMITTAL - NOT FOR CONSTRUCTION

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DRAWN	E. WOODWARD
DESIGNED	
APPROVED	M. WARESAK
QA	M. WARESAK

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" SCALE ACCORDINGLY)

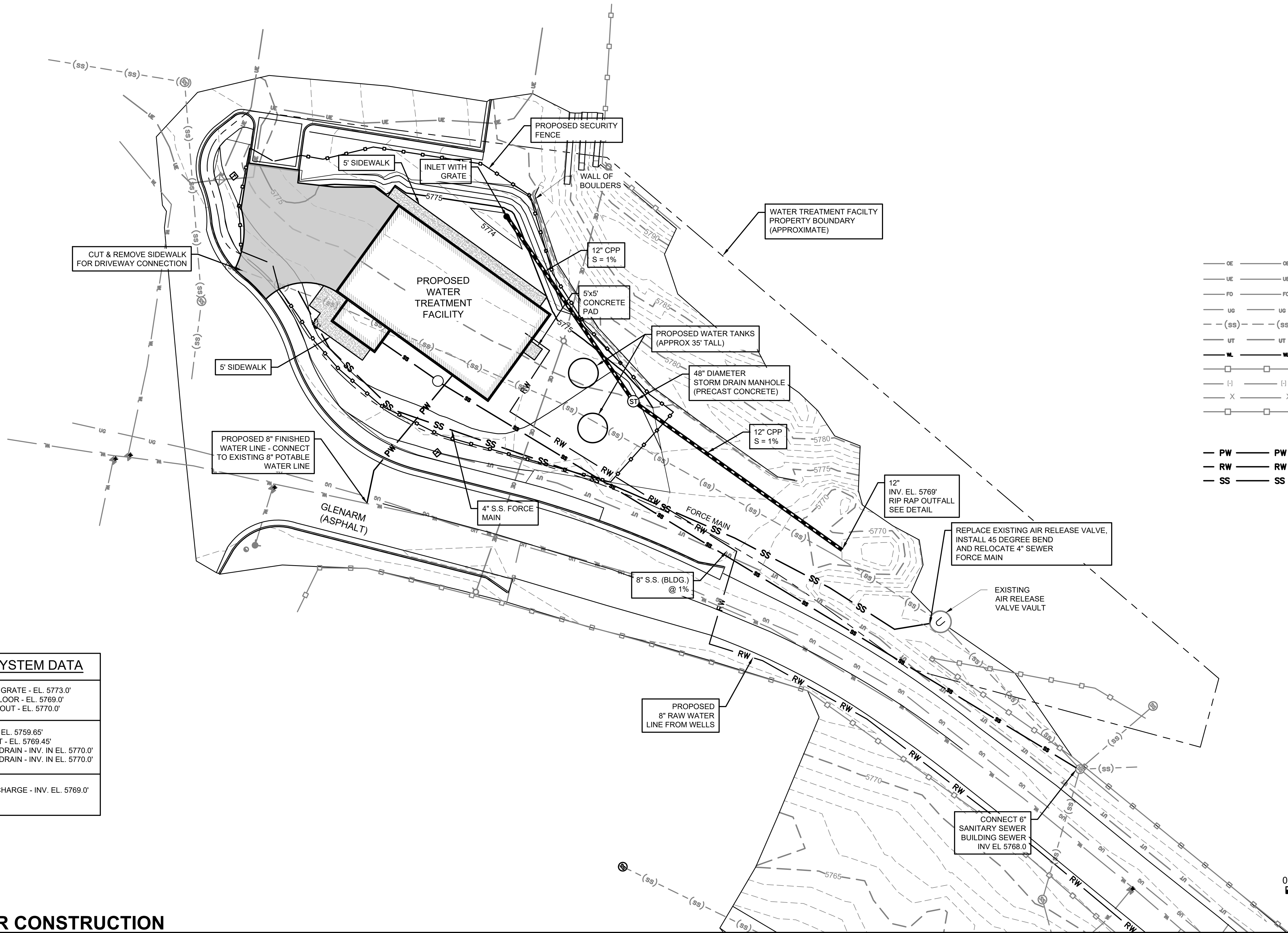
STRATMOOR HILLS
WATER DISTRICT

FORSGREN
Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720-214-5884

CENTRALIZED WATER TREATMENT

**WATER TREATMENT PLANT -
GRADING AND DRAINAGE PLAN**

PROJECT NO: 04-18-0103	
SHEET NO: C-08	
DATE: NOV, 2019	PAGE NO: 12 OF 35



EXISTING LEGEND	
~A~	ASPHALT SURFACE
~C~	CONCRETE SURFACE
FL	FLOW LINE
TBC	TOP/BACK OF CURB
ROW	RIGHT-OF-WAY
~LS~	LANDSCAPING
FO	FIBER OPTIC VAULT
PS	GAS SIGN
LP	LIGHT POLE
MB	MAILBOX
SM	SANITARY SEWER MANHOLE
TB	TRAFFIC BOLLARD
TS	TRAFFIC SIGN
TP	TELEPHONE PEDESTAL
UM	UNKNOWN MANHOLE
UW	UTILITY GUY WIRE
UL	UTILITY POLE
VP	VENT PIPE
WH	WATER HYDRANT
WM	WATER METER
WV	WATER VALVE
WMA	WATER MANHOLE
OE	OVERHEAD UTILITY LINE(S)
UE	UNDERGROUND ELECTRICAL LINE(S)
FO	UNDERGROUND FIBER OPTIC LINE(S)
UG	UNDERGROUND GAS LINE(S)
SS	UNDERGROUND SANITARY SEWER LINE(S)
UT	UNDERGROUND TELEPHONE LINE(S)
WM	UNDERGROUND WATERMAIN LINE(S)
CL	CHAIN-LINK FENCE
WF	WOOD FENCE
PF	PLASTIC FENCE
WSF	WIRE STRAND FENCE
PROPOSED LEGEND	
PW	POTABLE WATER LINE
RW	RAW WATER LINE
SS	SANITARY SEWER LINE

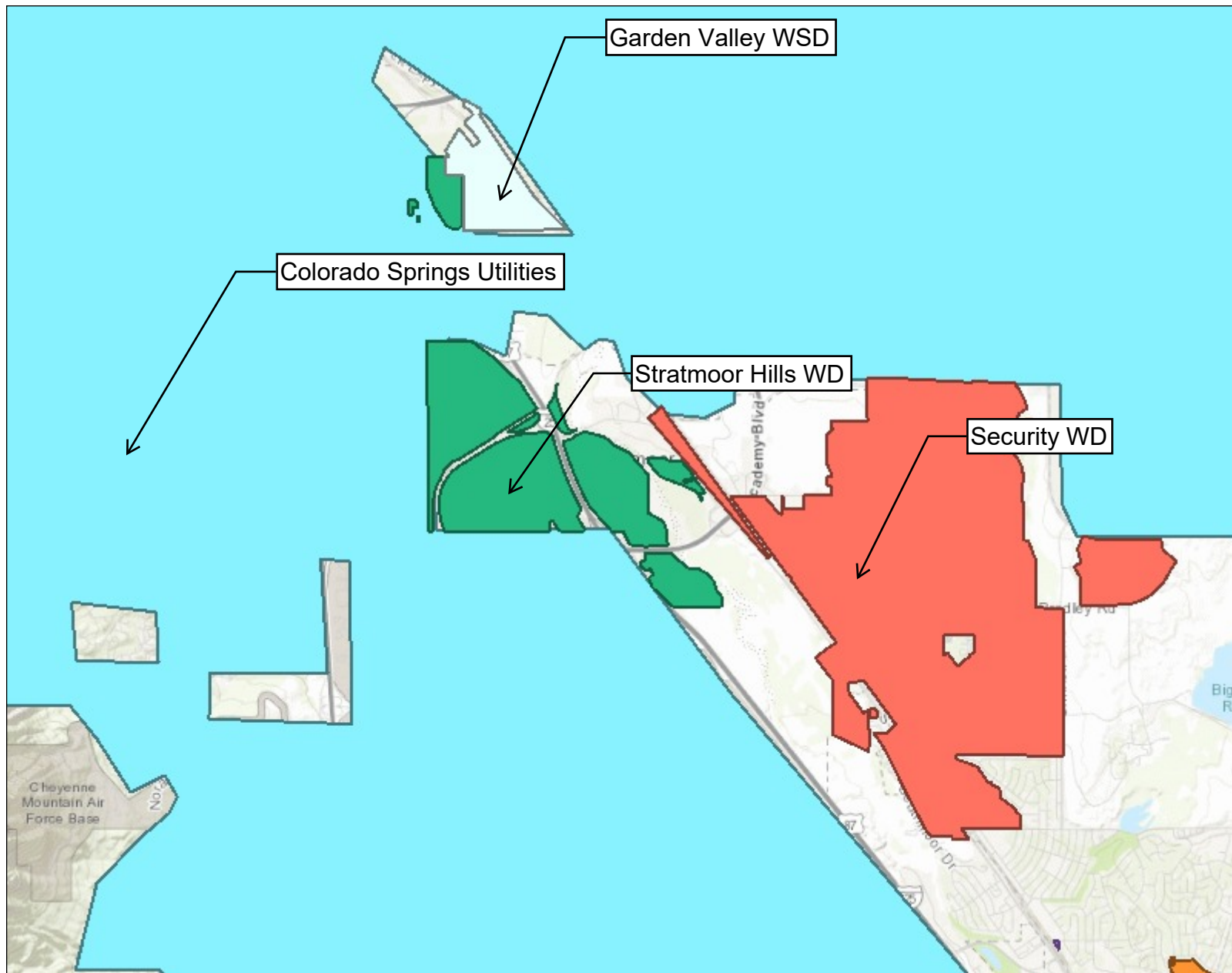
Water District Boundaries Map



CDSS

Colorado's Decision Support Systems

District Boundaries Map



2 0 1 2 Miles

1: 63,360



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Date Prepared: 8/15/2019 11:06:28 AM

Environmental Assessment

STRATMOOR HILLS WATER DISTRICT



CENTRALIZED WATER TREATMENT ENVIRONMENTAL ASSESSMENT



APRIL 2019

I. SUMMARY**A. PROJECT IDENTIFICATION**

Applicant: Stratmoor Hills Water District
Address: 1811 B Street, Colorado Springs, CO 80906
Project No: 04-18-0103

B. CONTACT PERSON

Mr. Kirk Medina, District Manager
Stratmoor Hills Water District
1811 B Street, Colorado Springs, CO 80906
719-576-0311
kirk@stratmoorhillswater.org

C. ABSTRACT

The purpose of the Stratmoor Hills Water District (the District) Centralized Water Treatment project is to construct a centralized water treatment plant to provide filtration and perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) removal for the District's existing wells. The project will not increase the existing well capacity. The main components of the project consist of constructing a new treatment facility, constructing a waterline to convey raw well water to the treatment facility, and painting an existing water storage tank. There are unavoidable impacts due to construction and operation of the project, but these impacts will be mitigated when possible to reduce the impacts. The total project cost is expected to be \$2,990,000. The project is planned to be funded through a grant and a loan from the Colorado Department of Public Health and Environment (CDPHE) and the Colorado Water Resources and Power Development Authority. The Design and Engineering grant amount is \$285,000. The loan will fund the construction, estimated at \$2,705,000.

D. COMMENT PERIOD

In conformance with the requirements of the National Environmental Policy Act and the Colorado Environmental Review Process, a Finding of No Significant Impact (FNSI) will be subject to a 30-day public review period. The FNSI will be distributed to interested persons and agencies for their review. The FNSI will be available for public review at the Colorado Department of Public Health and Environment. Any comments received will be given due consideration. Comments should be address to:

Evan Butcher, Project Manager
Water Quality Control Division Grants and Loans Unit
Colorado Department of Public Health and Environment

4300 Cherry Creek Drive South
Denver, CO 80246-1530

II. PURPOSE AND NEED FOR ACTION

There are several driving factors for the Centralized Water Treatment project. Currently, the District owns and operates three wells within the Widefield Aquifer to serve its customers. The three wells are designated as Well No. 4, 5R, and 10. Well No. 4 was reclassified by CDPHE on February 2, 2016 as Groundwater Under the Direct Influence of Surface Water (GWUDI). Well No. 4 does not currently have surface water treatment capabilities to meet CDPHE and US EPA treatment requirements for this classification and has been physically disconnected from the public water system.

The Widefield Aquifer has known contamination of PFOS and PFOA, which are possible carcinogens in humans. The USEPA has set a health advisory level for these compounds. The PFOS and PFOA concentrations in the District's raw well water are typically below the US EPA health advisory level, but the District had one raw water sample exceed the health advisory level of 70 µg/L. Because these compounds are related to cancer in humans, the District needs to have the ability to remove the compounds from water in case the concentrations rise in the future.

The proposed project should considerably reduce the operational efforts by the District staff. Three separate treatment and chlorination facilities for each of the wells will be consolidated into one facility. Maintaining treatment and disinfection at a centralized facility will reduce the time requirements of the District operators.

The District's water is pumped to one of three storage tanks before being distributed to its customers. One of the tanks, the South Booster storage tank, requires rehabilitation due to wear over the years. The South Booster storage tank is a 2.5 MG tank located northwest of the Interstate-25 and South Academy Boulevard intersection. The 2.5 MG tank will be repainted to ensure safe storage of the treated water.

III. PROJECT SUMMARY

The proposed project consists of building a centralized water treatment facility to treat the water from the District's existing wells. Several technologies were evaluated to address the GWUDI filtration requirements in the Project Needs Assessment (PNA) dated July 27, 2018. Filtration is required by Federal and State regulations to remove certain waterborne pathogens (*Cryptosporidium* and *Giardia*) that can cause intestinal infections. Alternative treatment techniques investigated for meeting the surface water filtration requirement were direct filtration, microfiltration, and cartridge filtration. The treatment alternative advantages, disadvantages, and 20-year present value life cycle costs are summarized in Table 1. Refer to the PNA for additional details.

Table 1
Centralized Water Treatment Technology Alternatives

	Direct Filtration	Membrane Filtration	Cartridge Filtration
Technology Description	Dual media (sand/anthracite) horizontal filtration vessels with coagulant fed to raw water.	Microfiltration membrane system with pretreatment strainers.	CDPHE-approved cartridge filter and housing system with cartridge prefilters.
Advantages	1. Commonly used for groundwater treatment. 2. Simple operation.	1. Meets pathogen removal requirements with no need for UV inactivation. 2. Operates effectively at low temperatures and has low energy requirements.	1. Simple operation. 2. No waste streams. 3. Lowest cost alternative.
Disadvantages	1. Produces backwash waste that must be disposed of. 2. High capital and operating costs.	1. High capital costs, high membrane cleaning and regeneration costs. 2. Produces concentrate and CIP wastes that must be disposed of.	1. Filter cartridges must be replaced periodically.
Life Cycle Cost (20-year P.V.)	\$12,349,000	\$11,605,000	\$4,249,000

Based on the PNA, cartridge filtration will be utilized at the proposed treatment facility. In addition to cartridge filtration, an ion exchange system will further treat the water to remove PFOS and PFOA to below US EPA's health advisory limit. Ultraviolet (UV) and chlorination systems will provide disinfection before water enters the District's distribution system.

The proposed project involves approximately 3,000 linear feet of 8-inch diameter raw water line installed within public road rights-of-way to connect the existing wells to the central treatment facility. A treatment building (approximately 2,000 square feet) will include cartridge filtration, ion exchange, chlorination, UV, and clearwell storage in an approximately 50,000-gallon welded steel water storage tank adjacent to the building. The District's 2.5 MG South Booster water storage tank will also be repainted as part of this project.

The project will be funded through grants and loans from the State Revolving Fund program. A Drinking Water Revolving Fund Design and Engineering Grant from the Colorado Water Resources & Power Development Authority has been secured for the design portion of the project. The balance of the project is expected to be funded with a loan from the same Drinking Water Revolving Fund program. Depending on the loan repayment amount, customer rates may need to be increased.

IV. AFFECTED ENVIRONMENT

A. DESCRIPTION OF THE PLANNING AREA

Stratmoor Hills Water District is a quasi-municipal entity in El Paso County, Colorado. The District serves the people of Stratmoor Hills, a census-designated area located along Interstate-25, south of Colorado Springs and north of Fort Carson. A “Facility Location Map” can be found in Appendix A.

The project site includes approximately 0.5 miles of waterline route located along Canam Highway (U.S. Highway 87) and Glenarm Road rights-of-way, and a new treatment facility site on currently vacant property. See the “Facility Site Plan” in Appendix A. The Facility Site Plan also shows the major waterbodies and the 100-year and 500-year floodplains. The “Project Area Wetlands Map” shows wetlands near the project area (Appendix A). The project area is not in a 100-year floodplain, wetland delineation, or critical wildlife habitat.

A file search has been conducted through the Colorado Office of Archeology and Historic Preservation (OAHP) to determine if the project area contains any national or state registered historic places. The project area does not contain any historically significant sites.

B. POPULATION AND FLOW PROJECTIONS

The current service population of the District is estimated to be 7,000 people. The Colorado State Demography Office provides yearly population estimates for El Paso County. A growth rate of 1.78% per year was calculated using the current population and 20-year projected population of the County. Using a growth rate of 1.78% per year over the planning period of 20 years, the projected service population of the District is 9,962 people.

Using the Equivalent Residential Tap (ERT) method, the District’s water demand is projected to increase from the current average flow of 514,866 gpd to 733,025 gpd in 20 years.

The project is not aiding in the projected population growth by increasing the water production capacity of the District. The project consists of adding treatment to the District’s existing wells, not increasing the well capacity.

V. ENVIRONMENTAL IMPACTS OF THE PROPOSED PROJECT

A. DIRECT AND SECONDARY IMPACTS

Construction of a water treatment project may have direct impacts from facility construction and secondary and cumulative impacts from future development within the service area. Secondary impacts are those induced or stimulated by, or

as a result of, the proposed action. These can include cumulative, social and land use impacts, among others. Cumulative impacts are the collective incremental impacts of the proposed action regardless of the entity undertaking the action. Cumulative impacts can result from individually minor but collectively significant actions taking place over a period of time. From the characteristics of the proposed project, and descriptive elements of the environmental setting, probable impacts are direct and secondary.

Since this project does not increase water system capacity, there would be no new development that would occur as a result of the project. Therefore, there would be no significant potential secondary and cumulative impacts to the environment. The following assesses primarily direct impacts for the project.

Surface Water and Groundwater Quality and Quantity

There will be no wastewater discharges to groundwater or surface water for the treatment process. The used cartridge filters will be disposed to a landfill, and the ion exchange resin is single use and will be hauled away and disposed of by the supplier when the resin is exhausted.

The project will involve land use change from undeveloped land zoned for residential development to a water treatment plant. The impact of the project construction from pervious to impervious surface will be very small due to the relatively small size of the treatment facility (less than 0.5 acres). There are no significant impacts to the groundwater or surface water expected during construction or operation of the facility.

The project will remove potentially harmful pathogens (Cryptosporidium and Giardia), and certain anthropogenic contaminants, namely PFOS and PFOA, from groundwater through filtration and ion exchange. Removing pathogens and contaminants from groundwater has a direct health benefit of the customers consuming the water and positively impacts the water system as it is recycled back to the environment after use.

Wetlands

There are no wetlands in the project area (see Appendix A). Erosion control measures will be in place during construction and there will be no wastewater discharges from the plant once in operation. There is no reasonable concern for the project to have impacts on wetlands in the surrounding area.

Floodplains

The project area is not within the 100-year or 500-year floodplain (see “Facility Site Plan” in Appendix A). Therefore, it is not expected that the proposed project will have any impact on the floodplain.

Terrestrial and Aquatic Plants and Wildlife

An Information, Planning, and Conservation System (IPaC) resources list was created for the project area. This list contains species and critical habitats known by the US Fish and Wildlife Service in the project area. The IPaC resources list can be found in Appendix B. A habitat analysis is shown in Table 2 for the species listed in the IPaC document. Note that the Least Tern, Piping Plover, Whooping Crane, Pallid Sturgeon, and Western Prairie Fringed Orchid are not included in Table 2 because these species only need to be considered if water-related activities or uses occur in the North Platte, South Platte, and Laramie River Basins. All water-related activities for this project occur in the Fountain Creek Basin, a tributary to the Arkansas River. The IPaC list indicates that no critical habitats for the listed species or wetlands are present in the project area.

Table 2
Habitat Analysis of Threatened and Endangered Species

Name	Status	Habitat Requirements	Potential for Habitat in Project Area
<i>Mammals</i>			
North American Wolverine <i>Gulo gulo luscus</i>	Proposed Threatened	Areas with deep, persistent, and reliable spring snow cover.	Low potential for impact. Reliable snow cover does not persist into spring.
<i>Birds</i>			
Mexican Spotted Owl <i>Strix occidentalis lucida</i>	Threatened	Mature forests and canyons with riparian or conifer communities.	No potential for impact. The habitat requirements are not preset in the project area.
<i>Fishes</i>			
Greenback Cutthroat Trout <i>Oncorhynchus clarkii stomias</i>	Threatened	Cold, clear, well-oxygenated streams and lakes with adequate stream spawning habitat present during spring.	No potential for impact. The habitat requirements are not present in the project area.
<i>Flowering Plants</i>			
Ute Ladies'-tresses <i>Spiranthes diluvialis</i>	Threatened	Moist meadows along perennial streams, floodplains, oxbows, lakeshores, and human-modified wetlands.	No potential for impact. The habitat requirements are not present in the project area.

The IPaC list shows multiple migratory bird species that have been known to inhabit the project area. The project site is not heavily vegetated, so it is not expected that construction activities will have a significant impact on the bird's breeding process. However, if an active nest is identified in the project area, measures will be taken to avoid disturbance to the nest.

Cultural, Historical and Archaeological Resources

There are no anticipated impacts to cultural, historical, or archaeological resources for the construction of this project. As stated earlier, the Colorado OAHF has reviewed the state records for the project area, and do not have any objection to the proposed work in the project area (see Appendix C). However, it

is possible that undiscovered resources could be uncovered during construction activities. In this event, the OAHP will be contacted and the proper procedure will be followed in an effort to preserve the resource.

Air Quality

The project area is in an attainment area. Secondary air quality impacts may result from construction dust, increased emissions from vehicle usage, heating systems, lawn care, commercial and industrial facilities, and electric generating systems. Based on the relatively small size of the project, the impacts to air quality are expected to be insignificant.

El Paso County Public Health Air Quality Regulations requires a construction activity permit if the land development is equal to or greater than 1 acre. This project will have a land development area of less than 0.5 acres and therefore will not require a permit.

The Air Pollution Control Division of CDPHE has reviewed the project (see Appendix C). The Division listed requirements that may apply to the project, but because the project is not a wastewater project, does not produce odors, has an earth moving construction area less than 25 acres, and will have earth moving construction activities less than 6 months in duration, the Colorado Air Quality Control Division comments do not apply to the project.

Environmental Justice

The majority of the population of Stratmoor Hills is white and Hispanic, and also includes African American, Asian, and others (based on information from statisticalatlas.com). All customers of the District will equally receive the benefits of improved water quality resulting from the project. The project site was selected based on proximity to the existing wells and availability of land, not based on socio-economic factors. No impacts from the proposed project are anticipated to affect minority populations disproportionately.

B. UNAVOIDABLE ADVERSE IMPACTS

There are several unavoidable impacts with the construction of the Centralized Water Treatment project. The impacts discussed in this section include short-term disruptions to the surrounding area and long-term impacts.

Short-Term

Short-term impacts from construction of the proposed project are anticipated to include noise disruptions, possible reduced air quality, and increased traffic to the site.

The project area is in a residential neighborhood. Construction activities will take place during normal business hours to control noise disruptions to the residents in

the surrounding houses.

Particulate levels in the air may increase during construction due to earthmoving and construction machinery operation. However, impacts to air quality are not expected to be significant based on the size of the project.

Construction workers, machinery, and project equipment will be traveling to and from the project site during construction. This will increase vehicle traffic to the project site. This is not something that can be avoided, but notice will be given and planning will be done so that residents in the surrounding houses are not adversely affected.

Long-Term

Long-term impacts from the construction of the proposed project are anticipated to include increased stormwater runoff and a slight reduction of wildlife habitat.

The construction of the centralized water treatment building will decrease the amount of existing pervious area on the site. Based on the relatively small size of the facility, it is expected that the existing drainage system in the street will capture and convey the increased stormwater runoff.

The existing project site is undeveloped and is potential habitat for wildlife. With the construction of the project, the area of habitat on the site will be slightly reduced. As stated previously, the IPaC assessment did not show results for critical habitat in the project area that needs to be protected. It should be noted that this property was previously planned for residential housing development, which would have had a similar slight reduction in potential wildlife habitat.

C. MITIGATION OF ADVERSE IMPACTS

Stratmoor Hills Water District is located in an area with several governing entities which serve to protect the natural resources of the area. One of these entities, the El Paso County Planning and Community Development Department, regulates development within the county. The department provides policies for mitigation of adverse impacts to protect natural resources through regulatory policy documents such as the Land Development Code, Engineering Criteria Manual, and Drainage Criteria Manual.

- El Paso County Land Development Code – States the regulations for development in the County regarding:
 - Development review and approval process – The District will obtain all necessary approvals for construction of the project.
 - Stormwater management plan – A stormwater management plan will be created for the site as required.
 - Drainage – The design of the site will include sufficient drainage

to meet County requirements.

- Floodplains – The project area is not within a 100-year or 500-year floodplain.
- Wetlands – Wetlands are not present in the project area.
- Erosion control and re-vegetation – Erosion control and re-vegetation requirements will be implemented to meet County requirements and prevent sediment from entering surface water.

The Land Development Code references the Engineering Criteria Manual and Drainage Criteria Manual.

- Engineering Criteria Manual – Contains engineering guidelines for development projects including drainage, wetlands, stormwater management, and floodplains. The project design will meet all applicable requirements.
- Drainage Criteria Manual – Contains drainage design guidelines for development projects including drainage, wetlands, stormwater management, and floodplains. The project design will meet all applicable requirements.
- Fountain Creek Corridor Restoration Master Plan – This is the regional watershed plan that details the conservation and restoration techniques to mitigate adverse impacts to the Fountain Creek watershed. The project area is within the Fountain Creek planning area. Appropriate erosion control measures will be taken to not adversely affect the planned creek restoration work.
- El Paso County Parks Master Plan – Describes the habitat and open space preservation and protection goals for the County. The project site is undeveloped, but was planned for development, so the project is not directly affected by this document.
- Growth Management – The project is not within a designated urban growth boundary.
- Air Quality Monitoring – There are no known local or regional air quality monitoring entities or requirements.
- Mitigation Measures Required by Agencies – No specific mitigation measures were requested by agencies that were contacted.

VI. PUBLIC PARTICIPATION

A Drinking Water Revolving Fund Design & Engineering Grant was received from the Colorado Water Resources & Power Development Authority for the design of the treatment facility. Additional funding for the construction of the proposed project is expected to be obtained through a loan from the same Drinking Water Revolving Fund program. A water rate increase of 13% went into effect on February 1, 2019. Water assessment revenues will only increase 4% because roughly 9% of the increase will be used to offset the loss of property tax revenues that are no longer being levied by the

District.

During a public board meeting to be held at 2160 B Street, Colorado Springs, CO 80906, on April 17, 2019 at 3:00 PM, a public hearing for the proposed centralized water treatment project was held to solicit public input. The public did not have any questions or feedback regarding the environmental assessment. A copy of the public notice for the hearing, the sign-in sheet, and the meeting minutes can be found in Appendix D.

VII. REFERENCE DOCUMENTS

The following documents can be referenced for additional information related to the project.

- A. Stratmoor Hills Water District, Centralized Water Treatment Project Needs Assessment, July, 27, 2018.
- B. U.S. Fish & Wildlife Service, IPaC Resource List. (See Appendix B).
- C. Office of Archeology and Historic Preservation, SHWD Centralized Water Treatment File Search No. 21490 Letter, October 24, 2018. (See Appendix B).
- D. El Paso County Public Health, *Regulations of the El Paso County Board of Health*, Chapter 5 Air Quality Regulations, May 23, 2012.
- E. El Paso County, *Land Development Code*, January 9, 2018.
- F. El Paso County, *Engineering Criteria Manual*, December 13, 2016.
- G. City of Colorado Springs, *Drainage Criteria Manual Volume 1*, May 2014.
- H. City of Colorado Springs, *Drainage Criteria Manual Volume 2*.
- I. El Paso County, *El Paso County Parks Master Plan*, June 2013.
- J. THK Associates Inc., *Fountain Creek Corridor Restoration Master Plan*, October 18, 2011.

VIII. AGENCIES CONTACTED

Review of the proposed project by interested agencies has occurred. The agencies listed below received a letter with a description of the proposed project and a map of the project area to aid in their review. A review period of 30 days was given to each agency. Of the nine agencies from which review comments were requested, only four agencies provided comments within the allotted 30-day period. The agencies' review comments are found in Appendix C.

- A. U.S. Fish and Wildlife, Drue DeBerry
- B. Historical Society, Steve Turner
- C. U.S. Army Corps of Engineers, Van Truan
- D. Natural Resources Conservation Service, Clint Evans
- E. Colorado Division of Wildlife SE Region, Dan Prenzlowl
- F. Colorado Division of Wildlife Headquarters, Mark Leslie
- G. Colorado State Engineer's Office, Kevin Rein
- H. Colorado Air Pollution Office, Garrison Kaufman
- I. National Park Service, Kate Hammond

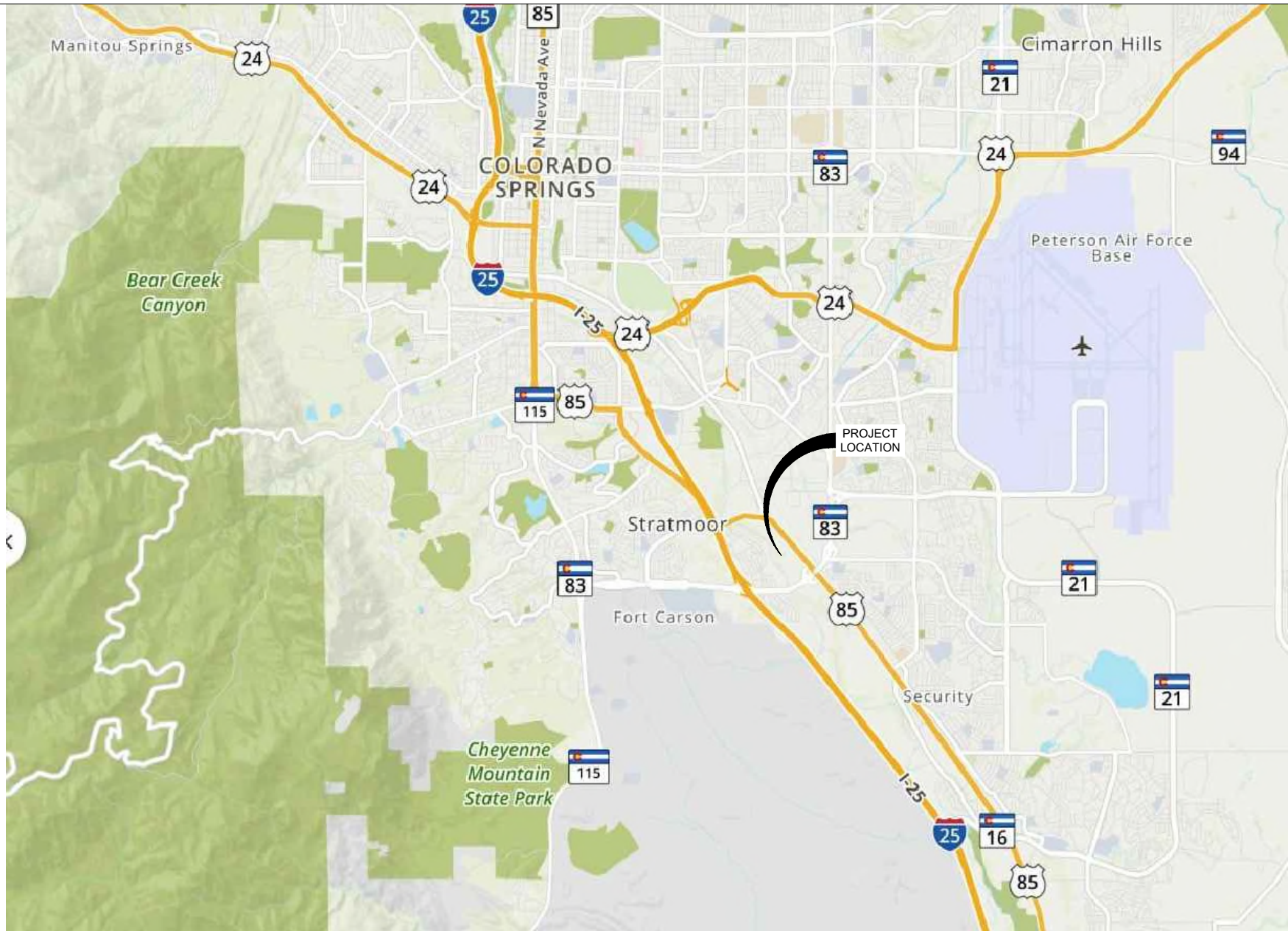
IX. CONCLUSIONS

The agencies contacted for review of the project did not provide any comments with specific issues regarding the project. There were no significant adverse impacts identified in this Environmental Assessment. It is concluded that there are no specific adverse impacts to the environment associated with the proposed Centralized Water Treatment project.

The project will remove potentially harmful pathogens (Cryptosporidium and Giardia) from the water through filtration, and remove the potential carcinogens (PFOS and PFOA) from the environment through ion exchange. The additional water treatment will have a significant positive impact that benefits the District's customers and the environment.

Appendix A

Maps



NO.	REVISIONS	BY	DATE

DRAWN	E. WOODWARD
DESIGNED	E. WOODWARD
APPROVED	M. WARESAK
QA	M. WARESAK

ATTENTION
 LINE IS 2 INCHES
 AT FULL SIZE
 (IF NOT 2" SCALE ACCORDINGLY)

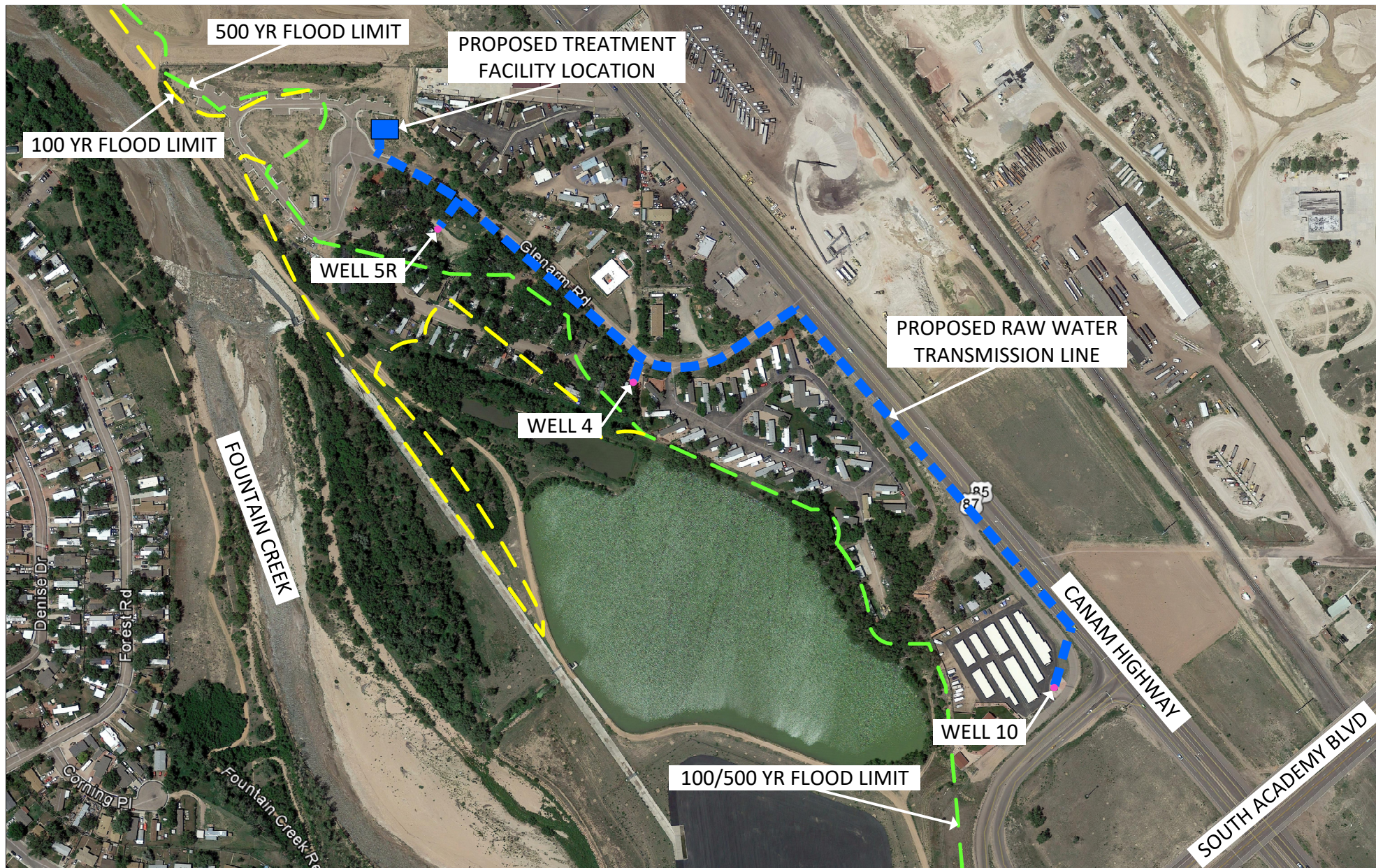
STRATMOOR HILLS WATER DISTRICT

FORSGREN
Associates Inc.
 56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
 PH: 720-214-5884

STRATMOOR HILLS WATER DISTRICT
CENTRALIZED WATER TREATMENT FACILITY LOCATION MAP

PROJECT NO:
04-18-0103
 SHEET NO:
 DATE:
 JUNE 2018
 PAGE NO:

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Wetlands



June 29, 2018

Wetlands

- | | | |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland |  Lake |
|  Estuarine and Marine Wetland |  Freshwater Forested/Shrub Wetland |  Other |
| |  Freshwater Pond |  Riverine |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

P:\Clients\Stratmoor Hills WSDs\04-18-0103 - Centralized Treatment\CAD\PROJECT AREA MAPS\WETLANDS MAP revised 2.4.18.dwg ----- 2/4/2019 2:03 PM

NO.	REVISIONS	BY	DATE
This document or any part thereof in detail or design concept is the property of Forsgren Associates Inc. and shall not be copied without the written authorization of Forsgren Associates Inc.			
DRAWN		E. WOODWARD	
DESIGNED		E. WOODWARD	
APPROVED		M. WARESAK	
QA		M. WARESAK	

ATTENTION
LINE IS 2 INCHES
AT FULL SIZE
(IF NOT 2" - SCALE ACCORDINGLY)

STRATMOOR HILLS WATER DISTRICT

FORSGREN
Associates Inc.
56 INVERNESS DRIVE EAST #112, ENGLEWOOD, CO 80112
PH: 720-214-5884

STRATMOOR HILLS WATER DISTRICT

CENTRALIZED WATER TREATMENT
PROJECT AREA WETLANDS MAP

PROJECT NO: 04-18-0103	
SHEET NO: ATTACHMENT 16	
DATE: JUNE 2018	PAGE NO:

Appendix B

Reference Documents

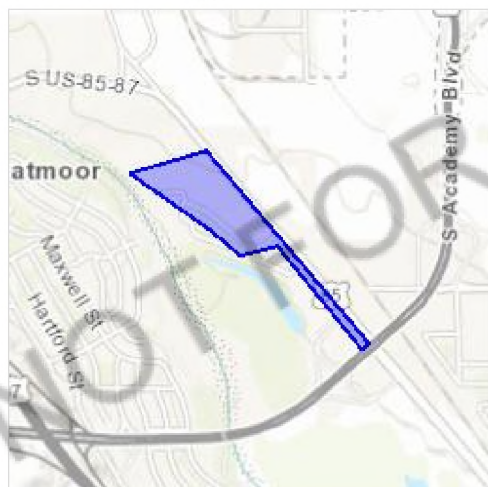
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

El Paso County, Colorado



Local office

Colorado Ecological Services Field Office

☎ (303) 236-4773

📅 (303) 236-4005

MAILING ADDRESS

Denver Federal Center

P.O. Box 25486

Denver, CO 80225-0486

PHYSICAL ADDRESS

134 Union Boulevard, Suite 670
Lakewood, CO 80228-1807

<http://www.fws.gov/coloradoES>

<http://www.fws.gov/platteriver>

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information.
2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME

STATUS

North American Wolverine *Gulo gulo luscus*

Proposed Threatened

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/5123>

Birds

NAME

STATUS

Least Tern *Sterna antillarum*

Endangered

This species only needs to be considered if the following condition applies:

- Water-related activities/use in the N. Platte, S. Platte and Laramie River Basins may affect listed species in Nebraska.

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/8505>Mexican Spotted Owl *Strix occidentalis lucida*

Threatened

There is **final** critical habitat for this species. Your location is outside the critical habitat.<https://ecos.fws.gov/ecp/species/8196>Piping Plover *Charadrius melodus*

Threatened

This species only needs to be considered if the following condition applies:

- Water-related activities/use in the N. Platte, S. Platte and Laramie River Basins may affect listed species in Nebraska.

There is **final** critical habitat for this species. Your location is outside the critical habitat.<https://ecos.fws.gov/ecp/species/6039>Whooping Crane *Grus americana*

Endangered

This species only needs to be considered if the following condition applies:

- Water-related activities/use in the N. Platte, S. Platte and Laramie River Basins may affect listed species in Nebraska.

There is **final** critical habitat for this species. Your location is outside the critical habitat.<https://ecos.fws.gov/ecp/species/758>

Fishes

NAME

STATUS

Greenback Cutthroat Trout *Oncorhynchus clarkii stomias*

Threatened

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/2775>

Pallid Sturgeon *Scaphirhynchus albus***Endangered**

This species only needs to be considered if the following condition applies:

- Water-related activities/use in the N. Platte, S. Platte and Laramie River Basins may affect listed species in Nebraska.

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/7162>

Flowering Plants

NAME

STATUS

Ute Ladies'-tresses *Spiranthes diluvialis***Threatened**

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/2159>

Western Prairie Fringed Orchid *Platanthera praeclara***Threatened**

This species only needs to be considered if the following condition applies:

- Water-related activities/use in the N. Platte, S. Platte and Laramie River Basins may affect listed species in Nebraska.

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/1669>

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

Bald Eagle *Haliaeetus leucocephalus*

Breeds Oct 15 to Jul 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1626>

Burrowing Owl *Athene cunicularia*

Breeds Mar 15 to Aug 31

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/9737>

Golden Eagle *Aquila chrysaetos*

Breeds Jan 1 to Aug 31

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/1680>

Lark Bunting *Calamospiza melanocorys*

Breeds May 10 to Aug 15

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Lewis's Woodpecker *Melanerpes lewis*

Breeds Apr 20 to Sep 30

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9408>

Willow Flycatcher *Empidonax traillii*

Breeds May 20 to Aug 31

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/3482>

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted

Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

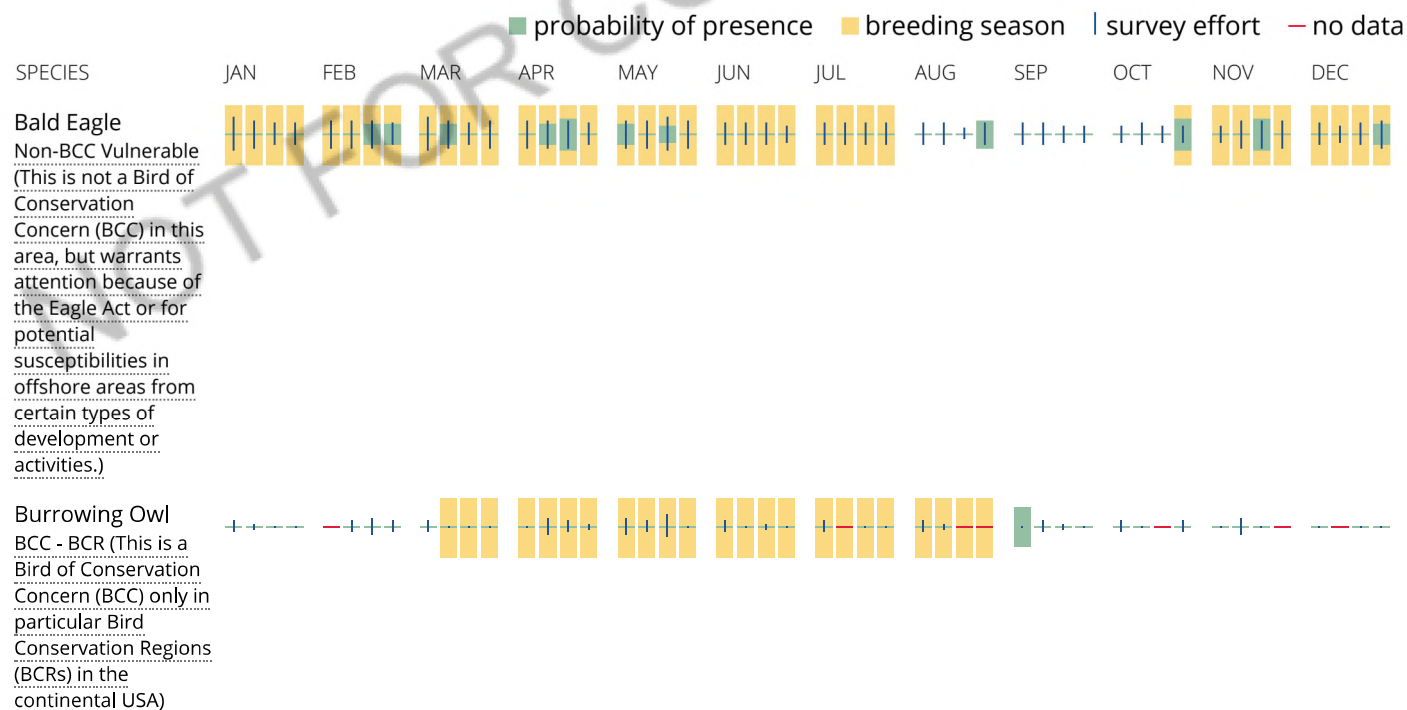
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [E-bird Explore Data Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

Wildlife refuges and fish hatcheries

REFUGE AND FISH HATCHERY INFORMATION IS NOT AVAILABLE AT THIS TIME

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

HISTORY COLORADO
Office of Archaeology and Historic Preservation
1200 Broadway, Denver, Colorado 80203

Claire Koch
Forsgren Associates, Inc.
56 Inverness Drive East, Suite 112
Englewood, CO 80112

October 24, 2018

Re: SHWD Centralized Water Treatment
File Search No. 21490

At your request, the Office of Archaeology and Historic Preservation has conducted a search of the Colorado Inventory of Cultural Resources within 25 feet on the area shown in the provided shapefile, located in the following area:

PM	T	R	S
6th	15S	66W	3

0 sites and 1 surveys were located in the designated area(s).

If information on any district, site, building, structure, or object in the project area was found, detailed information follows the summary. If no properties were found, but surveys are known to have been conducted in the project area, survey information follows the summary. We do not have complete information on surveys conducted in Colorado, and our site files cannot be considered complete because most of the state has not been surveyed for cultural resources. There is the possibility that as yet unidentified cultural resources exist within the proposed impact area.

Our letter should not be interpreted as formal consultation under Section 106 of the National Historic Preservation Act (36 CFR 800) or the Colorado Register of Historic Places (CRS 24-80.1). In the event that there is federal or state agency involvement, please note that it is the responsibility of the agencies to meet the requirements of these regulations.

We look forward to consulting with you regarding the effect of the proposed project on significant cultural resources in accordance with the Advisory Council on Historic Preservation regulations titled "Protection of Historic Properties" or the Colorado Register of Historic Places, as applicable (<http://www.historycolorado.org/oahp/consultation-guidance>).

If you have any questions, please contact the Office of Archaeology and Historic Preservation at (303) 866-3392. Thank you for your interest in Colorado's cultural heritage.

Steve Turner, AIA
State Historic Preservation Officer

*Information regarding significant archaeological resources is excluded from the Freedom of Information Act. Therefore, legal locations of these resources must not be included in documents for public distribution.

Appendix C

Review Agency Responses



OFFICE of ARCHAEOLOGY and HISTORIC PRESERVATION

JAN 18 2019

Claire Koch, E.I.
Project Engineer
Forsgreen Associates, Inc.
56 Iverness Drive East, Ste. 112
Englewood, CO 80112

Re: Environmental Assessment, Stratmoor Hills Water District Centralized Water Treatment Project (HC #75398)

Dear Ms. Koch:

Thank you for the additional information received through email by our office on January 14, 2019 regarding the consultation of the above-mentioned project.

After review of the provided information, we do not object to the defined area of proposed action (APA), as we agree that no State Register listed properties are located in the APA. In accordance with Section 104 of the State Register Act, we agree that the proposed action will not impact any properties of historical significance.

If we may be of additional assistance, please contact Jason O'Brien, Section 106 Compliance Manager, at (303) 866-2673 or Jason.obrien@state.co.us.

Sincerely,

Steve Turner, AIA
State Historic Preservation Officer

United States Department of Agriculture



Natural Resources Conservation Service
Denver Federal Center
Building 56, Room 2604
P.O. Box 25426
Denver, CO 80225

SUBJECT: Farmland Protection Policy Act

January 3rd, 2019

Claire Koch, E.I.
Project Engineer
Forsgren Associates Inc.
56 Inverness Drive East, Suite 112
Englewood, CO 80112

RE: Environmental Assessment, Stratmoor Hills Water District Centralized Water Treatment Project

Dear Ms. Koch,

The Farmland Protection Policy Act (FPPA) is intended to minimize the impact federal programs have on the unnecessary and irreversible conversion of farmland to non-agricultural use. It assures that to the extent possible federal programs are administered to be compatible with state, local units of government, and private programs and policies to protect farmland.

For the purpose of the FPPA, farmland includes prime farmland, unique farmland, and land of statewide or local importance. Farmland subject to the FPPA requirements does not have to be currently used for cropland. Projects are subject to the FPPA requirements if they may irreversibly convert farmland to non-agriculture use and are completed by a federal agency or with assistance from a federal agency.

Your project occurs within the boundaries of an urbanized area, according to the Urbanized Area Reference Map produced by the United States Census Bureau in 2010, therefore it is not subject to the FPPA. NRCS recommends using accepted erosion control practices throughout all phases of the project's construction.

If you have any further questions, please call at (720) 544-2855.

Thank you,

A handwritten signature in dark ink, appearing to read "T. Riley Dayberry".

T. Riley Dayberry
Asst. State Soil Scientist
thomas.dayberry@co.usda.gov

cc:

Clint Evans – State Conservationist, NRCS, Denver CO
Eugene Backhaus - State Resource Conservationist, NRCS, Denver CO
William Shoup - State Soil Scientist, NRCS, Denver CO

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COLORADO

Parks and Wildlife

Department of Natural Resources

Area 14
4255 Sinton Road
Colorado Springs, CO 80907
P 719.227.5200 | F 719.227.5223

December 29, 2018

Claire Koch, E.I.
Project Engineer
Forsgren Associates Inc.
56 Inverness Drive East, Ste. 112
Englewood, CO 80112

Re: Environmental Assessment, Stratmoor Hills Water District Centralized Water Treatment Project

Dear Mrs. Koch,

Colorado Parks and Wildlife (CPW) has reviewed the proposed Stratmoor Hills Water District Centralized Water Treatment Project located near South Academy Blvd. and Canam Highway. Based both on the location and type of action being proposed, CPW believes impacts to the wildlife resource to be negligible.

We appreciate being given the opportunity to comment. Please feel free to contact Philip Gurule at 719-227-5283 or via email at philip.gurule@state.co.us should you have any questions or require additional information.

Sincerely,

Frank McGee
Area Wildlife Manager

Cc: Philip Gurule, DWM
SE Regional File
Area 14 file



Claire Koch

From: Hackett - CDPHE, Sean <sean.hackett@state.co.us>
Sent: Wednesday, January 16, 2019 8:11 AM
To: Claire Koch
Subject: CDPHE Comments on Stratmoor Hills Water District Centralized WTP

Dear Claire Koch:

The Colorado Department of Public Health and Environment (CDPHE) appreciates the opportunity to comment on this proposal. Please note that the following requirements are not intended to be an exhaustive list and it is ultimately the responsibility of the applicant to comply with all applicable rules and regulations.

CDPHE's Water Quality Control Division (WQCD) has reviewed the project proposal and has determined that the proposed drinking water system may meet the definition of a public water system per Regulation 11 Colorado Primary Drinking Water Regulations. If so, the proposed public water system must meet the requirements of the Colorado Primary Drinking Water Regulations including, but not limited to, receiving design approval from the WQCD prior to commencement of construction.

CDPHE's Air Pollution Control Division has determined that the following provisions of the Colorado Air Quality Control Commission (AQCC) Regulations may apply to the project based on the information provided.

Wastewater projects may use the following chart to estimate VOC and HAPs emissions in order to determine if they are required to submit an APEN under Regulation Number 3.

Pollutant	Emission Factor Lb/MM gallon	Reporting Threshold
VOC	3.49414	1 ton/year OR 2 ton/year
Hexamine	0.41207	250 lbs/year
Perchloroethylene	0.00890	
Benzene	0.22873	
Toluene	0.00267	
Total Xylene	0.00267	
Amonia	19.0000	

Please contact Chip Hancock, Construction Permits Unit Supervisor, at **303-692-3168** if you have any questions about the above calculation.

All businesses in Colorado are subject to AQCC Regulation Number 2 (Odor Emission) and a permit may be required for the installation of odor control equipment. Please refer to AQCC Number 2 for guidance on odor suppression actions. You may also view the complete regulatory language at <https://www.colorado.gov/pacific/cdphe/aqcc-regs>.

In Colorado, land development construction activities (earth moving) that are greater than **25 acres** or more than **six months in duration** require an Air Pollutant Emissions Notice (APEN) from the Division and may be required to obtain an air permit depending on estimated emissions. In addition, a start-up notice must be submitted thirty days prior to beginning a land development project.

Please refer to the website <https://www.colorado.gov/pacific/cdphe/air/index> and click on the "Land Development APEN" to access the land development specific APEN form and "Guidance" for additional information.

If you have any questions regarding Colorado's APEN or air permitting requirements or are unsure whether your business operations emit air pollutants, please call the Small Business Assistance Program (SBAP) at **303- 692-3175** or **303-692-3148**.

Sincerely,

Sean Hackett
Energy Liaison
Colorado Department of Public Health and Environment



COLORADO
Department of Public
Health & Environment

P 303.692.3662 | F 303.691.7702
[4300 Cherry Creek Drive South, Denver, CO 80246](https://www.colorado.gov/cdphe)
sean.hackett@state.co.us | www.colorado.gov/cdphe



U.S. FISH AND WILDLIFE SERVICE	
<input checked="" type="checkbox"/> NO CONCERNS	
<input type="checkbox"/> CONCUR NOT LIKELY TO ADVERSELY AFFECT	
<input type="checkbox"/> NO COMMENT	
For <i>Drue DeBerry</i>	<i>3-5-19</i>
Drue DeBerry	DATE
Colorado and Nebraska Field Supervisor	

2019-F-0301

- no TFE habitat

December 17, 2018

DEC 20 2018

Mr. Drue DeBerry, Colorado Field Supervisor
U.S. Fish and Wildlife Service
Ecological Services
Colorado Field Office
P.O. Box 25486, Denver Federal Center
Denver, Colorado 80225-0486

Re: Environmental Assessment, Stratmoor Hills Water District Centralized Water Treatment Project

Dear Mr. DeBerry,

I am writing this letter to meet the requirements of the National Environmental Policy Act and the Colorado Environmental Review Process for the Stratmoor Hills Water District Centralized Water Treatment project. This process allows U.S. Fish and Wildlife to review the proposed project and provide feedback. A description of the proposed project and maps of the project area are provided for your review.

Stratmoor Hills Water District (the District) owns and operates three wells within the Widefield Aquifer to serve its customers. The three wells are designated as Well No. 4, 5R, and 10. Well No. 4 was reclassified by the Colorado Department of Public Health and Environment (CDPHE) on February 2, 2016 as "Groundwater Under the Direct Influence of Surface Water." Well No. 4 does not currently have surface water treatment capabilities to meet CDPHE and US EPA treatment requirements for this classification. Therefore, the District is not operating Well No. 4. Additionally, perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA) concentration in the raw water are typically below the US EPA health advisory level, but the District had one raw water sample slightly exceed the health advisory level.

The proposed project consists of a centralized treatment facility designed to treat the combined water produced from Wells No. 4, 5R, and 10 to meet surface water standards and remove PFOS and PFOA. Several treatment methods were investigated to meet the surface water filtration requirement including direct filtration, microfiltration, and cartridge filtration. Cartridge filtration was determined to be the most cost effective and was selected as the recommended treatment technology for the new centralized treatment facility. In addition to cartridge filtration, ion exchange technology was selected for PFOS and PFOA removal based on the District's successful use of ion exchange at Well No. 4. Both ultraviolet radiation and chlorination were selected for final treatment and disinfection.

The proposed project involves approximately 3,000 linear feet of 8-inch diameter raw water line installed within public road rights-of-way, a treatment building (approximately 2,000 square feet), and an approximately 50,000-gallon welded steel water storage tank adjacent to the building.

There will be no wastewater discharges to groundwater or surface water for the treatment process. The used cartridge filters will be disposed to a landfill, and the ion exchange resin is single use and will be hauled away and disposed of by the supplier when the resin is exhausted.

The project will improve drinking water quality by meeting the CPDHE log removal requirements for Cryptosporidium, Giardia, and viruses. The project will also reduce PFOS and PFOA to below the EPA health advisory level. The treatment facility will not have any waste discharges.

Please provide review comments to me within thirty days of the receipt of this letter. I can be reached by email at ckoch@forsgren.com, or by phone at 720-214-5884 if you have questions during the review. I look forward to receiving your response.

Respectfully,



Claire Koch, E.I.
Project Engineer

Attachments

Centralized Water Treatment Facility Location Map
Centralized Water Treatment Facility Site Plan

Claire Koch

From: david_hurd@nps.gov on behalf of IMRextrev, NPS <imrextrev@nps.gov>
Sent: Thursday, February 7, 2019 3:15 PM
To: Claire Koch
Subject: Environmental Assessment, Stratmoor Hills Water District Centralized Water Treatment Project

Dear Ms. Koch,

The National Park Service (NPS) would like to thank you for the opportunity to be involved in your project. The NPS has reviewed this project and has no comment at this time.

Regards,

National Park Service
Intermountain Region External Review Team
Serving MT, UT, WY, CO, AZ, NM, OK, TX
imrextrev@nps.gov

Appendix D

Public Hearing

NOTICE OF PUBLIC HEARING
FOR STRATMOOR HILLS WATER DISTRICT

COLORADO SPRINGS, COLORADO

Date: April 17, 2019
Time: 3:00 PM
Location: Stratmoor Hills Fire District
Address: 2160 B Street
Colorado Springs, CO 80906
Topic: Water Treatment Plant Facility

A public hearing will be conducted for informing citizens and soliciting public input, written or oral, regarding the Stratmoor Hills Water Treatment Plant and Project Needs Assessment (PNA). The PNA is a report detailing the project consisting of the construction of a water treatment plant, associated pipelines, and the recoating of an existing water storage tank. Treatment alternatives evaluated in the PNA included direct filtration, microfiltration and cartridge filtration. The report is being submitted to the Colorado Department of Public Health and Environment (CDPHE) to qualify Stratmoor Hills Water Treatment Plant for a State Revolving Fund Loan.

The total project cost is estimated at \$2,990,000. A water rate increase of 13% went into effect on February 1, 2019 to supplement the costs of the project.

The Environmental Assessment identified no significant adverse environmental impacts as a result of the proposed project.

Copies of the Project Needs Assessment and Environmental Assessment are available for public review prior to the Public Hearing at the following location:

Stratmoor Hills Water District Office
1811 B Street
Colorado Springs, CO 80906

The point of contact for the Stratmoor Hills Water Treatment Plant is:
Kirk Medina, District Manager, 719-576-0311

Dated this 13th day of March, 2019.

STRATMOOR HILLS WATER DISTRICT

By: /s/ Gretchen Kasameyer
Gretchen Kasameyer, Secretary/Treasurer

Board of Directors Regular Meeting
Stratmoor Hills Water District
April 17, 2019

RECORD OF PROCEEDINGS

The Regular Meeting of the Board of Directors, held Wednesday, April 17, 2019, was called to order by President Dianne Cooper, at 3:01 PM.

Present: President Dianne Cooper, Vice President Tom Wehrkamp Secretary/Treasurer Gretchen Kasameyer, Director Joann Sanderson and Director Howard Swain.

Absent: None

Staff: District Manager Kirk Medina

Public: Jim Raughton, Gary Barber

Approval of Minutes

Motion was made by Director Wehrkamp, seconded by Director Sanderson, to approve the minutes from the March 20, 2019 Regular Meeting. All ayes.

Approval of Agenda

Motion was made by Director Wehrkamp, seconded by Director Sanderson, to approve the agenda for the April 17, 2019 meeting as presented. All ayes.

Public Comment

None.

Unfinished Business

None.

New and Miscellaneous Business

W-1. Public Hearing Regarding the Construction of a Water Treatment Plant (Informational Item)

A public hearing was conducted to inform citizens and solicit public input regarding the Stratmoor Hills Water Treatment Plant project. Mr. Medina described the major components of the project and explained that the total project cost is estimated at \$2,990,000. He stated that the recoating of an existing water storage tank will be included in the project. He explained that the Environmental Assessment conducted by Forsgren and Associates showed that there would be no adverse environmental impacts resulting from this project. He advised the Board that the proposed water treatment plant would allow the District to meet any current drinking water standards and reminded them that if regulations change, additional treatment could someday be needed. There were no questions from the public.

W-2. Purchase of Property for Water Treatment Facility (Action Item)

Mr. Medina introduced Mr. Jim Raughton to the Board and thanked him for attending the meeting. He stated that the property owned by Golden Square Development at the bottom of Glenarm Road would be ideal for the construction of a water treatment plant. He stated the he and Mr. Raughton have agreed on a fair market value for the property and how an exchange for the equivalent of a 4" water - master meter connection fee (in lieu of cash) was mutually agreed upon. He pointed out that the Water District would also pay for the Stratmoor Hills Sanitation District wastewater connection fee that would be needed to expand the development. He then introduced Mr. Gary Barber, a licensed real estate broker who went over the agreement with the Board. Mr. Barber explained that the Board would be making an offer for the purchase of land and the seller, would have up to seven days to accept the offer. He went over all of the terms defined in Exhibit C of the agreement. Director Kasameyer questioned when the deed would be delivered and Mr. Barber explained that it would be at closing. He also said that closing would be approximately 30 days after execution of the agreement. There was additional discussion regarding the cost for 30 water meters that would be provided by the District and how the water mains would remain private. Mr. Raughton explained that he originally paid to have the mains installed and that he has no problem maintaining ownership. He also shared his vision to develop an agricultural village on his property and he trusts that the District's new management will work with him to make this project fit into his development. President Cooper pointed out that this has become a partnership that will last a long time. Director Kasameyer moved to adopt Resolution No. 2019-04 authorizing the purchase of property from Golden Square Development, LLC as described in the agreement presented. Second provided by Director Wehrkamp. All ayes.

Manager's Report

Mr. Medina reported:

- That he will be tracking water meter replacements and 811 Dig Tickets more closely by adding two more charts to the monthly Operations Report.
- The District received roughly 10 payments from a processing center in Texas that had to be refunded because they were sent to us by mistake.
- The Water Tower main replacement project is scheduled to begin in two weeks. He explained how the District's easement will require that the main remain in the same location. He added that the fence between the two properties in Clover Circle West did not line up with the property line.
- He would be attending the Arkansas River Basin Water Forum next week in Pueblo.

Safety Committee Report

Director Wehrkamp reported that hearing protection and hardhat use was discussed at the meeting held on Thursday, April 11, 2019.

Financial Reports

Mr. Medina reported that revenues are at 27% of budget projections, primarily because tap fees are above normal for this time of year. He pointed out that expenditures are only at 16%. An Electronic Payment Report was handed out at the meeting and President Cooper explained that she wanted the Board to review these payments so they can be discussed at the next meeting. She explained that two Board members sign checks that go out but electronic payments are not necessarily seen by the Board. She wants to make sure that the Board reviews these payments. Director Wehrkamp moved to approve the March 2019 financial report. Second provided by Director Kasameyer. All ayes.

Executive Session

President Cooper asked the Directors if they felt the need to go into executive session to discuss the District Manager's annual performance review. It was determined that no discussion was needed because they were all comfortable with their written responses. The Board did not go into executive session.

Other Business

None

Adjournment

With no further business to come before the Board of Directors, Director Wehrkamp made a motion to adjourn the meeting at 4:51 PM. Second provided by Director Kasameyer. All ayes.

Gretchen Kasameyer
Secretary/Treasurer

Dianne Cooper
President

BOARD MEETING ATTENDEES

DATE: ~~March 20, 2019~~
April 17, 2019

Procedure for addressing the Board during Public Comment

- Receive recognition from the President
- Stand up
- State your Name and Property Street Address in the District
- Present your comments in **2 minutes or less**. This should allow everyone an opportunity to speak.

There will be no discussion. PLEASE TURN YOUR CELL PHONE OFF OR DOWN

Enter the TOPIC you wish to address during Public Comment						
	Name	District Resident/ Property Owner? (Yes or No)	Stratmoor Address	WATER	SANITATION	FIRE
1	Jim RAUGHTON	YES	3115 GLENHARM RD	✓	✓	✓
2	Gary Barker	NO		✓		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						

Finding of No Significant Impact



COLORADO

Department of Public
Health & Environment

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

FINDING OF NO SIGNIFICANT IMPACT

TO ALL INTERESTED GOVERNMENTAL AGENCIES AND PUBLIC GROUPS:

As required by guidelines for the preparation of environmental impact statements, an environmental review has been performed on the proposed action below:

Project: Stratmoor Hills Water Treatment Plant

Location: Stratmoor Hills, El Paso County

Project No.: 170361-D

Total Cost: \$2,990,000

Project Description

The proposed project consists of constructing a new treatment facility, constructing a waterline to convey raw well water to the treatment facility, and painting an existing water storage tank. The project will be funded by a Drinking Water Revolving Fund loan in the amount of \$2,990,000 at an interest rate of no more than 1.5%. The project is not anticipated to increase the user rates.

The review process did not indicate that significant environmental impacts would result from the proposed action. Consequently, a preliminary decision not to prepare an Environmental Impact Statement (EIS) has been made. The action is taken on the basis of a careful review of the engineering report, environmental assessment, and other supporting data that are on file in the Water Quality Control Division of the Colorado Department of Public Health and Environment, and are available for public review upon request.

Comments supporting or disagreeing with this decision may be submitted for consideration to:

Matt Alms, P.E.
Environmental Compliance Specialist
Colorado Department of Public Health and Environment
WQCD-GLU-B2
4300 Cherry Creek Drive South
Denver, CO 80246-1530

After evaluation of the comments received, the Division will make a final decision; however, no administrative decision will be taken on the project for at least 30 calendar days after publication of the Finding of No Significant Impact.





COLORADO
Department of Public
Health & Environment

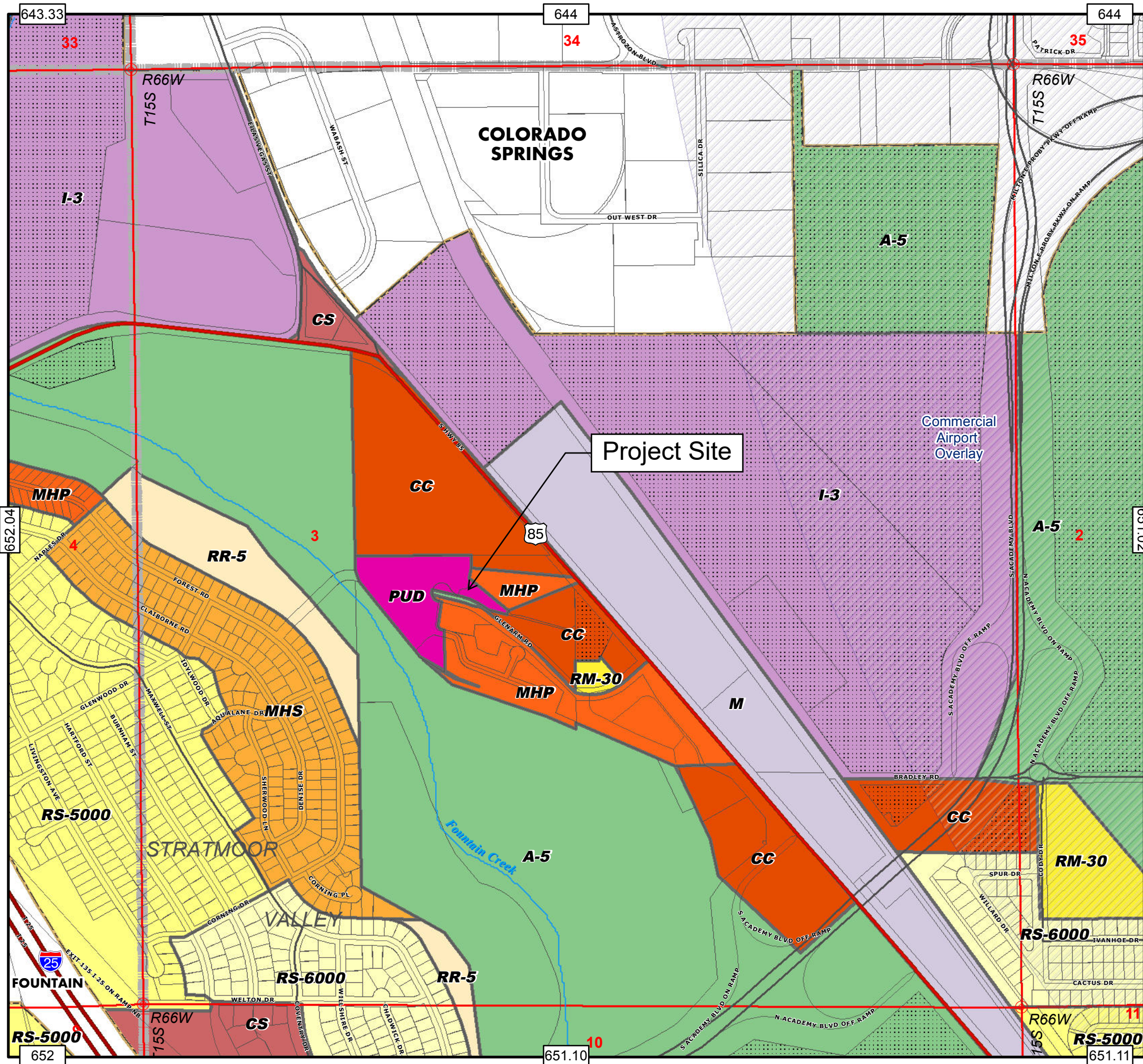
Dedicated to protecting and improving the health and environment of the people of Colorado

Dated this 9th day of August, 2019.

Patrick J. Pfaltzgraff
Division Director
Water Quality Control Division



El Paso County Zoning Map



Zone Map 651.03

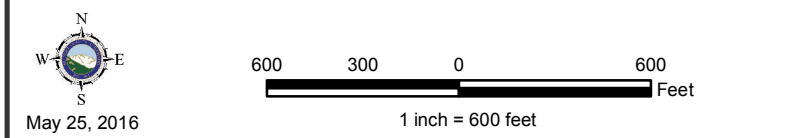
- El Paso County -
Development Services Department

Zoning Designations

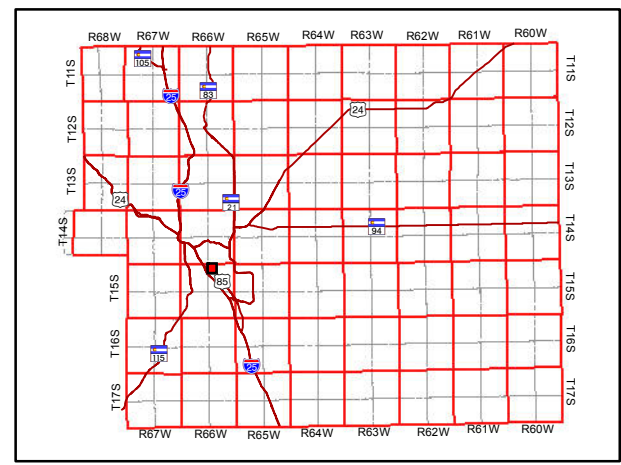
RS-20000: Residential Suburban (20,000 sq. ft.)	F-5: Forest & Recreation (5 acres)
RS-6000: Residential Suburban (6,000 sq. ft.)	PUD: Planned Unit Development
RS-5000: Residential Suburban (5,000 sq. ft.)	CC: Commercial Community
RM-12: Residential Multi-Dwelling (12 DU/acre)	CR: Commercial Regional
RM-30: Residential Multi-Dwelling (30 DU/acre)	CS: Commercial Service
RR-0.5: Residential Rural (0.5 acres)	I-2: Limited Industrial
RR-2.5: Residential Rural (2.5 acres)	I-3: Heavy Industrial
RR-5: Residential Rural (5 acres)	A-5: Agricultural (5 acres)
R-T: Residential - Topographic	A-35: Agricultural (35 acres)
MHP: Mobile Home Park	C-1: ** Commercial
MHP-R: Mobile Home Park, Rural	C-2: ** Commercial
MHS: Mobile Home Subdivision	M: ** Industrial
RVP: Recreational Vehicle Park	R-4: ** Planned Development

** Indicates an obsolete designation

Supporting Data		
Highways	Sections	Incorporated Cities
Major Roadways	Parcels	Zone Map Boundary
Creeks - Perennial	Military	Zoning Overlay
Creeks - Intermittent	Pike National Forest	Special Uses
Section Corner Nodes		



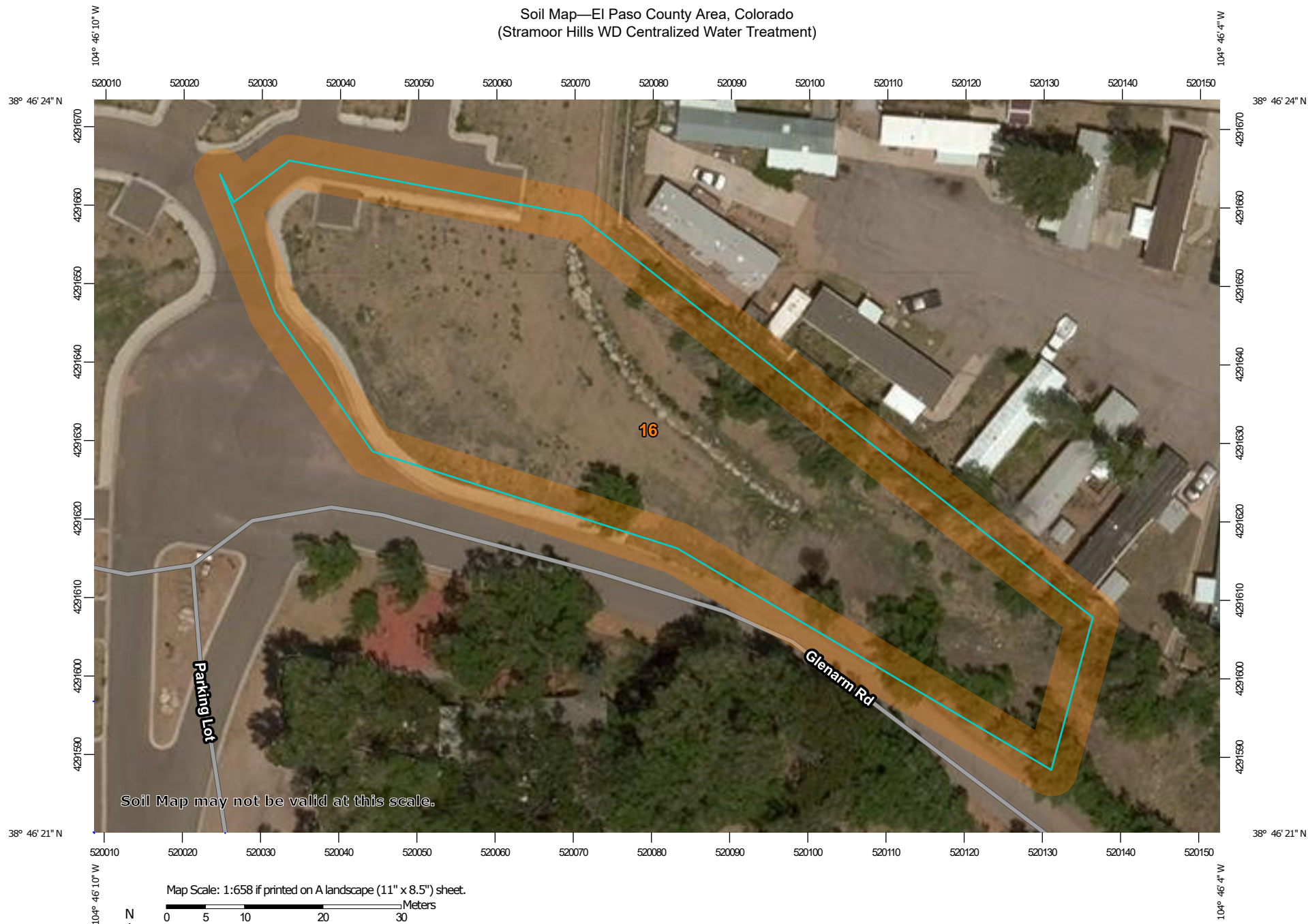
Vicinity Map



COPYRIGHT 2016 by the Board of County Commissioners, El Paso County, Colorado. All rights reserved. No part of this document or data contained hereon may be reproduced; used to prepare derivative products; or distributed without the specific written approval of the Board of County Commissioners, El Paso County, Colorado. This document was prepared from the best data available at the time of plotting and is for internal use only. El Paso County, Colorado, makes no claim as to the completeness or accuracy of the data contained hereon.

NRCS Soil Map

Soil Map—El Paso County Area, Colorado
(Stramoor Hills WD Centralized Water Treatment)



Map Scale: 1:658 if printed on A landscape (11" x 8.5") sheet.

0 5 10 20 30 Meters

0 30 60 120 180 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

6/26/2019
Page 1 of 3

Soil Map—El Paso County Area, Colorado
(Stramoor Hills WD Centralized Water Treatment)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: El Paso County Area, Colorado

Survey Area Data: Version 16, Sep 10, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 3, 2014—Jun 17, 2014

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
16	Chaseville gravelly sandy loam, 1 to 8 percent slopes	0.8	100.0%
Totals for Area of Interest		0.8	100.0%

Well No. 4 Permit

MAY 2 1963

Form E (Rev.)
5-62

SEP 2 8 1963

STATE OF COLORADO

DIVISION OF WATER RESOURCES
OFFICE OF THE STATE ENGINEER
GROUND WATER SECTION

APR 15 1963

GROUND WATER SECTION
COLORADO
STATE ENGINEERIndex No. 635
IDWD 2-10
Use Municipal
Registered 4-15-63

LOG AND HISTORY OF WELL

PERMIT NO. 3771-F

916294

Driller Joe Coniff Company Lic. No. 56Owner Stratmoor Hills Water Dist.Street 311 Catalina Dr. City Colo. Spgs., Colo.

Tenant _____

Use of Water MunicipalOn or By Location of well No. _____
(description of site or land) Acres _____Date Started 2-4, 1963Date Completed 2-15, 1963Yield 1800 GPM or _____ CFS

WELL DESCRIPTION:

Depth to Water 8 ft. Total Depth 49 ft.
(measured from ground surface)Hole Diameter { from 0 ft. to 49 ft., 30 in.
from _____ ft. to _____ ft., _____ in.
from _____ ft. to _____ ft., _____ in.

TEST DATA:

How Tested X Pump or _____ BailedDate Tested 2-20, 1963 Length 17 hrs.Rate _____ GPM Drawn Down 25 ft.

PUMP DATA:

Pump Type _____ Outlet Size _____ in.

Driven by _____ HP _____

CASING RECORD:

Plain Casing

Above level

Size 16", Kind galv from 6 ft. to 29 ft.

Size _____, Kind _____ from _____ ft. to _____ ft.

Size _____, Kind _____ from _____ ft. to _____ ft.

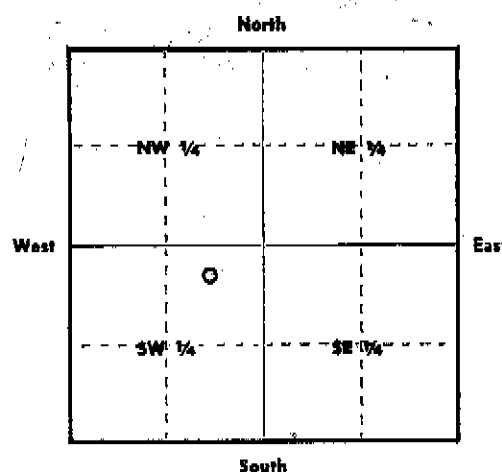
Perforated Casing

Size 16", Kind galv from 29 ft. to 49 ft.

Size _____, Kind _____ from _____ ft. to _____ ft.

Size _____, Kind _____ from _____ ft. to _____ ft.

WELL LOCATION

El Paso CountyNE $\frac{1}{4}$ of SW $\frac{1}{4}$ of Sect. 3Twp. 13S, Rge. 66W, 6 PM

ABOVE DIAGRAM REPRESENTS ONE FULL SECTION. LOCATE WELL ACCURATELY IN SMALL SQUARE REPRESENTING 40 ACRES.

or

If the above is not applicable fill in:

No. _____ Street _____

City or Town _____

or

Lot _____, Block _____

Stratmoor Hills Subdivision
(include filing or number)

TO BE MADE OUT IN QUADRUPLICATE:

Original Blue and Duplicate Green Copy must be filed with the State Engineer within 30 days after well is completed. White copy is for the Owner and Yellow copy for the Driller.

WELL LOG

Ground Elevation _____ (if known)

How Drilled Rotary-Drill Method

[illegible]

(if more space is required use additional sheet)

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is true and correct to the best of my knowledge and belief.

Signed Joe Conliff Co.

By F. W. Byrum

Dated

4-11-62

19

Form C (Rev.)

3-62/5M

(Use Indelible Pencil or Typewriter)

STATE OF COLORADO

APPLICATION FOR USE OF GROUND WATER

GROUND WATER SECTION

Well #2

Applicant Stratmoor Hills Water Dis't.

311 Catalina Dr.

P.O. Address Colorado Springs, Colo.

Quantity applied for 1800 gpm or
AF Storage

Used for Municipal Purposes

on/at Location of well
(legal description of land site)

Total acreage irrigated and other rts.

ESTIMATED DATA OF WELL

Hole size: 30 in. to 40 ft.
in. to ft.

Casing Plain 16 in. from 0 to 13 ft.
in. from to ft.

Open or Perf. 16 in. from 13 to 40 ft.
in. from to ft.

PUMP Outlet
DATA: Type Turbine HP 50 Size 6"

Use initiation date Oct. 10 1962.
(Use Supplemental pages for additional data)

Replacement for R-7502

THIS APPLICATION APPROVED

PERMIT NO. 3771-F
ISSUED:
DATE Sept 26 1962

Driller to furnish Log and History (Form E)
within 30 days after completion of well.

LOCATION OF WELL

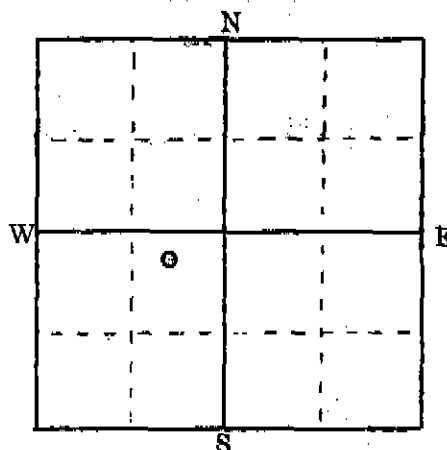
County El Paso

NE 1/4 of SW 1/4 of Sect. 3, Twp. 13 S

Rge. 66W, 6 P.M. OR

Street Address or Lot & Block No.

Town or Subdivision



Locate
well in
40 acre
(small)
square
as near
as possible.

Large square
is one section.

\$25.00 fee required for uses other
than Domestic or Livestock.

Stratmoor Hills Water Dis't. Ck. #420

Applicant Stratmoor Hills Water Dis't.

Agent or

Driller Joe Coniff Co. No. 56

2522 E. Hiway 24

Address Colorado Springs, Colo.

NOTE - SATISFACTORY COMPLETION REQUIRED FOR APPROVAL OF APPLICATION

Joe Coniff Company

2522 East Highway 24 • Phone 632-5317

Colorado Springs, Colorado

Sept. 13, 1963

RECEIVED

SEP 16 1963
GROUND WATER ST.
COLORADO
STATE ENGINEER

Office Of The State Engineer
Ground Water Administration
232 State Services Bldg.
Denver 3, Colorado

Att: Mr. George W. Colburn

Gentlemen:

Re: Telephone conversation--Subject Stratmoor
Hills Water District.

On our permit #3771-F we asked for 1800 GPM and
thru a typographical error on our part the quantity
asked for was 800 GPM.

I am sending you a copy of the test which was made
at the time the well was tested at 1800 GPM.

The drilling permit shows where the yield was
1200 GPM instead of 1800 GPM .

On the well location please correct the Twp. No.
from 15S to 13S.

Please make these revisions and send us a copy
for our files and also a copy for Stratmoor Hills
files.

On the registration #7052 please cover the amount
of water asked for and also show the additional
amount in new well.

Please find check for \$1.00 for correcting these files.

Yours very truly,

Joe Coniff Company

by 
Joseph A. Coniff

JAC/wb
Enc

Joe Coniff Company

2522 East Highway 24 • Phone MEIrose 2-5317

Colorado Springs, Colorado

RECEIVED

SEP 16 1963
GROUND WATER SECT.
COLORADO
STATE ENGINEER

DATE 2-15-63

CUSTOMERS NAME Stratmoor Hills Water Dist.

ADDRESS 311 Catalina Dr.
Colorado Springs, Colo.

PERMIT NO. 3771-F

WELL

CASING SIZE 16 IN. DRAW DOWN WITHOUT ORFICE FT.
WELL DEPTH 49 FT. DRAW DOWN WITH ORFICE AT 6" Orfice 1200 GPM 25 FT.
DEPTH IN SHALE 4 FT. 48 GAL. PER FT. DRAW DOWN
DEPTH TO TOP OF SHALE 43 FT. 25 1200 GPM
STATIC WATER LEVEL 8 FT. GPF DRAW DOWN 48 X 35 FT. USABLE WATER
USABLE WATER 35 FT.

TOTAL AMOUNT OF WATER IN WELL 1800 GPM

TEST MADE BY Joe Coniff

Well No. 5R Permit

Form no.
GWS - 31
11/90

"WELL CONSTRUCTION AND TEST REPORT"
STATE OF COLORADO, OFFICE OF THE STATE ENGINEER

for office use only

RECEIVED

SEP 14 2012

WATER RESOURCES
STATE ENGINEER
COLO

1. WELL PERMIT NUMBER 77354-F

2. OWNER NAME(S): STRATMOOR HILLS
Mailing Address: 125 DECKERS DRIVE
City, St. Zip: PENROSE, CO. 81240
Phone: 719-276-6847

3. WELL LOCATION AS DRILLED: 1/4 1/4, Sec.: Twp.: Range:
DISTANCES FROM SEC. LINES ft. from Sec. line, and ft. from Sec. Line OR
(south or north) (east or west)
SUBDIVISION: LOT: BLOCK: FILING (UNIT):
STREET ADDRESS AT WELL LOCATION:

4. GROUND SURFACE ELEVATION: ft. DRILLING METHOD AIR PERCUSSION
DATE COMPLETED: 6/2/2011 TOTAL DEPTH: 45 ft. DEPTH COMPLETED: 45 ft.

5. GEOLOGIC LOG:
Depth Description of Material (Type, Size, Color, Water location)

0-4 BROWN TOPSOIL
4-16 TAN CLAY
16-22 SAND AND CLAY
22-40 SAND AND GRAVEL
40-45 GRAY SHALE

18" DIAMETER STEEL PLACED TO BOTTOM
AND PULLED AS SILICA SAND, BENTONITE AND
CEMENT WERE ADDED

REMARKS: WATER 22'

6. HOLE DIAM. (in.) From (ft) To (ft)
18" 0 45'

7. PLAIN CASING
OD (in) Kind Wall Size From (ft) To (ft)
14' STEEL 250 1+ 20'
14' STEEL 250 40 45'

PERF. CASING Screen Slot Size 3/32"
14' STAIN 0.25 20' 40'
LESS
STEEL

8. FILTER PACK 9. PACKER PLACEMENT
Material: SILICA SAND Type: BENTONITE
Size: 8-12
Interval: 45-20 Depth: 20'-15'

10. GROUTING RECORD:
Material Amount Density Interval Placement
CEMENT 40 15.3 0-15' PUMPED
SACKS

11. DISINFECTION, Type CHLORINE Amt. Used: 1 GALLON, WATER INJ., 18 HRS

12. WELL TEST DATA ☐ Check box if test data is submitted on supplemental form

TESTING METHOD: AIR LIFT

Static Level: 18 ft. Date/Time Measured: 06/02/2011 Production Rate 900 gpm.
Pumping Level: 45 ft. Date/Time Measured: 06/02/2011 Test Length (hrs) 10.00
Remarks:

13. I have read the statements made herein and know the contents thereof, and that they are true to my knowledge.
(pursuant to section 24-4-104 (13)(a) C.R.S., the making of false statements herein constitutes perjury in the second degree and is
punishable as a class 1 misdemeanor.

CONTRACTOR: ARKANSAS VALLEY DRILLING

PHONE: 719-276-6847

Lic. No.: 1305

Mailing Address: 125 DECKERS DRIVE PENROSE, CO. 81240

Name/Title (please type or print)

Signature

Date

7/19/2011

**OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES**

818 Centennial Bldg., 1313 Sherman St., Denver, Colorado 80203
(303) 866-3581

EXST

WELL PERMIT NUMBER 77354 -F
DIV. 2 WD 10 DES. BASIN MD

APPLICANT

STRATMOOR HILLS WATER DISTRICT
1811 B ST
COLORADO SPRINGS, CO 80906-

(719) 576-0311

APPROVED WELL LOCATION

EL PASO COUNTY
NE 1/4 SW 1/4 Section 3
Township 15 S Range 66 W Sixth P.M.

DISTANCES FROM SECTION LINES

2243 Ft. from South Section Line
2010 Ft. from West Section Line

UTM COORDINATES (Meters, Zone: 13, NAD83)

Easting: 520094 Northing: 4291561

PERMIT TO USE AN EXISTING WELL

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

Page 1 of 2

CONDITIONS OF APPROVAL

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not assure the applicant that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-90-137(2) for the use of an existing well completed on 6/2/2011 without a permit, on the condition that this well is operated in accordance with the terms and conditions of the Stratmoor Hills Water District Plan for Augmentation approved by the Division 2 Water Court in consolidated case nos. W-3935 and W-4237, and subsequent case nos. 91CW24 and 08CW44. If this well is not operated in accordance with the terms of said decrees, it will be subject to administration including orders to cease diverting water.
- 4) Approved for the use of the well completed on 6/2/2011 to be used as a replacement of an existing well, permit no. 3772-F (decreed by the Division 2 Water Court as Stratmoor well no. 5 in case no. W-3172). The old well under permit no. 3772-F must be plugged and abandoned in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report form must be submitted within sixty (60) days of abandonment of the old well. Permit no. 3772-F has been canceled by order of the State Engineer.
- 5) This well is subject to administration by the Division Engineer in accordance with applicable decrees, statutes, rules, and regulations.
- 6) The use of ground water from this well is limited to municipal use within the service area boundaries of the Stratmoor Hills Water District.
- 7) The pumping rate of this well shall not exceed 950 GPM, as decreed for Stratmoor well no. 5 in case no. W-3172.
- 8) The combined amount of ground water to be appropriated from the Widefield aquifer (subject to the Widefield Aquifer Management Plan) by this well no. SH5 and all other Stratmoor Hills Water District completed for production from the Widefield aquifer shall not exceed 120 acre-feet per month, 380 acre-feet in any successive four month period, and 700 acre-feet per year. If "effective recharge" is demonstrated pursuant to the Widefield Aquifer Management Plan, then an additional 570 acre-feet per year could be pumped up to a maximum of 1,270 acre-feet per year. The total annual appropriation by all Stratmoor Hills Water District wells from all approved sources of ground water is limited to 1,270 acre-feet, pursuant to the plan for augmentation decrees referenced in Condition of Approval No. 3 above.
- 9) A metering method must be established for this well pursuant to the Amended Rules Governing the Measurement of Tributary Ground Water Diversions Located in the Arkansas River Basin

APPROVED
JWB

State Engineer

DATE ISSUED 07-15-2013

By

EXPIRATION DATE 07-15-2014

Receipt No. 3657014

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

CONDITIONS OF APPROVAL

- 10) The owner shall mark the well in a conspicuous place with well permit number(s), name of the aquifer, and court case number(s) as appropriate. The owner shall take necessary means and precautions to preserve these markings.
- 11) This well shall be more than 600 feet from any existing well, completed in the same aquifer, that is not owned by the applicant, except for those wells for which a 600-foot well spacing waiver statement was obtained from its owner, or for which the owners of record were sent notice in accordance with the provisions of CRS 37-90-137(2)(b)(II)(A), and for which no response was received by the CDWR within the time set forth in said notice.
- 12) This well shall be not more than 200 feet from the actual location of well permit no. 3772-F, and not more than 200 feet from the location specified on this permit.

NOTE: The well structure I.D.# is 1005569, and the owner's well designation is well no. 5 (SH5).

NOTE: The decreed location of Stratmoor well no. 5 was determined to be more than 200 feet (approximately 417 feet) from the actual location of the well (permit no. 3772-F) as field inspected by personnel of the CDWR, and the location of this new replacement well is approximately 548 feet from the decreed location. Application should be made to the Division 2 Water Court to correct the decreed well location.

NOTE: This permit will expire on the expiration date unless a pump is installed by that date. A Pump Installation and Test Report (GWS-32) must be submitted to the Division of Water Resources to verify the pump has been installed. A one-time extension of the expiration date may be available. Contact the DWR for additional information or refer to the extension request form (GWS-64) available at: <http://www.water.state.co.us/pubs/forms.asp>

NOTICE: This permit has been approved subject to the following changes: the approved well pumping rate and annual amount of ground water to be appropriated were obtained from the referenced water court decrees. You are hereby notified that you have the right to appeal the issuance of this permit, by filing a written request with this office within sixty (60) days of the date of issuance, pursuant to the State Administrative Procedures Act. (See Section 24-4-104 through 106, C.R.S.)

WZ, 7/15/13

COLORADO DIVISION OF WATER RESOURCES DEPARTMENT OF NATURAL RESOURCES 1313 SHERMAN ST., RM 518, DENVER, CO 80283 phone - (303) 866-3567 fax - (303) 866-3561 tlc - (303) 866-3560 http://dnr.state.co.us		RECEIVED RECEIVED Form GWS-45 (07/2008) SEP 14 2012 APR 24 2013 WATER RESOURCES STATE ENGINEER COLO.	
GENERAL PURPOSE Water Well Permit Application Review instructions on reverse side prior to completing form. This form must be completed in black or blue ink or typed.		WATER RESOURCES STATE ENGINEER	
1. Applicant Information Name of applicant Stratmoor Hills Water District Address 1811 B Street City Colorado Springs State CO Zip 80906 Telephone # (719) 576-0811		6. Use Of Well (check applicable boxes) Attach a detailed description of uses applied for: <input type="checkbox"/> Industrial <input type="checkbox"/> Cooling Systems <input checked="" type="checkbox"/> Municipal <input type="checkbox"/> Geothermal (production or injection) <input type="checkbox"/> Irrigation <input type="checkbox"/> Other (describe): <input type="checkbox"/> Commercial	
2. Type Of Application (check applicable boxes) <input type="checkbox"/> Quasi-steady state <input type="checkbox"/> Change source (aquifer) <input checked="" type="checkbox"/> Replace existing well <input type="checkbox"/> Reapplication (expired permit) <input type="checkbox"/> New existing well <input type="checkbox"/> COGCC well <input type="checkbox"/> Change or increase use <input type="checkbox"/> Other:		7. Well Data (proposed) Maximum pumping rate 250 gpm Annual amount to be withdrawn 600 acre-feet Well depth 100 feet Widespread	
3. Refer To (if applicable) Well permit # 3772-F Well location map Disposition of permit Well #5		8. Land On Which Ground Water Will Be Used Legal Description (may be provided as an attachment) Stratmoor Hills subdivision	
4. Location Of Proposed Well (important! See instructions) County El Paso NE NW SW W Section 3 Township 15 Range 66 Elevation 6 PM Distance of well from nearest boundary (feet) and property line N. from <input type="checkbox"/> N <input type="checkbox"/> S E from <input type="checkbox"/> E <input type="checkbox"/> W NE from <input type="checkbox"/> NE <input type="checkbox"/> SE SW from <input type="checkbox"/> SW <input type="checkbox"/> NW		(If used for crop irrigation, attach a soil map that shows irrigated area.) A. Owner B. Owner Stratmoor Hills Water District C. List any other water or water rights used on this land	
For agricultural use only - If the well is located more than 100 feet from the well, the well is not used. 550 feet South direction Well location address (include City, State, Zip) <input checked="" type="checkbox"/> Check if well address is same as in Item 1.		8. Proposed Well Driller License # (optional): 10. Signature Of Applicant(s) Or Authorized Agent The making of false statements herein constitutes perjury in the second degree, which is punishable as a class 1 misdemeanor pursuant to C.R.S. 24-4-104 (1)(b). I have read the statements herein, know the contents thereof and state that they are true to my knowledge. Sign here (print full name of applicant) Gordon Halvorsen Date 5/16/12	
Optional: GPS well location information in UTM format. You must check GPS well for required readings as follows: Elevation (meters) 0520108 Northings 4291617 Eastings 4291617 Well GPS well checked for accuracy? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Office Use Only UTM map north <input type="checkbox"/> Overlaid on <input type="checkbox"/> Stationed on <input type="checkbox"/>	
5. Parcel On Which Well Will Be Located (YOU MUST ATTACH A CURRENT DEED FOR THE SUBJECT PARCEL) A. Legal Description (may be provided as an attachment) see Attached.		Receipt and only NOTE: Had Div. 2 staff review per contents of approval & incorporated some suggested modifications from Doug Hollister. W.B. 7/15/13 WDI Dist 1005569 USM# per field trip 520094E 4291561N	
B. Well ownership SB C. Owner Stratmoor Water Dist.		ACQUISITION YES 2243 55L YES 2016 WSL CIRCOS TOPO MFLR OBS	
D. Well is the only well on the parcel? <input type="checkbox"/> Yes <input type="checkbox"/> No Well 4		Transaction #: 3657014 Date: 9/14/2012 12:42:36 PM Transaction Total: \$100.00 DTC RED W CARD BA \$100.00	

Best Copy Available

DIVISION OF WATER RESOURCES
OFFICE OF THE STATE ENGINEER

BY John Bilisoly

DATE 5/1/2013

TITLE Stratmoor Hills W.D. Reel # 3657014

SHEET 1 OF 1

NOTE: Conversions done using CSWR AquaMap Tool

WDID 1005569 (PN 3772-F ; Stratmoor Well No. 5, W-3172)
Inventoried Loc.: 520116 E & 4291525 N
NE 1/4, SW 1/4, Sec. 3, T. 15S, R. 66W @ 2125' SSL & 2082' WSL

* WDID 1005569 (Repl. loc. drilled 6/2/2011 w/o per.)
Loc. per 10/11/12 field insp.: 520094 E & 4291561 N
NE 1/4, SW 1/4, Sec. 3, T. 15S, R. 66W @ 2243' SSL & 2010' WSL
(*subject well)

Stratmoor Well No. 5, W-3172 decreed loc.
NE 1/4, SW 1/4, Sec. 3, T. 15S, R. 66W @ 1880' SSL & 2820' ESL (2420' WSL)
UTM's per AquaMap conversion are: 520215 E & 4291450 N

WDID 1005641 (PN 19464-T, Colo. Sprgs. Utilities)
Inventoried loc.: 520031 E & 4291457 N
NE 1/4, SW 1/4, Sec. 3, T. 15S, R. 66W @ 1901' SSL & 1802' WSL

WDID 1005931 (Graham Mobile Home park - Jim Raughton well ; PN 15712-R)
Inventoried loc.: 520064 E & 4291584 N
NE 1/4, SW 1/4, Sec. 3, T. 15S, R. 66W @ 2318' SSL & 1912' WSL

WDID 1005383 (Elm Crest Mobile Home Park well - Wes Kennedy ; PN 223843)
Inventoried loc.: 520198 E & 4291659 N
NE 1/4, SW 1/4, Sec. 3, T. 15S, R. 66W @ 2566' SSL & 2353' WSL

- orig. well inventoried loc. & decreed loc. = 417' apart
- Orig. well 3772-F vs. CSU well 19464-T = 359' apart
- New repl. well for 3772-F vs. CSU well 19464-T = 400' apart
- Orig. well 3772-F vs. Graham Mobile Home park well 15712-R = 257' apart
- New repl. well for 3772-F vs. Graham M.H.P. well 15712-R = 123' apart
- Orig. well 3772-F vs. Elm Crest M.H.P. well 223843 = 518' apart
- New repl. well for 3772-F vs. Elm Crest M.H.P. well = 471' apart
- Orig. well 3772-F vs. new repl. well for 3772-F = 138' apart
- new repl. well for 3772-F vs. decreed loc. for 3772-F = 548' apart

COLORADO DIVISION OF WATER RESOURCES FIELD INSPECTION REPORT

Please complete this form in ink

Application Receipt No(s): 3657014DIV 2 WD 10WELL STRUCTURE NO. (IF APPLICABLE): 1005569DATE OF INSPECTION: 10/11/2012PURPOSE OF INSPECTION: LATE REG ☐ OTHER ☒ 600 FT. SPACINGWATER COMMISSIONER NAME: James SwankPHONE NUMBER: (719) 542-3368 or (719) 250-1654

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OCT 16 2012

APPLICANT: STRATMOOR HILLS WATER DISTRICTADDRESS: 1811 B STREETColorado Springs, CO. 80806PHONE: (719) 576-0311 ext.WATER RESOURCES
STATE ENGINEER
COLO

Pers

EXISTING WELL LOCATION:

NE $\frac{1}{4}$, of the SW $\frac{1}{4}$, of Section 3, Township 15 ☐ N or ☒ S, Range 66 ☐ E or ☒ W, 6 P.M.Distance from section line ☐ N or ☐ S, ☐ E or ☐ W, County El PasoOPTIONAL INFORMATION (GPS unit must be set for NAD83, meters, and true north) Zone 12 ☐ or 13 ☐Easting 520116Northing 4291525Mark type of existing well: ☒ drilled, ☐ hand dug, ☐ spring well, ☐ gallery well, ☐ gravel pit, ☐ otherEstimated date well constructed: 2/27/1963Date of first use: 3/11/1963Estimate pumping rate: 280 GPMTotal number of acres in this tract/parcel: acres

Address of property (if different from than the applicant address):

Additional subdivision /parcel information:

Number of non-exempt acres irrigated:

Name of Aug. Plan?

Any other wells located on this property? (yes) how many , (no); permit #, case #, use?

Use of Well:

- ☐ Household use in (indicate how many) single family dwelling(s)
- ☐ Watering of poultry, domestic animals, and livestock – approximately how many head?
- ☐ Watering of livestock only – approximately how many head? Is this a feed lot? ☐ yes ☐ no
- ☐ Estimated area of historical lawn and garden: ☐ Square feet ☐ acre of lawn and garden
- ☐ Fire protection
- ☐ Commercial – drinking & sanitary only? (write details in "comments" section)
- ☒ Other (write details in "comments" section)

☒ YES ☐ NO WERE THE USES CHECKED ABOVE INITIATED PRIOR TO MAY 8, 1972?

NOTE: If ANY CHANGE IN HISTORIC USE OF THE WELL HAS OCCURRED SINCE MAY 8, 1972, please indicate the date(s) the use changed, and discuss this change/expansion of the current or proposed use in the comments section of this form.

Signature of Water Commissioner: _____

Dated: _____

(NOTE: If filing electronically without a signature, please check the box. ☒)

Additional comments and/or information:

This is a 600 foot spacing inspection for the re-drilled well 1005569, permit 3772-F. The new well has been drilled at the coordinates 520094m Easting & 4291561m Northing, verified in the field with DeLorme PN-40. It will be used as a municipal water supply

There are three other wells within 600 feet of the new 1005569 location. Well 1005383, Permit 223843, an exempt well located at the Elm Crest Mobile Home Park. Wes Kennedy is the contact for this well (719) 651-8570. The second is well 1005641, Permit 19464-T, owned by Colorado Springs Utilities. Well 1005931 is a collapsed well, verified with Grahams Mobile Home park owner Jim

well was nonexempt under PN 5055B, but was downgraded in case No. 96CWR93 Div. 2 to exempt uses & permitted under 223843.

15712-R

GWS-13A (01/2007)

Raughton (719-390-6865). He is not aware of any other wells on the property, including the domestic well for permit 31253. Mobile homes are now parked at the gps location for this well.

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OCT 16 2012

More room for comments on the back
Page 2, FIELD INSPECTION REPORT

WATER RESOURCES
STATE ENGINEER
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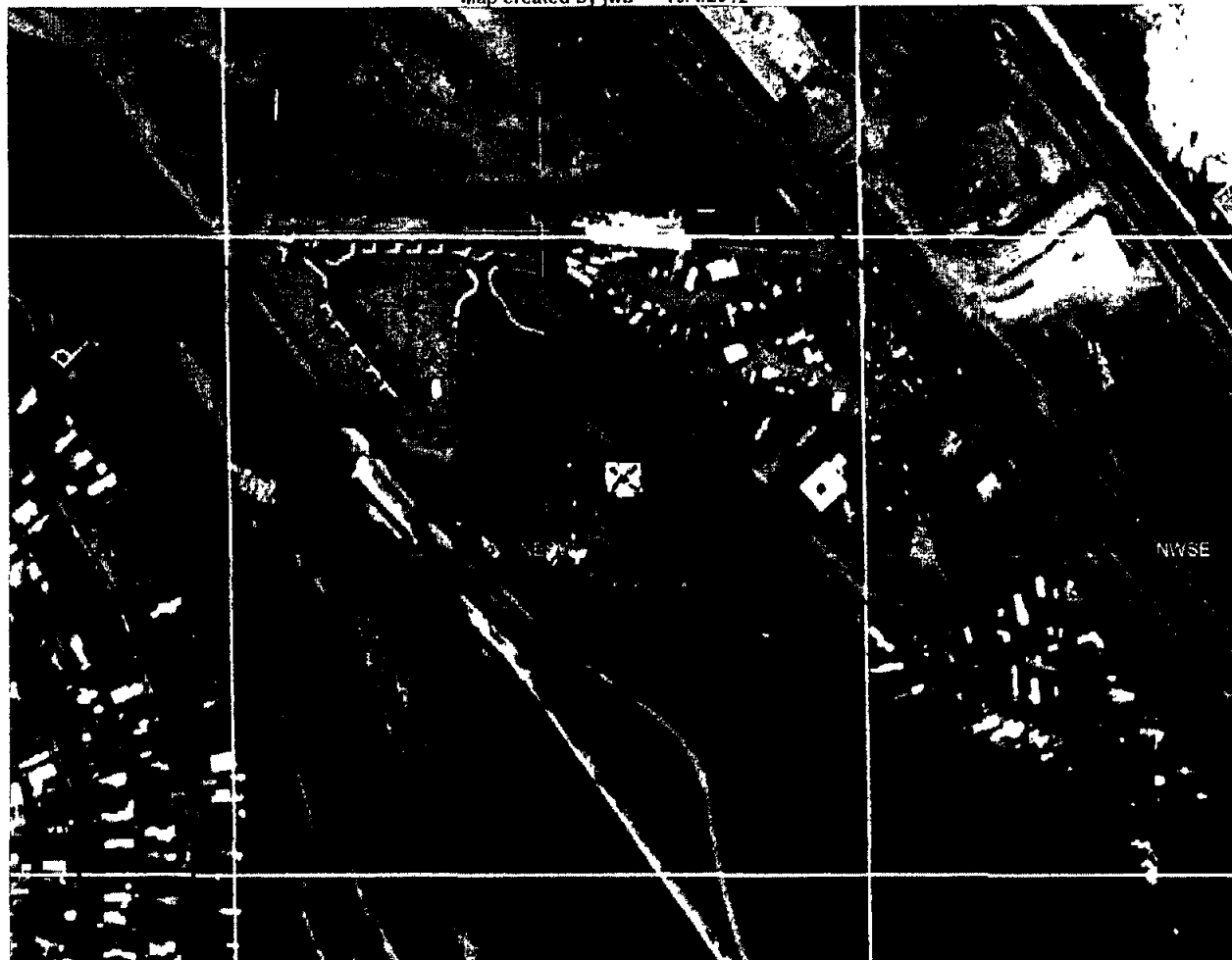
Best Copy Available

AQUAMAP

Colorado Division of Water Resources

Location of 3772F per Div 2 office

Map created by jwb 10/4/2012



MAP NAVIGATION

Click to create PDF
 UTM X, Zone 13: 705098
 UTM Y, Zone 13: 4116825
 Long -102° 41' 23.2"
 Lat 37° 10' 31.3"
 UTM and Geographic(LL) coordinates in NAD 83

DATA DISPLAY

☒ Background ☒ Counties ☒ Water Well Applica
☒ 2011 Aerials ☒ PLSS ☐ DWR Parcels
☒ Low ☐ High ☒ Roads ☒ EPA Well Notificati
☐ Hydrography ☐ Oil/Gas Well Locat
☐ County Parcels (No Public Access)
☐ Towns

LOCATION

Section Township Range Meridian
 3 15 S 66 W Sixth

PRINTING

Output Scale Page Size User
 4,320 8.5x11 jwb

Title Location of 3772F per Div 2 office

PLSS LOCATOR MENU

PLSS <=> UTM Zone Conversions Lat-Long

Section Township Range Meridian
 3 15 S 66 W Sixth
 Q 160 Q 40 Dist. (ft N/S) Dist. (ft E/W)
 S16 N16 2125 S 2082 W

Easting UTM X (m) Northing UTM Y (m)
 520116 4291525

Based on work developed at <http://www.carto.net>

Address location by Yahoo Maps
 AquaMap Version 3.0.1 July 5, 2009

Dist. between decreed loc. of well No. 5, W-3172 &
 its actual loc. per Div. 2 records = 450'

OFFICE OF THE STATE ENGINEER, STATE OF COLORADO

NOTICE OF A PERMIT APPLICATION TO CONSTRUCT A WELL

IN THE MATTER OF A PERMIT APPLICATION TO CONSTRUCT A WELL WHICH IS
LOCATED LESS THAN 600 FEET FROM OTHER EXISTING WELLS

APPLICANT: STRATMOOR HILLS WATER DISTRICT

APPLICATION RECEIPT NO. 3657014

To: Jim Raughton

Wes Kennedy

On September 14, 2012 and again on April 24, 2013, Stratmoor Hills Water District (Applicant) submitted an application for a permit to construct a replacement well for the well currently permitted under Permit No. 3772-F, and located in the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 3, Township 15 South, Range 66 West, 6th P.M., El Paso County, Colorado, at distances of 2,125 feet from the South section line and 2,082 feet from the West section line with corresponding UTM coordinate values of 520116 mEasting and 4291525 mNorthing. The proposed location of the replacement well is the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 3, Township 15 South, Range 66 West, 6th P.M., El Paso County, Colorado, at distances of 2,243 feet from the South section line and 2,010 feet from the West section line with corresponding UTM coordinate values of 520094 mEasting and 4291561 mNorthing. The Information available to this office has shown that the subject well is located less than 600 feet from your wells. Pursuant to C.R.S. 37-90-137(2), the requested permit cannot be issued by the State Engineer unless the State Engineer finds, after a hearing, that circumstances in this particular instance so warrant. The provision of C.R.S. 37-90-137(2)(b)(II)(A) provides that if the State Engineer notifies the owners of all wells within 600 feet of the subject well by certified mail and receives no response within the time set forth in the notice, no hearing shall be required.

The person(s) listed above have been identified as the owner(s) of existing wells that appear to be located within 600 feet of the subject well. As required by statute, notice of the application is hereby provided pursuant to C.R.S. 37-90-137(2)(b)(II)(A), and a copy of the permit application is attached. Anyone objecting to the issuing of a permit for the subject well must submit a written response to be received in the office of the State Engineer not later than **5:00 p.m. on June 13, 2013**. Such response should contain a brief and plain statement of the reasons why the State Engineer should not grant a permit for the subject well. If responding, please direct correspondence to **John Bilisoly** and reference the above **application receipt number**, and provide a copy of the response to the applicant.

The Division of Water Resources is sending this notice because it is required by state statute. The Division of Water Resources is not sending this notice due to a perceived or explicitly identified potential for injury or effect on your well that would result from the issuance of the proposed well permit and use of the well. If you object to the issuance of a permit in this application, you must participate in a formal hearing before the Hearing Officer for the State Engineer. In such a hearing, the Hearing Officer makes his decision based only on the evidence presented to him before and during the proceeding. Therefore, to participate in the hearing, you must formally file documents and exhibits and you must testify before the hearing officer.

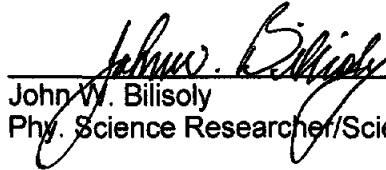
If you do not wish to participate in a hearing that might result in this matter, or have previously signed a 600-foot well spacing waiver statement, no response is needed.

Dated this 10th day of May 2013.



Dick Wolfe, P.E.
Director/State Engineer
1313 Sherman Street, Room 818
Denver, CO 80203
Telephone: (303) 866-3581
Facsimile: (303) 866-3589

By:



John W. Bilisoly
Phy. Science Researcher/Scientist

Cc: Applicant
Division 2 Office (via email)
Attachment(s)

Prepared by: JWB
600 Foot Notice

CERTIFICATE OF SERVICE

I hereby certify that I have duly served the within NOTICE OF A PERMIT APPLICATION TO CONSTRUCT A WELL upon all parties herein by depositing copies of the same in the United States mail, postage prepaid, at Denver, Colorado, this 13th day of May 2013, addressed as follows:

Steven J. Witte, P.E.
Division Engineer, Water Division 2
Division of Water Resources
310 E. Abriendo Ave., Suite B
Pueblo, CO 81004
(via email)

Gordon Halverson
Stratmoor Hills Water District
1811 B Street
Colorado Springs, CO 80806

Melanie Jollett, P.E.
Matrix Design Group
2435 Research Parkway, Suite 300
Colorado Springs, CO 80920
(via email)

Jim Raughton
3115 Glenarm Road
Colorado Springs, CO 80911
CERTIFIED MAIL NO.: 7004 0550 0001 0704 2557

Wes Kennedy
P.O. Box 6962
Colorado Springs, CO 80934
CERTIFIED MAIL NO.: 7004 0550 0001 0704 2564

A handwritten signature in cursive script, appearing to read "John B. Blythe", is written over a horizontal line.

CERTIFIED MAIL RECEIPTS FOR
STRATMOOR HILLS WATER DISTRICT
REC.# 3657014

PG. 1 OF 1

7004 0550 0001 0704 2557

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage: \$0.46
Certified Fee: \$3.10
Return Receipt Fee: \$2.55

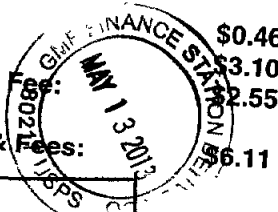
Total Postage & Fees: \$6.11

(En) (Re) (Endorsement Required)

Total Postage & Fees \$

Sent To
Jim Raughton
Street, Apt. No., or PO Box No. 3115 Glenarm Rd.
City, State, ZIP+4 Cdo. Sprgs., CO 80911

PS Form 3800, June 2002 See Reverse for Instructions



SENDER: COMPLETE THIS SECTION

1. Article Addressed to:
Wes Kennedy
P.O. Box 6962
Colorado Springs, CO 80934

2. Article Number (Transfer from service label)
7004 0550 0001 0704 2564

PS Form 3811, February 2004 Domestic Return Receipt

COMPLETE THIS SECTION

A. Signature ☒ Christine Colvin
B. Received by (Printed Name) C. Date of Delivery
D. Is delivery address different from item 1? ☐ Yes ☒ No
If YES, enter delivery address below:
Christine Colvin

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

7004 0550 0001 0704 2564

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

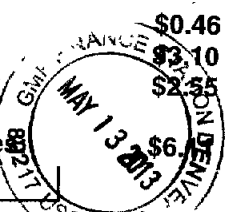
Postage: \$0.46
Certified Fee: \$3.10
Return Receipt Fee: \$2.55

Total Postage & Fees: \$6.11

Total Postage & Fees \$

Sent To
Wes Kennedy
Street, Apt. No., or PO Box No. P.O. Box 6962
City, State, ZIP+4 Colorado Springs, CO 80934

PS Form 3800, June 2002 See Reverse for Instructions



SENDER: COMPLETE THIS SECTION

1. Article Addressed to:
Jim Raughton
3115 Glenarm Rd.
Colorado Springs, CO 80911

2. Article Number (Transfer from service label)
7004 0550 0001 0704 2557

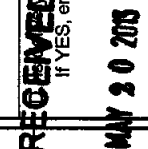
PS Form 3811, February 2004 Domestic Return Receipt

COMPLETE THIS SECTION

A. Signature ☒ Jim Raughton
B. Received by (Printed Name) C. Date of Delivery
D. Is delivery address different from item 1? ☐ Yes ☒ No
If YES, enter delivery address below:






3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes



Attachments can contain viruses that may harm your computer. Attachments may not display correctly.

dwrpermitsonline

From: Melanie Jollett [Melanie_Jollett@matrixdesigngroup.com] **Sent:** Fri 9/14/2012 12:33 PM
To: dwrpermitsonline
Cc:
Subject: Form Submittal
Attachments:  [Easement Doc Dec 2008.pdf\(826KB\)](#)  [Existing Well Deed.pdf\(2MB\)](#)  [stratmoor hills loq.pdf\(497KB\)](#)  [Stratmoor Hills Well Site Parcel Description Exhibits A,B,&C.pdf\(219KB\)](#)  [Signed permit application.pdf\(783KB\)](#)

Stratmoor Hills Water District recently re-drilled their existing Well #5, original permit number 3772-F. Enclosed is a copy of the new well permit application and applicable attachments.

RECEIVED

SEP 14 2012

WATER RESOURCES
STATE ENGINEER
COLO.

I will call to pay all application permits fees. Please let me know if you need additional information. Thanks.

Melanie Jollett, PE, Water Resources Engineer

Matrix Design Group, Inc.

2435 Research Parkway, Suite 300 | Colorado Springs, CO 80920 | Office 719.575.0100

www.matrixdesigngroup.com



State
of
Colorado

Emails :
Pg. 1 of 4

FW: Permit Application for Stratmoor Hills Water District, Rec.# 3657014, WDID #1005569

Garoutte, Janet <Janet.Garoutte@state.co.us>

Wed, Oct 3, 2012 at 7:32 AM

To: "Bilisoly, John" <John.Bilisoly@state.co.us>, "Swank, James" <James.Swank@state.co.us>

Cc: "Baker, Dale" <Dale.Baker@state.co.us>

John,

Do you have everything you need from us on this well? Is it considered illegal at this point?

From: Swank, James

Sent: Wednesday, September 19, 2012 1:18 PM

To: Garoutte, Janet

Subject: RE: Permit Application for Stratmoor Hills Water District, Rec.# 3657014, WDID #1005569

The coordinates for the new well are 13S 0520094 4291561

From: Garoutte, Janet

Sent: Monday, September 17, 2012 8:17 AM

To: Bilisoly, John; Lloyd, Nolan

Cc: Pearson, Julie; Swank, James; Baker, Dale; Hollister, Doug

Subject: RE: Permit Application for Stratmoor Hills Water District, Rec.# 3657014, WDID #1005569

James will head out there this morning and get some information for us.

Janet

From: Garoutte, Janet

Sent: Friday, September 14, 2012 3:56 PM

To: Bilisoly, John

Cc: Pearson, Julie; Lloyd, Nolan; Swank, James; Baker, Dale; Hollister, Doug

Subject: RE: Permit Application for Stratmoor Hills Water District, Rec.# 3657014, WDID #1005569

John,

Since it was drilled without proper permit, we can't issue a permit for the structure regardless of the location.

Julie and I have discussed this and will discuss with field staff on Monday to determine if other violations exist and arrange for a field inspection.

Janet

From: Bilisoly, John
Sent: Friday, September 14, 2012 3:46 PM
To: Garoutte, Janet
Cc: Pearson, Julie; Lloyd, Nolan
Subject: Permit Application for Stratmoor Hills Water District, Rec.# 3657014, WDID #1005569

Janet,

As we discussed by phone today, Laura Nelsen, our Records Manager brought the attached application to me.

The application was emailed to us and then Melanie Jollett, a water resources engineer from Matrix Design Group, Inc., called her to follow up with payment of the application fee. Laura asked her if this was an emergency, and she said that no, it wasn't, and that the well had already been drilled without a permit. She also submitted a Well Construction and Test Report, which states that the well was constructed on 6/2/2011 by Arkansas Valley Drilling (Lic. #1305). I could not find any evidence that we had approved a replacement permit or even a monitoring well permit or monitoring hole acknowledgment for this construction.

The applicant wants to move the well 550 south of the existing well location: The UTM's you gave me for the present location of well Permit No. 3772-F are 520116m Easting and 4291525m Northing. The location requested on the application is 520108m Easting and 4291617m Northing. A move of over 200 feet from the decreed location and actual location of the existing well would be a change in water right, and would require the applicant to go to water court to obtain approval of the changed location.

(Nolan, it appears the well driller may have violated the Water Well Construction Rules here, so I have included your name on this email for your handling of the apparent violation.)

Thanks,

John W. Bilisoly

Colorado Division of Water Resources

1313 Sherman Street, Room 818

Denver, CO 80203

303-866-3581 ext. 8216

303-866-3589 fax

www.water.state.co.us

Billisoly, John <John.Bilisoly@state.co.us>

Thu, Oct 4, 2012 at 8:56 AM

To: "Garoutte, Janet" <Janet.Garoutte@state.co.us>, "Swank, James" <James.Swank@state.co.us>

Cc: "Baker, Dale" <Dale.Baker@state.co.us>, "Pearson, Julie" <Julie.Pearson@state.co.us>

Janet,

I think we can proceed with the evaluation. This is what we know at this point concerning the well locations based on the decreed location, the inventoried location of the original well Permit No. 3772-F (WDID 1005569), and the new 6/2/2011 well location.

Decreed location: NE1/4, SW1/4, Sec. 3, T.15S, R.66W, 6th P.M. @ 1880 ft. from SSL and 2820 ft. from ESL (or 2460 ft. from WSL).

Actual location: 520116m Easting & 4291525m Northing; being 2125 ft. from SSL and 2082 ft. from WSL.

New 6/2/2011 location: 520094m Easting & 4291561m Northing; being 2243 ft. from SSL and 2010 ft. from WSL.

The decreed location and the actual location are 450 feet apart, so when the decree (case no. W-3172) was entered on 7/12/1974, the location of Stratmoor Well No. 5 (Permit No. 3772-F) was in error. When the well was inventoried, we probably should have advised the well owner to correct the decreed location. Maybe we did. I don't know.

The actual well location and the new 6/2/2011 well location are only 138 feet apart. That is the good news here, that they drilled the new well approximately 138 ft. to the north and west of the original well site.

The decreed location and the new 6/2/2011 well location are 578 feet apart, so on their new application in Item where they say they want to move the new well 550 feet from the original well, they may have been referring to the decreed location.

As to the new 6/2/2011 well being constructed without a permit or authorization from this well, the Board of Examiners is dealing with that and has sent an allegation letter to the driller dated 9/18/2012, and I have attached a copy of it.

So, if you could proceed with your evaluation, including 600-ft. well spacing, that would be great.

From: Garoutte, Janet
Sent: Wednesday, October 03, 2012 7:32 AM
To: Bilisoly, John; Swank, James
Cc: Baker, Dale
Subject: FW: Permit Application for Stratmoor Hills Water District, Rec.# 3657014, WDID #1005569

[Quoted text hidden]

 stratmoor.pdf
25K

Garoutte, Janet <janet.garoutte@state.co.us>
To: John Bilisoly <john.bilisoly@state.co.us>

Tue, Oct 16, 2012 at 3:21 PM

John,
600 foot spacing is completed on the well. Just view the last attachments, as I had James add more information to the latest version of the field report.

----- Forwarded message -----

From: **Swank, James** <james.swank@state.co.us>
Date: Tue, Oct 16, 2012 at 11:57 AM
Subject: Fwd: Permit Application for Stratmoor Hills Water District, Rec.# 3657014, WDID #1005569
To: Janet Garoutte <janet.garoutte@state.co.us>

Janet,

I attached an updated version of the inspection which addresses those questions.

----- Forwarded message -----

From: **Garoutte, Janet** <janet.garoutte@state.co.us>
Date: Mon, Oct 15, 2012 at 3:52 PM
Subject: Fwd: Permit Application for Stratmoor Hills Water District, Rec.# 3657014, WDID #1005569
To: James Swank <james.swank@state.co.us>
Cc: Julie Pearson <julie.pearson@state.co.us>, Dale Baker <dale.baker@state.co.us>

James,
1005931 is on your map, did you see, attempt to see, or not find the well? Also an exempt well is on the xlsx list, 31253, did you see it, not find it? Please make comments on your field report and forward all back to me.
Thanks.
Janet

----- Forwarded message -----

From: **Swank, James** <james.swank@state.co.us>
Date: Fri, Oct 12, 2012 at 11:56 AM
Subject: Fwd: Permit Application for Stratmoor Hills Water District, Rec.# 3657014, WDID #1005569

RECEIVED

SEP 14 2012

PERMANENT EASEMENT AGREEMENT

This Permanent Easement Agreement ("Agreement") effective DECEMBER 9, 2008 by and between Golden Square Development LLC, a Colorado Limited Liability Company ("Grantor"), whose address is 3115 Glenarm Road, Colorado Springs, CO 80911 and the Stratmoor Hills Water and Sanitation Districts, Quasi-Municipal Water and Sanitation Districts ("District"), whose address is 1811 B Street, Colorado Springs, Colorado 80906 ("Grantee"). Both Grantor and Grantee hereinafter are individually referred to as "Party" and collectively referred to as "Parties."

WATER RESOURCES
STATE ENGINEER
COLO.

Recitals

WHEREAS, Grantor owns real property as legally described in "Exhibit A" attached hereto ("Property"), in, through, over, under, and across which the improvements (as defined in Section 1 below) will pass; and

WHEREAS, Grantee has determined that its improvements (as defined in Section 1 below) must be constructed, installed, and maintained within the Property along a certain utilities corridor;

NOW, THEREFORE, in consideration of the promises, mutual covenants and agreements contained herein, and other good and valuable consideration, the receipt of which is hereby acknowledged, the Parties agree as follows:

Agreement

- 1. Conveyance of Permanent Easement.** Grantor hereby grants to Grantee a perpetual, non-exclusive permanent easement to enter, occupy, and use the real property legally described in "Exhibit B" attached hereto, to construct, reconstruct, use, operate, maintain, repair, patrol, replace, upgrade, or remove one or more pipelines, conduits, poles, vaults, meters, regulator stations, switches, transformers, valves, hydrants, manholes, access roads or any other utility structures (including, but not limited to, communication facilities), and all necessary underground or aboveground cables, wires, and appurtenances thereto, including, but not limited to, electric or other control systems, cables, wires, connections, and surface appurtenances ("Improvements") in, under, through, over and across such real property ("Permanent Easement").
- 2. Easement Map.** "Exhibit C" attached hereto is a graphic representation of the Permanent Easement. In the event Exhibit C is inconsistent with Exhibit B, Exhibit B shall control.
- 3. Ingress and Egress.** Grantee shall have the perpetual right of reasonable ingress and egress in, to, through, over, under, and across the Property for access to and from any roads, highways, streets, alleys, or any other point to the Permanent Easement, in order to perform Grantee's rights in the Permanent Easement. To the maximum practicable extent, Grantee shall use existing gates, roads, trails or facilities to avoid disruption of Grantor's operations on the Property.
- 4. Additional Construction.** Grantee shall have the right to construct, reconstruct, use, operate, maintain, repair, patrol, replace, upgrade, or remove at any time or from time to time, one or more additional improvements and appurtenances thereto within the Permanent Easement. Such right shall be perpetual, and Grantor shall not stop, hinder, or impede construction of such additional improvements or limit the same within the Permanent Easement.
- 5. Grantor's Rights Unaffected.** Except as provided in Section 6 below, Grantor shall retain the right to make full use of the Property, except for such use as might endanger or interfere with the rights of Grantee in the Permanent Easement. Grantor shall only perform or permit other persons or entities to perform construction or other work within the Permanent Easement after

RECEIVED

SEP 14 2012

PERMANENT EASEMENT AGREEMENT

WATER RESOURCES
STATE ENGINEER
COLO.

prior written approval by Grantee and only if such construction or other work is performed in accordance with the terms of this Agreement, all applicable laws, rules and regulations, and Grantee's rules and regulations as they may be modified from time to time. Grantor reserves use of the Permanent Easement, whether longitudinal or otherwise, for installing the following with written approval from Grantee: pavement, curbs, gutters, sidewalks, parking areas and associated curb cuts, paved driveways, fences (except fences which cannot be reasonably removed and erected again, such as, but not limited to: stone, brick, or other masonry type fences or walls), low-height landscaping, and sprinkler systems which are capable of being reasonably located by Grantee ("Grantor's Improvements"); provided however, that the exercise of such rights, in the reasonable opinion of Grantee, does not injure or interfere with, now or in the future, any of the Grantee's rights in the Permanent Easement including, but not limited to, Grantee's rights of maintenance and reasonable access.

6. **Installations within Permanent Easement.** Grantor shall not construct or place any permanent structure or building on any part of the Permanent Easement including, but not limited to: posts, poles, fences (except posts, poles, or fences that can be easily removed and erected again; and except for garage-door porch stoops and only those retaining walls up to 4 feet in height that may be required to extend into the side lot-line easements of a residential property), dwellings, garages, barns, sheds, storage structures of any kind, lean-tos, play houses or other play structures, outbuildings, gazebos, hot tubs, swimming pools, concrete patios, decks, basketball/sports courts, retaining wall, or any edifice projections such as, but not limited to: balconies, verandas, porches, building overhangs, or bay windows. Without liability for damages, Grantee may remove any structure or building constructed or placed within the Permanent Easement. If Grantor constructs, places or permits any structure or building within the Permanent Easement, then Grantor shall reimburse Grantee for all expenses (including, but not limited to removal, court, collection, and attorneys' fees and costs) associated with or arising from removing such structure or building. Moreover, in no event shall Grantor:
- construct or place, longitudinally along or otherwise within the Permanent Easement, any tree, underground pipeline, cable, wire, conduit, valve, stub, or other utility or appurtenance without the prior written consent of Grantee; or
 - change, by excavation or filling, the present grade or ground level of the Permanent Easement without the prior written consent of Grantee.

Grantor shall prevent the construction or alteration of landfills, wetlands, land excavations, water impoundments, and other land uses within the Permanent Easement. Additionally, Grantor shall not construct or alter any landfills, wetlands, water impoundments, and other similar uses within the Property, which might, in Grantee's reasonable discretion, endanger or interfere with any improvements, including, but not limited to, Grantee's rights of maintenance and reasonable access, without the prior written consent of Grantee.

7. **Surface Restoration to Land.** Grantee shall replace, repair, or reimburse Grantor for the reasonable cost of replacement or repair of physical damage to Grantor's Improvements on the Property, whether or not within the Permanent Easement, but only if such damage is caused by Grantee's construction, reconstruction, use, operation, maintenance, repair, patrol, replacement, upgrading, or removal of its Improvements. In the construction, reconstruction, use, operation, maintenance, repair, patrol, replacement, upgrading, or removal of its Improvements, Grantee shall promptly restore, replace, or repair the surface of the Permanent Easement to as close to its condition immediately prior to such work as may be reasonably possible. Despite anything contained herein to the contrary, Grantee shall not be liable for damage to structures, buildings, or any other articles whatsoever, which are constructed, installed, or otherwise existing within the Permanent Easement in violation of the terms of this Agreement including, but not limited to, any tree(s) that interfere with the improvements or Grantee's rights in the Permanent Easement.

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8. Maintenance of Permanent Easement. Grantee shall have the perpetual right to cut, trim, control, and remove trees, brush, and other obstructions which injure or interfere with the Grantee's use, occupation or enjoyment of the Permanent Easement, or Grantee's right to construct, reconstruct, use, operate, maintain, repair, patrol, replace, upgrade, or remove its improvements, without liability for damages arising there from.
9. Subjacent and Lateral Support. Grantor shall not impair any lateral or subjacent support for the improvements.
10. Nature of Easement and Additional Uses. The Permanent Easement is perpetual and runs with the land. It also is deemed to touch and concern the land. The exercise of any rights in the Permanent Easement other than those retained by Grantor shall be within the sole discretion of Grantee. Grantee shall permit and authorize such other uses of the Permanent Easement, not hereby reserved in Grantor, as will not impair Grantee's rights in the Permanent Easement subject to the limitations contained herein.
11. Warranty of Title. Grantor warrants that it has good and merchantable title to the Property and has the full right and lawful authority to grant the Permanent Easement. Grantor further warrants, promises, and agrees to defend Grantee in the exercise of Grantee's rights hereunder against any defect in Grantor's title to the Property or Grantor's right to grant the Permanent Easement.
12. Indemnity/Liability. Grantor hereby releases Grantee and shall fully protect, defend, indemnify and hold harmless Grantee, their officers, Utilities Board, directors, employees, agents and representatives from and against any and all claims, costs and fees (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or other dispute resolution costs), losses, damages, causes of action, or liability of any nature (including, but not limited to environmental) arising from or in connection with the Permanent Easement, Grantor's improvements, or the improvements to the extent arising from or due to Grantor's action(s) or failure(s) to act.
13. Waiver. The failure of Grantee to insist, in any one or more instances, upon a strict performance of any of the obligations, covenants, or agreements herein contained, or the failure of Grantee in any one or more instances to exercise any option, privilege, or right herein contained, shall in no way be construed to constitute a waiver, relinquishment or release of such obligations, covenants, or agreements, and no forbearance by the Grantee of any default hereunder shall in any manner be construed as constituting a waiver of such default.
14. Governing Law and Jurisdiction. This Agreement shall be construed in accordance with the laws of the State of Colorado, the El Paso County, City Code, Ordinances, Rules and Regulations. In the event of any dispute over this Agreement, the exclusive venue and jurisdiction for any litigation arising hereunder shall be in the District Court of El Paso County, Colorado, and, if necessary for exclusive federal questions, the United States District Court for the District of Colorado.
15. Binding Effect. Each and every one of the benefits and burdens of this Agreement shall inure to and be binding upon the respective legal representatives, heirs, executors, administrators, successors, transfers, agents, and assigns of the Parties.
16. No Third Party Beneficiaries. Except as expressly provided otherwise, this Permanent Easement is intended to be solely for the benefit of the Parties and shall not otherwise be deemed to confer upon or give to any other person or third party any remedy, claim, cause of action or other right.

PERMANENT EASEMENT AGREEMENT

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17. Severability. The provisions of this Agreement are severable. Illegality or unenforceability of any provision herein shall not affect the validity or enforceability of the remaining provisions in this Agreement.
18. Incorporation of Exhibits. All exhibits described in and attached to this Agreement are herein incorporated by reference. Grantor hereby acknowledges that Exhibits A and B must be prepared by or under the supervision of a Professional Land Surveyor licensed by the State of Colorado.
19. Notice. Any notice provided in accord with this Agreement, shall be in writing and shall be sent by delivery service, or mailed by certified mail, postage prepaid and return receipt requested to either Party's address as shown below or to the property owner of record ("Notice"). Such Notice shall be effective upon the date received and acknowledged by signature of the Party that receives Notice. Either Party may change its address to which any Notice is to be delivered under this Agreement by giving Notice as provided herein.

Grantee:
Stratmoor Hill Water and Sanitation Districts:
1811 B Street
Colorado Springs, CO 80906

Grantor:
Golden Square Development LLC
3115 Glenarm Road
Colorado Springs, CO 80911

Entire Agreement. This Agreement represents the entire agreement between the Parties and no additional or different oral representation, promise or agreement, oral or otherwise, shall be binding on any of the Parties hereto with respect to the subject matter of this instrument, unless stated in writing explicitly referring to this Permanent Easement Agreement and signed by the Parties.

PERMANENT EASEMENT AGREEMENT

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IN WITNESS WHEREOF, the Parties hereto have executed this Agreement effective as of the day
and year first above written.

WATER RESOURCES
STATE ENGINEER
COLO.

GRANTOR:

Entity: Golden Square Development LLC

By:

(SEAL)

Name: Jim Raughton

Title: Manager

STATE OF Colorado

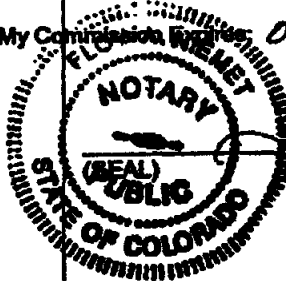
COUNTY OF El Paso

}
} ss.
}

The foregoing instrument was acknowledged before me this 9th day of December
2007, by Jim Raughton as Manager of Golden Square Development LLC.

Witness my hand and official seal.

My Commission Expires: 05-05-10



[Signature]
Notary Public

GRANTEE:

Stratmoor Hills Water and Sanitation Districts

By: _____

Title: _____



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EXHIBIT A: LEGAL DESCRIPTION

**LOT 1 "GLENARM SUBDIVISION" AS RECORDED UNDER RECEPTION NO. 207712593
OF THE RECORDS OF EL PASO COUNTY COLORADO;**

TOGETHER WITH:

**TRACT A "A VACATION AND RESUBDIVISION OF GRAHAM SUBDIVISION" AS
RECORDED UNDER RECEPTION IN PLAT BOOK Y-2 AT PAGE 29 OF THE RECORDS
OF EL PASO COUNTY, COLORADO;**

TOGETHER WITH:

**LOT 1, BLOCK 2 "A VACATION AND RESUBDIVISION OF GRAHAM
SUBDIVISION" AS RECORDED UNDER RECEPTION IN PLAT BOOK Y-2 AT PAGE 29
OF THE RECORDS OF EL PASO COUNTY, COLORADO;**

TOGETHER WITH:

**A TRACT IN NORTHEAST QUARTER OF THE SOUTHWEST QUARTER, SECTION
3, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE 6TH P.M., EL PASO COUNTY,
COLORADO LYING SOUTHERLY OF GLENARM ROAD, EASTERLY, NORTHERLY
AND NORTHWESTERLY OF "A VACATION AND RESUBDIVISION OF GRAHAM
SUBDIVISION".**

Prepared By:
M.V.E., Inc.
1903 Lelaray Street, Suite 200
Colorado Springs, CO 80909
October 27, 2008

68739 utl con A-B Exhibit A LD.vpd

Page 1 of 1
Engineers • Surveyors
1903 Lelaray Street, Suite 200 • Colorado Springs, CO 80909 • Phone 719-633-5736
Fax 719-635-5450 • e-mail mve@mvecivil.com



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STATE ENGINEER
COLO

EXHIBIT B: LEGAL DESCRIPTION

EASEMENT A:

A STRIP OF LAND OVER AND ACROSS A PORTION OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER, SECTION 3, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, SAID STRIP OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE MOST SOUTHERLY CORNER OF TRACT B OF "GLENARM SUBDIVISION" AS RECORDED UNDER RECEPTION NO. 207712593 OF THE RECORDS OF SAID EL PASO COUNTY;

(BEARINGS REFERRED TO HEREIN ARE BASED ON THE WESTERLY LINE OF SAID TRACT B RECORDED AS BEARING S01°03'07"E.)

THENCE N01°03'07"W, 217.75 FEET ALONG SAID WESTERLY LINE OF TRACT;

THENCE N73°01'56"W, 50.16 FEET TO THE POINT OF BEGINNING OF THE STRIP OF LAND HEREIN DESCRIBED;

THENCE S60°48'48"W, 78.00 FEET;

THENCE N37°33'57"W, 371.04 FEET;

THENCE N15°44'09"E, 35.38 FEET;

THENCE N74°15'51"W, 21.08 FEET;

THENCE N15°44'09"E, 20.00 FEET;

THENCE S74°15'51"E, 21.08 FEET;

THENCE N15°44'09"E, 30.98 FEET;

THENCE N89°17'56"W, 57.00 FEET;

THENCE N00°42'04"E, 20.00 FEET;

THENCE S89°17'56"E, 83.02 FEET;

Page 1 of 3

Engineers • Surveyors

1903 Lalaray Street, Suite 200 • Colorado Springs, CO 80909 • Phone 719-635-5736

Fax 719-635-5450 • e-mail mve@mvecivil.com

THENCE N60°44'09"E, 24.03 FEET;
THENCE S89°17'56"E, 276.02 FEET;
THENCE S61°06'15"W, 64.79 FEET;
THENCE N89°17'56"W, 235.15 FEET;
THENCE S15°44'09"W, 77.17 FEET;
THENCE S37°33'57"E, 324.42 FEET;
THENCE N80°06'26"E, 35.38 FEET;
THENCE N37°33'57"W, 17.33 FEET;
THENCE N52°26'03"E, 20.00 FEET;
THENCE S37°33'57"E, 10.11 FEET;
THENCE S27°32'11"E, 35.38 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH:

EASEMENT B:

A STRIP OF LAND OVER AND ACROSS A PORTION OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER, SECTION 3, TOWNSHIP 15 SOUTH, RANGE 66 WEST OF THE 6TH P.M., EL PASO COUNTY, COLORADO, SAID STRIP OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE MOST SOUTHERLY CORNER OF TRACT B OF "GLENARM SUBDIVISION" AS RECORDED UNDER RECEPTION NO. 207712593 OF THE RECORDS OF SAID EL PASO COUNTY;

(BEARINGS REFERRED TO HEREIN ARE BASED ON THE WESTERLY LINE OF SAID TRACT B RECORDED AS BEARING S01°03'07"E.)

THENCE N01°03'07"W, 217.75 FEET ALONG SAID WESTERLY LINE OF TRACT TO THE POINT OF BEGINNING OF THE STRIP OF LAND HEREIN DESCRIBED;

THENCE N73°01'56"W, 50.16 FEET;

Page 2 of 3

*M.V.E., Inc. • Engineers • Surveyors
1903 Lelaray Street, Suite 200 • Colorado Springs, CO 80909 • Phone 719-635-5736
Fax 719-635-5450 • e-mail mve@mvecivil.com*

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WATER RESOURCES
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COLO.

THENCE N27°32'11"W, 35.38 FEET;

THENCE N07°26'03"E, 179.37 FEET;

THENCE N12°50'55"E, 94.08 FEET;

THENCE N42°36'28"W, 47.52 FEET;

THENCE N61°06'15"E, 64.79 FEET;

THENCE S04°40'28"E, 102.57 FEET;

THENCE S11°28'59"W, 252.33 FEET;

THENCE S73°01'56"E, 54.33 FEET;

THENCE N67°57'33"E, 160.26 FEET;

THENCE S63°38'13"E, 204.95 FEET;

THENCE S26°21'47"W, 20.00 FEET;

THENCE N63°38'13"W, 195.96 FEET;

THENCE S67°57'33"W, 158.35 FEET;

THENCE N73°01'56"W, 16.08 FEET TO THE POINT OF BEGINNING OF THE STRIP OF
LAND HEREIN DESCRIBED.

Prepared By: .
M.V.E., Inc.
1903 Lelaray Street, Suite 200
Colorado Springs, CO 80909
September 26, 2008

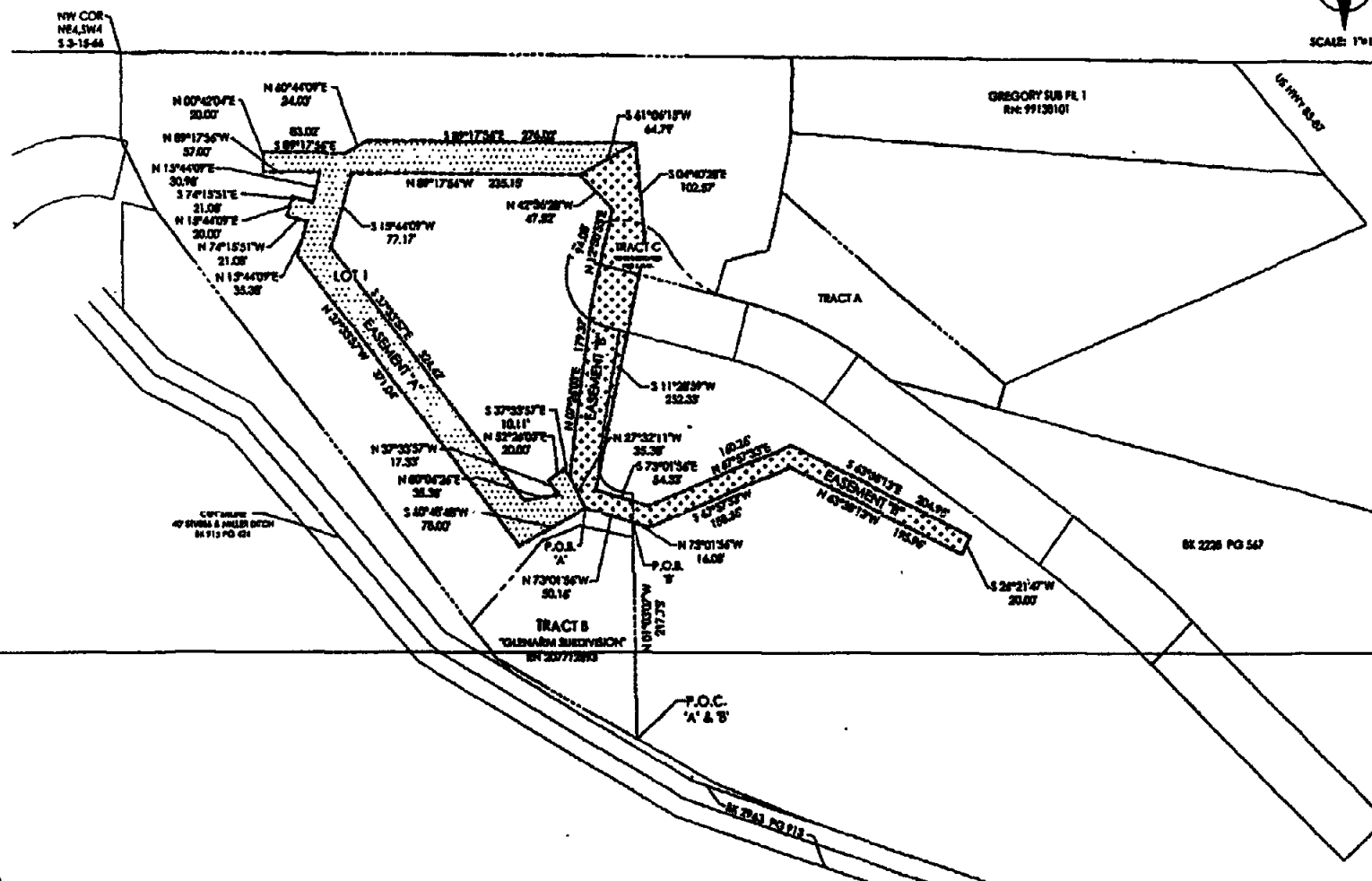
68739 utll esmt A-B Exhibit B LD.wpd

Page 3 of 3

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1903 Lelaray Street, Suite 200 • Colorado Springs, CO 80909 • Phone 719-635-5736
Fax 719-635-5450 • e-mail mve@mvecivil.com

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60739
D9-1608
60739022
2008

EXHIBIT C: LEGAL DESCRIPTION SKETCH PAGE 1 OF 1

Title Data, Inc. LG SKL10991 EL 131811-2008.010

Filed for record the NOV 9 1971

BOOK 2448 PAGE 317 RECEIVED

Exemption No. 841879

HARRIET BEALS

SEP 14 2012

This Deed, Made this 4th day of October in the year of our Lord one thousand nine hundred and seventy-one between J. F. ABRAHAMSON

WATER RESOURCES
STATE ENGINEER
COLO

of the County of El Paso and State of Colorado, of the first part, and
JOHN W. GRAHAM and JESSIE M. GRAHAM, in joint tenancy
of the County of El Paso and State of Colorado, of the second part;

Witnesseth, That the said part y of the first part, for and in consideration of the sum of
TEN AND NO/100 -----DOLLARS,
to the said part y of the first part in hand paid by the said parties of the second part, the receipt whereof is
hereby confessed and acknowledged, he s granted, bargained, sold and conveyed, and by these presents do s
grant, bargain, sell, convey and confirm unto the said parties of the second part, not in tenancy in common but in
joint tenancy, the survivor of them, their assigns and the heirs and assigns of each survivor forever, all the following
described lot or parcel of land, situate, lying and being in the County of El Paso and State
of Colorado, to-wit:

Legal description attached as Exhibit "A" and made
a part hereof.

Reserving unto the grantor, his heirs and assigns, those certain
power line and utility line easements for water and sanitation, and
those certain wells known as Well No. 4 and Well No. 5 as are set
forth in the attached Exhibit "B" being an Engineering drawing by
Karcich & Weber, Inc., Job No. 2005, Drawing No. 1634-M1.
Excepting and reserving unto the Grantor all water rights and rights
to underground water in, under and upon the premises. The Grantees,
their successors and assigns do hereby covenant and agree not to
drill any water wells upon or about said premises. Subject to pro-
tective covenants and easements of record.
Further reserving unto the Grantor his heirs, and assigns, the right
to drill one additional well upon the subject property at a location
of Grantor's choice, together with a right of way for pipeline over,
under, across and through the property from such well site, and with
right of ingress and egress to and from such site, which site shall
be shown by drawing and recorded when completed, and further pro-
viding that this right shall expire on 20 years from date, if no
such well has been drilled.

Together with all and singular the hereditaments and appurtenances thereto belonging, or in anywise apper-
taining, and the revenues and revenues, remainder and remainders, rents, issues and profits thereof; and all the
estate, right, title, interest, claim and demand whatsoever of the said part y of the first part, either in law or
equity, of, in and to the above bargained premises, with the hereditaments and appurtenances.

To Have and to Hold the said premises above bargained and described, with the appurtenances, unto the said
parties of the second part, the survivor of them, their assigns and the heirs and assigns of each survivor forever.
And the said part y of the first part, for him self heirs, executors, and administrators, do s
covenant, grant, bargain and agree to and with the said parties of the second part, the survivor of them, their assigns
and the heirs and assigns of each survivor, that at the time of the executing and delivery of these presents,
well seized of the premises above conveyed, as of good, sure, perfect, absolute and indefeasible estate of inheritance,
in law, in fee simple, and he s good right, full power and lawful authority to grant, bargain, sell and convey
the same in manner and form aforesaid, and that the same are free and clear from all former and other grants,
bargains, sales, leases, taxes, assessments and incumbrances of whatever kind or nature soever.

and the above bargained premises in the quiet and peaceable possession of the said parties of the second part, the
survivor of them, their assigns and the heirs and assigns of each survivor, against all and every person or persons
lawfully claiming or to claim the whole or any part thereof, the said part y of the first part shall and will
WARRANT AND FOREVER DEFEND.

In Witness Whereof, The said part y of the first part he s hereto set his hand
and seal the day and year first above written.

Signed, Sealed and Delivered in the Presence of

STATE DOCUMENTARY FEE

NOV 9 1971

1-72

X J. F. Abrahamson
J. F. Abrahamson

STATE OF COLORADO,

County of El Paso

acknowledged before me this 4th day of October 1971

by J. F. Abrahamson

Witness my hand and official seal.

My commission expires Jan 31 1974

*If officer is official or representative capacity, insert name and also office or capacity and date of expiration.

WARRANTY DEED TO JOINT TENANTS

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Best Copy Available

DESCRIPTION:

BOOK 2448 PAGE 318

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COLO

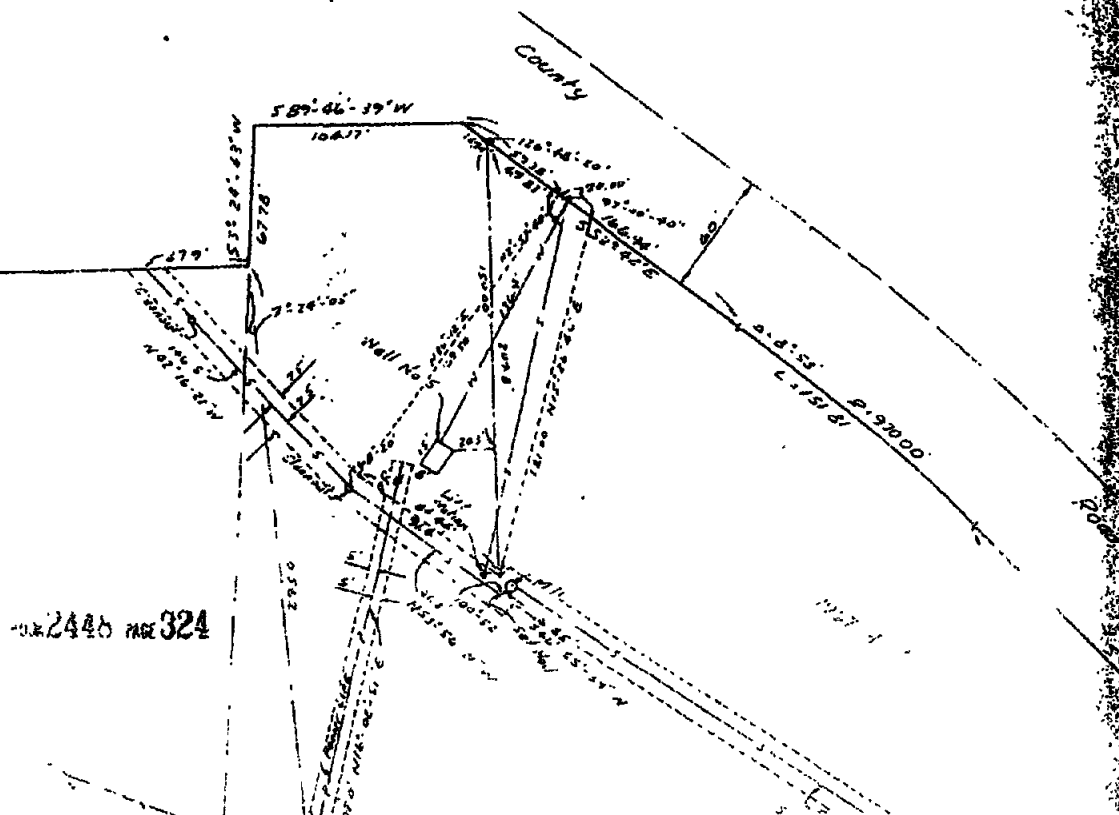
A portion of the Northeast quarter of the Southwest quarter of Section 3, Township 15 South, Range 60 West of the 6th P.M., described as follows: Beginning at the most Easterly corner of that tract of land conveyed to Tom and Elva Pinello as described in deed recorded in Book 2145 at Page 000 under Reception No. 496678 of the records of El Paso County; said point of beginning being on the Southwesterly right of way line of a public road as conveyed to said El Paso County and described in deed recorded in Book 1235 at Page 43 under Reception No. 262375 of the records of El Paso County; (1) Thence from the Southeasterly direction of said Southwesterly right of way line, angle right $143^{\circ} 28' 39''$, Westerly, on the Southerly line of said tract recorded in Book 2145 at Page 800 of the records of El Paso County, a distance of 104.17 feet to an angle point thereon; (2) Thence angle left $80^{\circ} 21' 55''$, Southerly, continuing on the boundary line of the last mentioned tract, a distance of 67.78 feet to an angle point thereon; (3) Thence angle right $75^{\circ} 32' 10''$, Westerly, continuing on the Southerly line of the last mentioned tract, a distance of 404.39 feet to an angle point thereon; (4) Thence angle left $128^{\circ} 46' 53''$, Southeasterly, a distance of 145.2 feet; (5) Thence angle left $22^{\circ} 10' 00''$, Southeasterly, a distance of 250.0 feet; (6) Thence angle left $60^{\circ} 35' 00''$, Southeasterly, a distance of 743.0 feet, more or less, to intersect the East line of the Southwest Quarter of said Section 3; (7) Thence angle left $111^{\circ} 15' 00''$, Northerly, on said East line of the Southwest Quarter of Section 3, a distance of 145.35 feet, more or less, to intersect the aforementioned Southwesterly right of way line of a public road recorded in Book 1235 at Page 43 of said El Paso County records; (8) Thence angle left $44^{\circ} 44' 00''$, Northwesterly, on said Southwesterly right of way line, a distance of 345.31 feet, more or less, to the point of curvature of a curve to the left; (9) Thence Northwesterly, on said Southwesterly right of way line, on the arc of said curve to the left, having a central angle of $3^{\circ} 51'$, a radius of 570.00 feet, an arc length of 151.6 feet to the point of tangency; (10) Thence Northwesterly, on said Southwesterly right of way line, on the tangent to said curve, a distance of 166.54 feet, more or less to the point of beginning.

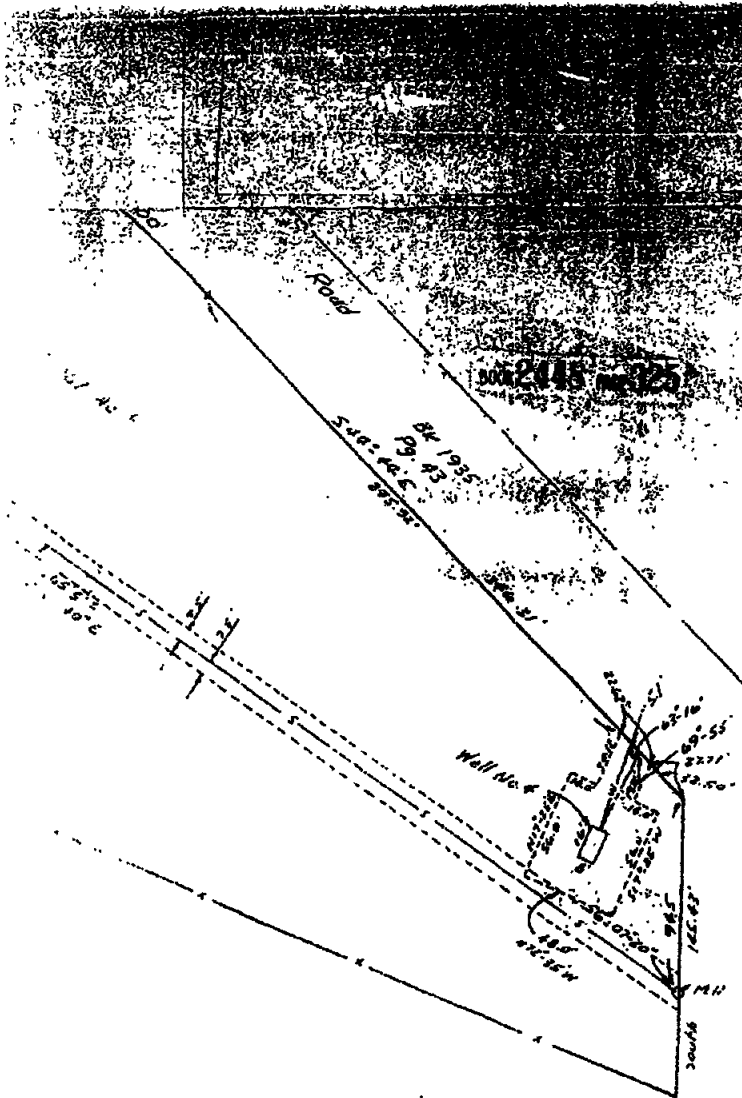
In El Paso County, Colorado.

Exhibit "A"

SEP 14 2012

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REVISION	DESCRIPTION	DATE

Best Copy Available



2435 Research Parkway, Suite 300
Colorado Springs, CO. 80920
719.575.0100 (p) 719.575.0208 (f)
www.matrixdesigngroup.com

**EXHIBIT A
PARCEL DESCRIPTION
(BURDENED PROPERTY)**

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WATER RESOURCES
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TRACT "A" OF GLENARM SUBDIVISION, ACCORDING TO THE OFFICIAL PLAT THEREOF
RECORDED JUNE 5TH, 2007 IN THE OFFICE OF THE EL PASO COUNTY CLERK AND RECORDER
UNDER RECEPTION NUMBER 207712593, BEING LOCATED IN THE SOUTHWEST ONE-QUARTER
OF SECTION 3, TOWNSHIP 15 SOUTH, RANGE 86 WEST, OF THE 6TH PRINCIPLE MERIDIAN, EL
PASO COUNTY, COLORADO.



ROBERT LEE MEADOWS, JR PLS 34977
PREPARED FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.

Colorado Springs

Denver

Phoenix

Atlanta

Sacramento

Page 1 of 4

S:\08.442.001.000\STRATMOOR HILLS\SURVEY\LEGAL\STRATMOOR HILLS WELL EASEMENT EXHIBIT A R1.DOC



Matrix Design Group Inc.
Integrated Design Solutions

2435 Research Parkway, Suite 300
Colorado Springs, CO. 80920
719.575.0100 (p) 719.575.0208 (f)
www.matrixdesigngroup.com

SEP 14 2012

EXHIBIT B
PARCEL DESCRIPTION
(WELL EASEMENT)

WATER RESOURCES
STATE ENGINEER
COLO.

A PORTION OF LAND BEING A PART OF TRACT 'A' OF GLENARM SUBDIVISION, ACCORDING TO THE OFFICIAL PLAT THEREOF RECORDED JUNE 5TH, 2007 IN THE OFFICE OF THE EL PASO COUNTY CLERK AND RECORDER UNDER RECEPTION NUMBER 207712593 LOCATED IN THE SOUTHWEST ONE-QUARTER OF SECTION 3, TOWNSHIP 15 SOUTH, RANGE 66 WEST, OF THE 6TH PRINCIPLE MERIDIAN, EL PASO COUNTY, COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE NORTH END OF THAT CERTAIN SOUTHWESTERLY LINE OF LOT 1 OF SAID GLENARM SUBDIVISION LABELED AS NORTH 37° 25'46", 245.87 FEET; THENCE ALONG THE EXTERIOR OF SAID GLENARM SUBDIVISION THE FOLLOWING SIX COURSES:

- 1) THENCE NORTH 37°25'40" WEST, A DISTANCE OF 178.77 FEET;
- 2) THENCE NORTH 25°58'05" WEST, A DISTANCE OF 78.81 FEET;
- 3) THENCE NORTH 00°10'48" WEST, A DISTANCE OF 87.09 FEET;
- 4) THENCE SOUTH 89°18'19" EAST, A DISTANCE OF 688.29 FEET,
- 5) THENCE SOUTH 00°41'41" WEST, A DISTANCE OF 75.72 FEET;
- 6) THENCE SOUTH 11°06'26" WEST, A DISTANCE OF 59.31 FEET, TO THE MOST NORTHERLY CORNER OF SAID TRACT A;

THENCE SOUTH 00°10'00" WEST, A DISTANCE OF 82.97 FEET TO THE POINT OF BEGINNING;

THENCE SOUTH 53°42'00" EAST, A DISTANCE OF 20.00 FEET;

THENCE SOUTH 36°18'00" WEST, A DISTANCE OF 20.00 FEET;

THENCE NORTH 53°42'00" WEST A DISTANCE OF 20.00 FEET;

THENCE NORTH 36°18'00" EAST, A DISTANCE OF 20.00 FEET TO THE POINT OF BEGINNING

CONTAINING 400 SQUARE FEET OR 0.0092 ACRES, MORE OR LESS.

Colorado Springs

Denver

Phoenix

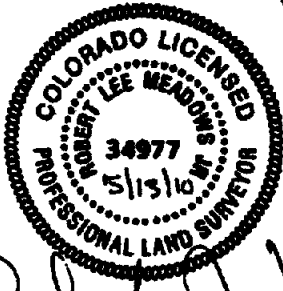
Atlanta

Sacramento

May 13, 2010
Subject: Well Site Description
Page 3 of 4

A GRAPHICAL DEPICTION, EXHIBIT "C", OF THE ABOVE DESCRIBED PARCEL IS ATTACHED
HERETO AS AN AID IN THE INTERPRETATION OF THE WRITTEN DOCUMENT.

THE BASIS OF BEARINGS FOR THE ABOVE DESCRIBED PARCEL IS THAT CERTAIN
SOUTHWESTERLY LINE OF SAID LOT 1 LABELED AS NORTH 37°25'46" WEST, 245.87 FEET BEING
MONUMENTED ON EACH END BY A FOUND REBAR AND PLASTIC CAP STAMPED "LS 20681".



ROBERT LEE MEADOWS, JR PLS 34977
PREPARED FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.

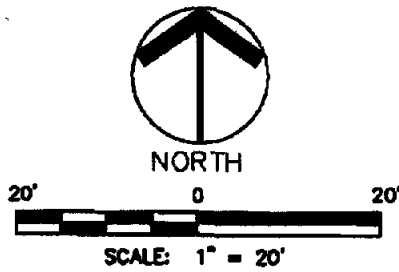
RECEIVED
SEP 14 2012
WATER RESOURCES
STATE ENGINEER
COLO.

Matrix Design Group, Inc.

This letter is intended only for the personal and confidential use of the recipient(s) named above.
This message may be an attorney-client communication and/or work product and as such is privileged and confidential.

S:\09.442.001.000(Stratmoor Hills)\Survey\Legal\Stratmoor Hills Well Easement Exhibit B r1.doc

EXHIBIT "C"



NORTH CORNER TRACT "A"
GLENARM SUBDIVISION
(RECEPTION NO. 207712593)

LOT 1, GREGORY
SUBDIVISION FILING NO. 1
(REC NO. 99138101)

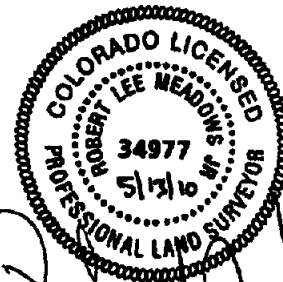
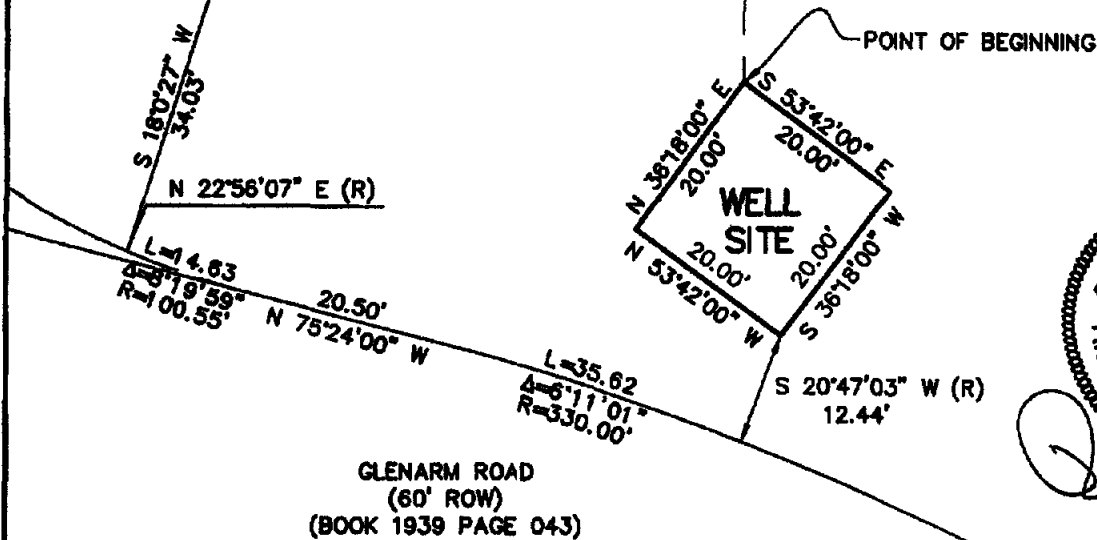
RECEIVED

SEP 14 2012

WATER RESOURCES
STATE ENGINEER
COLO.

LOT 1
GLENARM SUBDIVISION
(RECEPTION NO. 207712593)

TRACT "A"
GLENARM SUBDIVISION
(REC NO. 207712593)



AREA = 400.00 S.F.



Matrix Design Group, Inc.

Integrated Design Solutions

2435 Research Parkway, Suite 300
Colorado Springs, CO 80920
Phone 719-575-0100
Fax 719-575-0208

WELL SITE EASEMENT

STRATMOOR HILLS WATER DISTRICT

DRAFTED BY: HAS	DATE 05/13/10	SHEET
CHECKED BY: RLM	JN: 09.442.001	4 OF 4

S:\09.442.001.000(Stratmoor Hills)\dwg\Well Site cwg

STATE OF COLORADO

BOARD OF EXAMINERS OF WATER WELL CONSTRUCTION AND PUMP INSTALLATION CONTRACTORS Division of Water Resources

1313 Sherman Street, Room 818
Denver, CO 80203
Phone (303) 866-3581
FAX (303) 866-3589

<http://www.water.state.co.us/boc>

Todd Moore, License No. 1305
Arkansas Valley Drilling
600 Canon Ridge RD
Canon City, CO 81212

September 18, 2012



John W. Hickenlooper
Governor

Mike King
Executive Director, DNR

Scott Cuthbertson, P.E.
Secretary

Re: Alleged Statute/Rule Violations: Construction of a Well without a Valid Well Permit

File No.: 12-BC-012

Dear Mr. Moore;

This letter is to advise you of alleged violations of the Water Well Construction Rules, 2 CCR 402-2, and/or Colorado Revised Statutes and solicit your response to the allegations. The nature of the alleged Rules/Statute violations is set forth below:

On September 14, 2012, the Division received a Well Construction and Test Report from Arkansas Valley Drilling for a well constructed for Stratmoor Hills Water District. Received with the report was an application to permit the well. It listed the location as the NE ¼ of the SW ¼ of Section 3, Township 15 South, Range 66 West, Sixth P.M. in El Paso County. At the time the well was constructed, no valid well permit existed to construct a new well. Such construction is a violation of Rules 6.2, 6.2.2, and 6.2.2.1 of the Water Well Construction Rules, 2 CCR 402-2.

1. It is alleged that, Todd Moore, License No. 1305, constructed a well without a valid well permit authorizing such construction as required by Rules 6.2, 6.2.2, and 6.2.2.1 of the Water Well Construction Rules, 2 CCR 402-2.

Your **written response** to the alleged violation of the referenced Water Well Construction Rules is **required within 20 days** of receipt of this letter. Please provide any information that will clarify or correct the situation described in the paragraphs above. You may contact me at (303) 866-3581 if you have questions regarding this matter.

Thank you for your cooperation.

Sincerely,

Nolan W. Lloyd
Chief Well Inspector

cc: Stratmoor Hills Water District



DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

November 21, 2012

John W. Hickenlooper
Governor

Mike King
Executive Director

Dick Wolfe, P.E.
Director/State Engineer

Gordon Halvorson
Stratmoor Hills Water District
1811 B Street
Colorado Springs, CO 80806

Re: Well Permit Application Receipt No. 3657014 for Permit to Construct a Replacement Well for Well Permit No. 3772-F, Stratmoor Well No. 5, Case No. W-3172; WDID #1005569

Dear Mr. Halvorson:

The referenced well permit application to construct a new well as a replacement well for existing well, Permit No. 3772-F is being returned for the following reasons. Based on a review of our records and field investigation by our staff of our Division 2 office in Pueblo, CO, your stated well site was determined to be within 600 feet of other existing wells that do not appear to be owned by Stratmoor Hills Water District ("District"). At least three existing wells are believed to be within 600 feet of the District's well site for the subject replacement well. The information and contacts we have based on our records and investigations are as follows:

- **Permit No. 223843;** WDID #1005383; Located in the Elm Crest Mobile Home Park; Contact is Wes Kennedy at (719) 651-8570.
- **Permit No. 19464-T;** WDID #1005641; Located southwest of the subject well, and owned by Colorado Springs Utilities.
- **Permit No. 15712-R;** WDID #1005931; Located northwest of the subject well; Contact is Jim Raughton at (719) 390-6865.

These are the wells within 600 feet of the subject well that were identified by our field investigation. There may be other existing wells that are not of record in the State Engineer's office, and if so, the District should identify these wells and seek to obtain 600-foot well spacing waiver statements from their owners also.

The provisions of Colorado Revised Statute 37-90-137(2) prohibit the issuance of a permit for a well to be located within 600 feet of any existing well that is not owned by the applicant, unless the State Engineer finds that circumstances so warrant after a hearing is held in accordance with the procedural rules of 2CCR 402-5.

The hearing process may be avoided if you are able to obtain a 600-foot well spacing waiver statement from the owner of each existing well within 600 feet, stating that they have no objection to the issuance of a permit to the District for use of their new replacement well that is within 600 feet of their wells. A waiver statement is enclosed for your use and can be photocopied for additional waivers. If you are able to obtain the necessary waiver statement from the owners of all wells within

Office of the State Engineer

1313 Sherman Street, Suite 818 • Denver, CO 80203 • Phone: 303-866-3581 • Fax: 303-866-3589

<http://water.state.co.us>

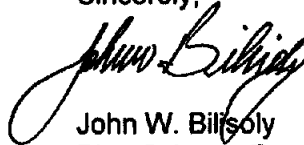
600 feet of the District's subject well, please submit them with the enclosed permit application form when returning it to this office to my attention.

If you choose not to attempt to obtain the necessary waiver statements, or are unable to obtain all of them, the application should be returned to this office and we should be advised of this. We will then send a legal notice by certified mail to well owners of record, advising them of your application for a permit to construct a new replacement well as a replacement for existing well Permit No. 3772-F, and that we believe the District's subject well site is within 600 feet of their wells. The notice shall require them to submit a written response within 30 days of the date of the legal notice, stating why the State Engineer should not grant the District's requested well permit. If any timely response is received from any of the well owners, staff of the State Engineer's office will forward a copy of the District's application, the mailed legal notice, and any timely responses received to the State Engineer's Hearing Officer to initiate the hearing process, and for further action. If no responses from any of the well owners are received timely, the hearing process does not have to proceed forward, and evaluation of the District's permit application can be completed.

In Item 7 on the permit application, the annual amount of ground water to be withdrawn is stated as 600 acre-feet. Please provide an explanation as to how this amount was determined. If referenced in one of the District's court cases, please provide the case number, page and paragraph reference. Additionally, in Item 3, all applicable court cases need to be referenced. If more space is needed, please provide the information in a cover letter with the application.

If you have any questions, please contact me.

Sincerely,



John W. Bilisoly
Phy. Science Researcher/Scientist

JWB/
Enclosure (a/s)

Cc: Janet Garoutte, Well Commissioner, Division 2 (via email)
Doug Hollister, Water Commissioner, District 10 (via email)

IMPORTANT NOTICE! PLEASE BE ADVISED THAT THE WELL PERMIT APPLICATION AND REQUESTED INFORMATION MUST BE RE-SUBMITTED AND RECEIVED BY THIS OFFICE BY *JANUARY 21, 2013 TO RETAIN ACTIVE STATUS OF THE APPLICATION. IF NOT RECEIVED BY THAT DATE, THE APPLICATION WILL BE CONSIDERED TO HAVE BEEN WITHDRAWN, AND IF RECEIVED AFTER THAT DATE WILL BE ASSESSED THE CURRENT FILING FEE IN EFFECT AT THAT TIME. * Per phone request by Melanie Jollett of Matrix Design Group, consultants for Applicant, this day was extended to March 21, 2013 to give Applicant more time to work through issues. → 1/17/2013



State
of
Colorado

Stratmoor well 5 application

Hollister, Doug <doug.hollister@state.co.us>

Tue, Nov 20, 2012 at 3:27 PM

To: Janet Garoutte <janet.garoutte@state.co.us>, John Bilisoly <john.bilisoly@state.co.us>

Cc: "VanOort, John" <john.vanoort@state.co.us>, Rachel Zancanella <rachel.zancanella@state.co.us>

Janet,

After looking at a few more items and decrees 91CW24 and 08CW44 that are plans of augmentation for Stratmoor after the consolidated W-3935/W-4237 aug plan, the 600 AF requested as the annual pumping limit is still a mystery. I said the Exhibit A widefield Aquifer Stipulation was in case W117, well I was wrong, it is in case W116. There is a 40 page restated stipulation in Laserfiche as part of case W116 under filing ID 25206680 that states the limits at this link <http://dnrimaging/DWRImaging/0/doc/1910506/Page1.aspx?searchid=99f29916-4fb4-46f3-83ac-1f80ed2e792f>

Stratmoor's limits are in paragraph 9 on page 9. Without recharge, which has failed at almost every attempt, Stratmoor can pump from wells "SH4, SH5, SH8, SH9 and SH10 at a Base Level Pumping rate of not more than 120 AF per month, no more than 380AF in any successive four month period nor more than 700 AF in any calendar year." This statement is also in decrees 91CW24 and 08CW44.

Hopefully this helps clarify the limits and I think the application should be returned because I do not know where the applicant came up with an annual limit of 600 AF. Please let me know if you want more information.

Doug Hollister
Water Commissioner
Division 2 District 10
4255 Sinton Road
Colorado Springs, CO 80907
Office 719-227-5291
doug.hollister@state.co.us

Garoutte, Janet <janet.garoutte@state.co.us>

Tue, Nov 20, 2012 at 4:17 PM

To: "Hollister, Doug" <doug.hollister@state.co.us>

Cc: John Bilisoly <john.bilisoly@state.co.us>, "VanOort, John" <john.vanoort@state.co.us>, Rachel Zancanella <rachel.zancanella@state.co.us>

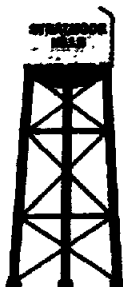
Thank you for the info, we would not have known this.

[Quoted text hidden]

Janet Garoutte
DWR, Division 2
310 E. Abriendo, Ste. B
Pueblo, CO 81004
719-542-3368, extension 2101

RECEIVED

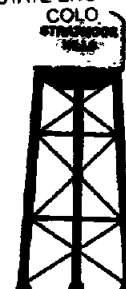
APR 24 2013



**STRATMOOR HILLS WATER &
SANITATION DISTRICTS**

1811 B STREET, COLORADO SPRINGS, COLORADO 80906
Office Ph. 719-576-0311 Fax. 719-576-0313

WATER RESOURCES
STATE ENGINEER



January 29, 2013

1811 B Street
Colorado Springs, CO 80906

Mr. Jim Raughton
3115 Glenarm Road
Colorado Springs, CO 80911

RE: 600 Foot Well Spacing Statement

Dear Mr. Raughton:

Enclosed is form GWS-38 from the Colorado Division of Water Resources. This form is a statement acknowledging that the Stratmoor Hills Water District's (District) re-drilled well is within 600 feet of your well, permitted under Permit 15712-R. The waiver statement is required by the Colorado Division of Water Resources to confirm that you do not have any objections to the issuance of the well permit.

As you are aware, the District obtained an easement from you to re-drill their existing Well #5. The new location of the well is located approximately 180 feet from your well. Included with this letter is a copy of the well permit application filed by the District. If you have no objections to the issuance of the well permit for the re-drilled well, please sign and date the enclosed waiver statement and return the waiver statement to Stratmoor Hills Water District in the enclosed envelope.

If you have any questions or need more information, please call me or Ralph Ravenscroft at 576-0311. Thank you for your assistance to the Stratmoor Hills Water District.

Sincerely,

Gordon Halverson
Stratmoor Hills Water District

A handwritten signature in black ink, appearing to read "Gordon Halverson".

Attachments: Form GWS-38
Stratmoor Hills Water District Well #4 Permit

APR 24 2013

GWS-38

600 FOOT WELL SPACING STATEMENT

WATER RESOURCES
STATE ENGINEER
COLOI (we) Jim Raughton state as follows:

1. I (we) own real property described as an approved well location
in the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$, Section 3, Township 15 S, Range 66 W,
Sixth P. M., El Paso County, Colorado. We own the right and easement to the
following well:

Permit #	$\frac{1}{4}$	$\frac{1}{4}$	Sec.	Twp.	Rng.	Actual Distance from N/S Sec. Line	Actual Distance from E/W Sec. Line
15712-R	NE	SW	3	15S	66W	2110 ft. from S	3260 ft. from E

2. I (we) have been apprised that Stratmoor Hills Water District, who has obtained
an easement from me, the present owner of a parcel of land in the NE $\frac{1}{4}$, of the
SW $\frac{1}{4}$, Section 3, Township 15 S, Range 66 W, Sixth P.M., desire to drill a
new well or extend the use of an existing well. I (we) also understand that the
purpose of such well is set forth in the well permit application, and that I (we)
have reviewed the application that was submitted to the State Engineer and
receipted by him under receipt no. 3657014.
3. The proposed location for the subject well will be 600 feet or less from my (our)
well.
4. By this statement I (we) am (are) specifically waiving any objection to the
issuance of a well permit for the subject well, as set forth in the referenced
application, and would request that permit issuance not be postponed or denied
because of any concerns by the Division or others that the proposed well will

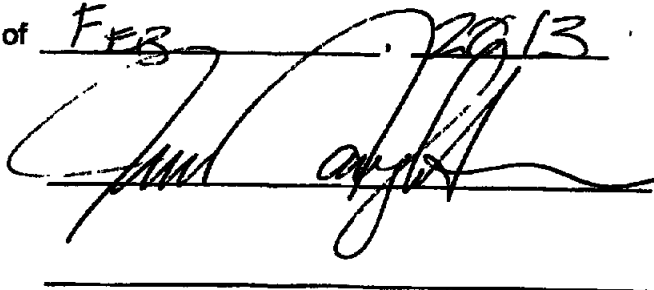
RECEIVED

APR 24 2013

materially affect my (our) well or water right. I (we) am (are) also specifically
waiving my (our) right I (we) may have to participate in a hearing before the State
Engineer pursuant to Section 37-90-137(2), C.R.S.

WATER RESOURCES
STATE ENGINEER
COLO

Dated this Eighth day of FEB, 2013.

A handwritten signature in black ink, appearing to be "John Smith", is written over a horizontal line. Below this line is another horizontal line.

RECEIVED

APR 24 2013

WATER RESOURCES
STATE ENGINEER
COLO

March 5, 2013

1811 B Street
Colorado Springs, CO 80906

Mr. Wes Kennedy
PO Box 6962
Colorado Springs, CO 80934

RE: 600 Foot Well Spacing Statement

Dear Mr. Kennedy:

Enclosed is form GWS-38 from the Colorado Division of Water Resources. This form is a statement acknowledging that the Stratmoor Hills Water District's (District) re-drilled well is within 600 feet of your well, permitted under Permit 223843. The waiver statement is required by the Colorado Division of Water Resources to confirm that you do not have any objections to the issuance of the well permit.

The District has recently re-drilled their Well #4. The new location of the well is located approximately 520 feet from your well. Included with this letter is a copy of the well permit application filed by the District. If you have no objections to the issuance of the well permit for the re-drilled well, please sign and date the enclosed waiver statement and return the waiver statement to Stratmoor Hills Water District in the enclosed envelope.

If you have any questions or need more information, please call me or Ralph Ravenscroft at 576-0311. Thank you for your assistance to the Stratmoor Hills Water District.

Sincerely,

Gordon Halverson
Stratmoor Hills Water District

Attachments: Form GWS-38
Stratmoor Hills Water District Well #4 Permit

RECEIVED

APR 24 2013

WATER RESOURCES
STATE ENGINEER
COLO

GWS-38

600 FOOT WELL SPACING STATEMENT

I (we) Wes Kennedy state as follows:

1. I (we) own real property described as an approved well location
in the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$, Section 3, Township 15 S, Range 66 W,
Sixth P. M., El Paso County, Colorado. We own the right and easement to the
following well:

Permit #	$\frac{1}{4}$	$\frac{1}{4}$	Sec.	Twp.	Rng.	Actual Distance from N/S Sec. Line	Actual Distance from E/W Sec. Line
223843	NE	SW	3	15S	66W	2620 ft. from S	2400 ft. from W

2. I (we) have been apprised that Stratmoor Hills Water District, the present owners
of a parcel of land in the NE $\frac{1}{4}$, of the SW $\frac{1}{4}$, Section 3, Township 15 S,
Range 66 W, Sixth P.M., desire to drill a new well or extend the use of an
existing well. I (we) also understand that the purpose of such well is set forth in
the well permit application, and that I (we) have reviewed the application that was
submitted to the State Engineer and receipted by him under receipt no. 3657014.
3. The proposed location for the subject well will be 600 feet or less from my (our)
well.
4. By this statement I (we) am (are) specifically waiving any objection to the
issuance of a well permit for the subject well, as set forth in the referenced
application, and would request that permit issuance not be postponed or denied
because of any concerns by the Division or others that the proposed well will
materially affect my (our) well or water right. I (we) am (are) also specifically

RECEIVED

APR 24 2013

waiving my (our) right I (we) may have to participate in a hearing before the State Engineer pursuant to Section 37-90-137(2), C.R.S.

WATER RESOURCES
STATE ENGINEER
COLO

Dated this _____ day of _____, _____



2435 Research Parkway, Suite 300
Colorado Springs, Colorado 80920
Phone: 719.575.0100
Fax: 719.575-0208
matrixdesigngroup.com

April 24, 2013

John W. Bilisoly
State of Colorado Department of Natural Resources
Division of Water Resources
1313 Sherman Street, Suite 818
Denver, CO 80203

RECEIVED

APR 24 2013

WATER RESOURCES
STATE ENGINEER
COLO

Re: Well Permit Application Receipt No. 3657014 for Permit to Construct a Replacement Well for Well Permit No. 3772-F, Stratmoor Well No. 5, Case No. W-3172; WDID #1005569

Mr. Bilisoly:

Enclosed is the resubmittal of the referenced well permit application to construct a new well as a replacement well for existing well, Permit No. 3772-F. We have addressed your comments dated November 21, 2012.

We have provided a 600-foot waiver statement to each well owner within 600 feet of the proposed location for the re-drilled well. Letters and waiver statements were delivered to the following well owners:

- Permit No. 15712-R; Contact Jim Raughton
- Permit No. 223843; Contact Wes Kennedy

We have received a returned signed application from Jim Raughton. We have not heard back from Wes Kennedy. Referenced in your letter dated November 21, 2012 was Permit No. 19464-T. We reviewed this well, and determined it was further than 600-feet away from the proposed location for the re-drilled well and have not reached out to the owner if this well. Copies of the letters and waiver statement forms for Permit No. 15712-R and 223843 are included as enclosures to this letter.

You requested an explanation for Item 7 on the application. The 600-acre feet listed as the annual amount to be withdrawn is based on previous usage rates from the existing well. This number was not determined through a water court case. Stratmoor Hills Water District does not have any court cases on file.

April 24, 2013

Page 2

We have addressed each requirement as provided above. Please review our responses, and if you have any questions or comments please don't hesitate to contact me by phone at 719-575-0100. Thank you for all of your help with this project.

Sincerely,

A handwritten signature in black ink that reads "Melanie Jollett". The signature is written in a cursive, flowing style.

Melanie Jollett, PE
Water Resources Engineer

Enclosure

Cc: Gordon Halvorson, Stratmoor Hills Water District (via email)



State
of
Colorado

Stratmoor Hills W.D., Replacement Well Permit App., Rec. #3657014; WDID 1005569

Billisoly - DNR, John <john.bilisoly@state.co.us>
To: Janet Garoutte - DNR <janet.garoutte@state.co.us>

Wed, May 1, 2013 at 10:43 AM

Janet,

I have attached the various well locations as we discussed.

Thanks,
John W. Bilisoly
Colorado Division of Water Resources
Department of Natural Resources
1313 Sherman Street, Ste. 821
Denver, CO 80203
office: 303-866-3581 ext. 8216; fax: 303-866-2223
email: john.bilisoly@state.co.us

stratmoor.pdf
93K

Garoutte - DNR, Janet <janet.garoutte@state.co.us>
To: "Billisoly - DNR, John" <john.bilisoly@state.co.us>
Cc: Julie Pearson - DNR <julie.pearson@state.co.us>

Wed, May 1, 2013 at 11:41 AM

From my excel sheet. Ignore the lat long, don't use them Footages are on far right. Here is a visual map. The original and illegal are 138 feet apart. Not sure if James Swank discussed the Raughton 15712R well or not.

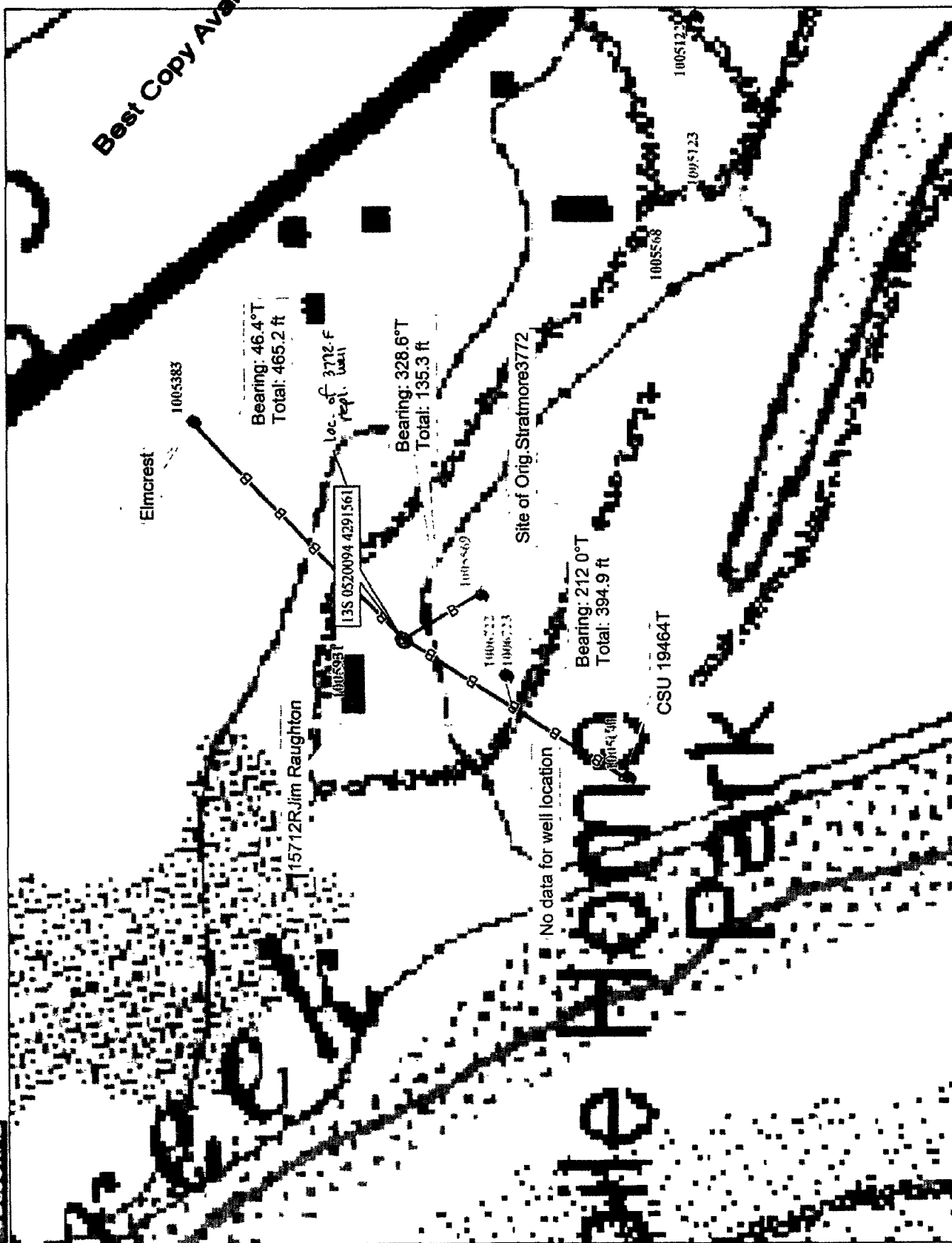
UTM shortcut to two points

Proposed Sites	Easting	Northing	Longitude	Latitude	Ft. Dist from Existing Well
Null/ignoreline			-104.35534	38.26406	14183527.14
Raughton1005931520064		4291584	-104.36632	38.26711	124.0287437
Elmcr1005383	520198	4291659	-104.36648	38.26715	468.8501932
csu1005641	520031	4291457	-104.36663	38.26722	357.1470606
origstrat1005569	520116	4291525	-104.36746	38.26738	138.4255416
illegExistWell1	520094	4291561	-104.36680	38.26539	

[Quoted text hidden]

Janet Garoutte
DWR, Division 2
310 E. Abriendo, Ste. B
Pueblo, CO 81004
719-542-3368, extension 2101

Best Copy Available



Data use subject to license.

© DeLorme XMap® 7.

www.delorme.com

Scale 1, 2,400

Temperature (°C)	Rate of Polymerization (g/hr)
0	0
20	0
40	10
50	40
60	95
70	80
80	60

1" = 200.0 ft

Well No. 10 Permit

COLORADO DIVISION OF WATER RESOURCES

THIS FORM MUST BE SUBMITTED
WITHIN 60 DAYS OF COMPLETION
OF THE WORK DESCRIBED HERE-
ON. TYPE OR PRINT IN BLACK
INK.

101 Columbine Bldg., 1845 Sherman St.
Denver, Colorado 80203

WELL COMPLETION AND PUMP INSTALLATION REPORT

PERMIT NUMBER

16404-P

EL Pass

62-F
2-6-73
Weld

WELL OWNER Stratmoor Hills Water & SanitationADDRESS 1811-B Street Colo. SpringsDATE COMPLETED Jan. 27, 1973

, 19

SW 1/4 of the SE 1/4 of Sec. 3

T. 15 S, R. 66 W, 6^m P.M.

HOLE DIAMETER

36 in. from 0 to 44 ft.

18 in. from 44 to 80 ft.

_____ in. from _____ to _____ ft.

CASING RECORD: Plain Casing

Size 18 & kind galv from 0 to 60 ft.

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

Perforated Casing

Size 18 & kind galv from 50 to 80 ft.

Size _____ & kind _____ from _____ to _____ ft.

Size _____ & kind _____ from _____ to _____ ft.

GROUTING RECORD

Material cement

Intervals _____

Placement Method _____

GRAVEL PACK: Size 3/4"

Interval 10-80

TEST DATA

Date Tested Jan. 26/27, 19 73

Static Water Level Prior to Test 44 ft.

Type of Test Pump turbine

Length of Test 24hr.

Sustained Yield (Metered) 780

Final Pumping Water Level 78

WELL LOG

From	To	Type and Color of Material	Water Loc.
0	41	sand, clay dry	
41	43	sand, clay damp to wet	
43	57	sand, loose and wet	
57	72	sand, with caly streaks, some gravel	
72	74	clay	
74	79	rocks, gravel, sand	
79	80	shale	
TOTAL DEPTH <u>80</u>			

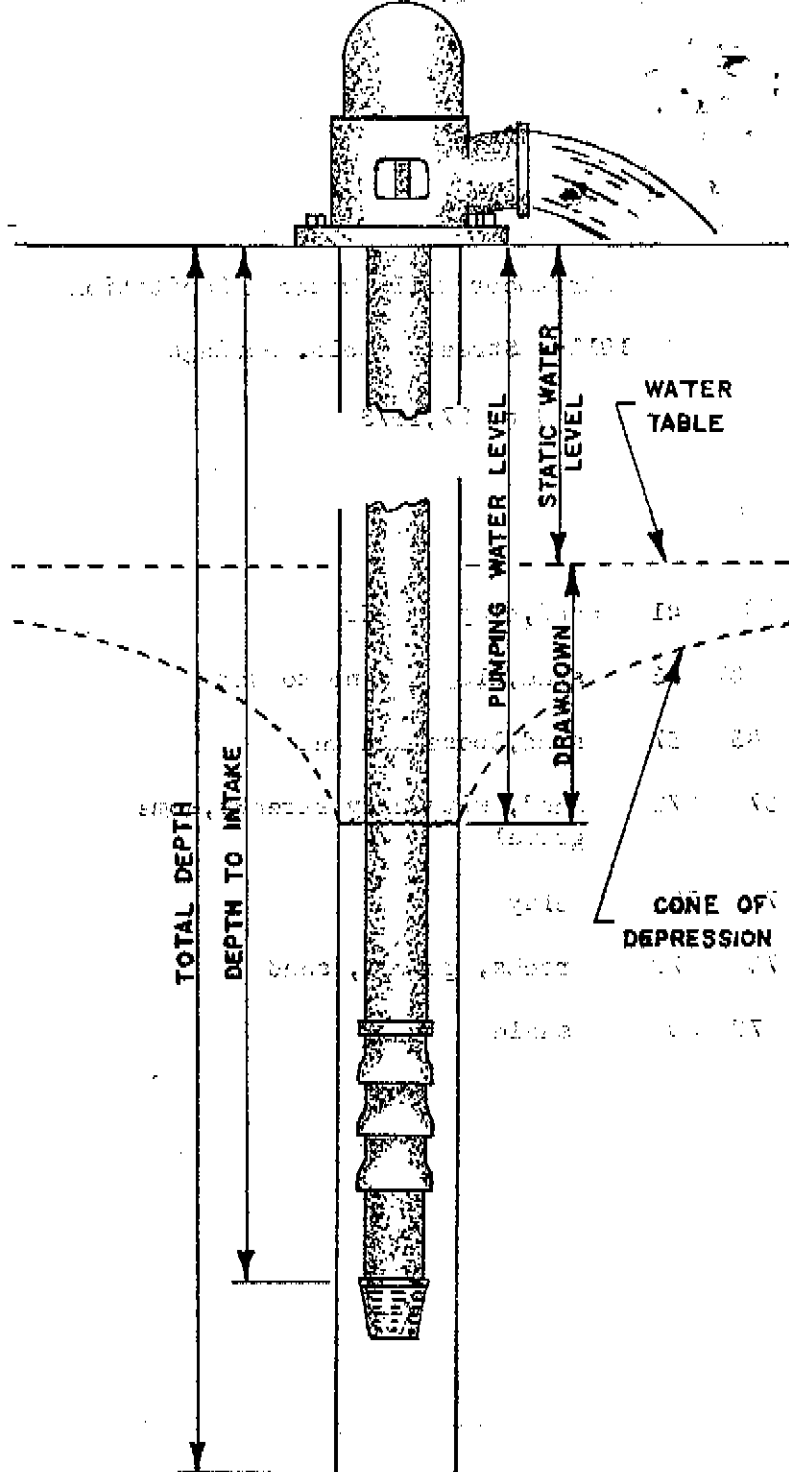
Use additional pages necessary to complete log.

PUMP INSTALLATION REPORT

Pump Make _____
 Type _____
 Powered by _____ HP _____
 Pump Serial No. _____
 Motor Serial No. _____
 Date Installed _____
 Pump Intake Depth _____
 Remarks _____

WELL TEST DATA WITH PERMANENT PUMP

Date Tested _____
 Static Water Level Prior to Test _____
 Length of Test _____ Hours
 Sustained yield (Metered) _____ GPM
 Pumping Water Level _____
 Remarks _____



CONTRACTORS STATEMENT

The undersigned, being duly sworn upon oath, deposes and says that he is the contractor of the well or pump installation described hereon; that he has read the statement made hereon; knows the content thereof, and that the same is true of his own knowledge.

Signature *Robert C. [illegible]* License No. 678

State of Colorado, County of *Jefferson* SS

Subscribed and sworn to before me this 29 day of Jan, 19 75.

My Commission expires Feb. 17, 1976, 19 ____.

Notary Public *Sammy A. Hull*

FORM TO BE MADE OUT IN QUADRUPPLICATE: WHITE FORM must be an original copy on both sides and signed. WHITE AND GREEN copies must be filed with the State Engineer. PINK COPY is for the Owner and YELLOW COPY is for the Driller.

THIS FORM MUST BE
SUBMITTED PRIOR TO
THE EXPIRATION OF THE
PERMIT. TYPE OR
PRINT IN BLACK INK.
COPY OF ACCEPTED
STATEMENT MAILED
ON REQUEST.

COLORADO DIVISION OF WATER RESOURCES

300 Columbine Bldg., 1845 Sherman St.
Denver, Colorado 80203

RECEIVED

OCT 23 73

FOR OFFICE USE ONLY

Div. 2 Cty. 21

X STATEMENT OF BENEFICIAL USE OF GROUND WATER
AMENDMENT OF EXISTING RECORD

WATER RESOURCES
STATE ENGINEER
COLOR.

PERMIT NUMBER 16A04

650
20 | 218

STATE OF COLORADO

COUNTY OF El Paso

SS.

LOCATION OF WELL

THE AFFIANT(S) Stratmoor Hills Water District
whose mailing address is 1811 "B" St. Colo. Springs, Colo.

County El Paso

City Colorado Springs, Colo. 80906

Twp. 15S Rng. 66W 6th P.M.

being duly sworn upon oath, deposes and says that he (they) is (are) in possession of the well described hereon; the well is located as described above, at distances of 1200 feet from the South section line and 1500 feet from the East section line; water from this well was first applied to a beneficial use for the purpose(s) described herein on the 1st day of APRIL, 1973; the maximum sustained pumping rate of the well is 650 gallons per minute, the pumping rate claimed hereby is 650 gallons per minute; the total depth of the well is 80 feet; the average annual amount of water to be diverted is 218 acre-feet; for which claim is hereby made for municipal

purpose(s); the legal description of the land on which the water from this well is used is Land within the boundaries of the Stratmoor Hills Water District which totals

1,000 acres and which is illustrated on the map Map attached that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

STRATMOOR HILLS WATER DISTRICT

Signature(s) by S. D. Lashelle, Secretary

Subscribed and sworn to before me on this 19th day of October, 1973

My Commission expires: March 9, 1976

James All Dief
NOTARY PUBLIC

ACCEPTED FOR FILING BY THE STATE ENGINEER OF COLORADO
PURSUANT TO THE FOLLOWING CONDITIONS:

FOR OFFICE USE ONLY

Court Case No. _____

Sec. _____ 1/4, _____ 1/4, _____ 1/4,

Well Use 8

Dist. 10 Basin _____ Man. Dis. _____

Prior. _____ Mo. _____ Day _____ Yr. _____

DATE

STATE ENGINEER

BY

Well drilled by DENVER PUMP & IRRIGATION CO.,

Lic. No. 678

Pump installed by " " " "

Lic. No. 678

Meter Serial No. #10 2664970

☐ Flow Meter

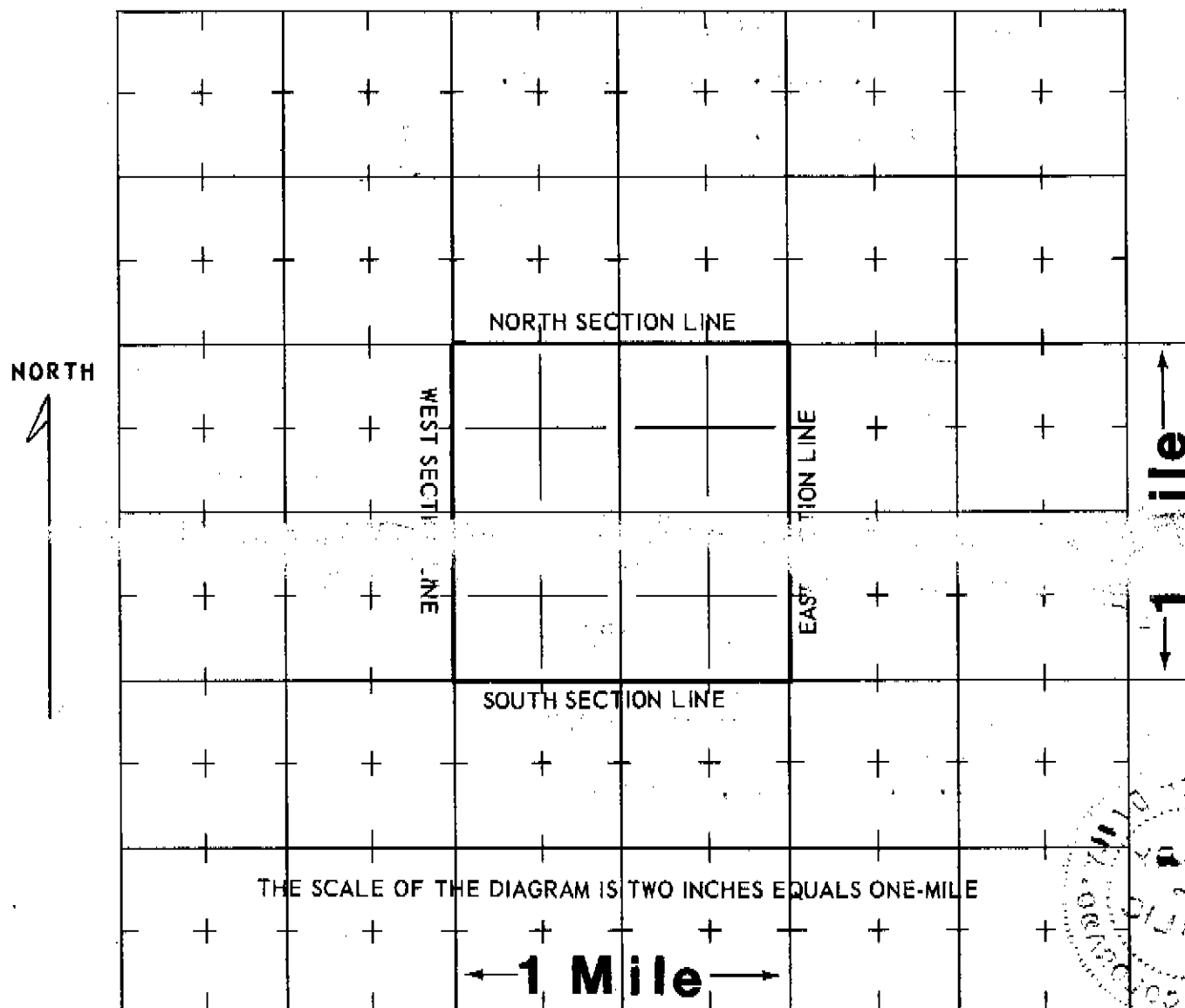
☒ Electric Meter

☐ Fuel Meter

Owner of land on which
water is being used _____

**THE LOCATION OF THE WELL MUST BE SHOWN AND THE AREA ON WHICH THE WATER IS USED
MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW.**

This diagram represents nine (9) sections. Use the **CENTER SQUARE**
(one section) to indicate the location of the well, if possible.



WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep.

1 cubic foot per second (cfs) . . . 449 gallons per minute (gpm).

1 acre-foot . . . 43,560 cubic feet . . . 325,900 gallons.

1,000 gpm pumped continuously for one day produces 4.42 acre-feet.

100 gpm pumped continuously for one year produces 160 acre-feet.

62F
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MAY 25 '72
WATER RESOURCES
STATE ENGINEERING
DIVISION

TYPE OR PRINT IN BLACK INK. APPLICATION MUST BE COMPLETED BEFORE ACCEPTANCE

Note this well is to be moved in order to construct new highway
APPLICATION FOR:

☒ A PERMIT TO USE GROUND WATER
☒ A PERMIT TO CONSTRUCT A WELL
☒ REPLACEMENT FOR NO. 21616
☒ A PERMIT TO INSTALL A PUMP
OTHER _____

GROUND WATER TO BE USED FOR:

☐ DOMESTIC (1) ☐ COMMERCIAL (4)
☐ LIVESTOCK (2) ☐ INDUSTRIAL (5)
☒ MUNICIPAL (8) ☒ WATER RESOURCES
STATE ENGINEERING
DIVISION
OTHER _____

APPLICANT Stratmoor Hills Water & Sanitation

WELL LOCATION

COUNTY El PasoStreet Address 1811 B StreetSW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section #3City & State Colorado SPRINGS, COLO., 80906T. 15 S, R. 66 W, 6 P.M.

Telephone No. _____

NAME OF AQUIFER GROUND WATER IS TO BE OBTAINED

FROM: AlluviumIN ADDITION TO THE ABOVE, THE WELL MUST BE
LOCATED WITH REFERENCE TO GOVERNMENT SURVEY
CORNERS, MONUMENTS OR SECTION LINES BY DISTANCE
AND BEARING (DOMESTIC WELLS MAY BE LOCATED BY
LOT, BLOCK, & SUBDIVISION.)PROPOSED TOTAL DEPTH OF WELL 75 Ft.1200 ft. from South section lineESTIMATED MAXIMUM PUMPING RATE 650 GPM1500 ft. from East section line
(North or South)
(East or West)

AVERAGE ANNUAL AMOUNT OF GROUND WATER TO BE

APPROPRIATED 218 Acre-feet

LOT _____ BLOCK _____ FILING # _____

ANTICIPATED GROUT PROGRAM

SUBDIVISION _____

Material cement

Ground Water Basin _____

Intervals 0-10Water Mgmt. Dist. 10Placement Method pourAnticipated drilling date June 19 72

PROPOSED CASING:

Owner of land on which well
is located: _____Plain 18 in. from 0 ft. to 50 ft.

Other water rights on this land _____

in. from _____ ft. to _____ ft.

Perf. 18 in. from 50 ft. to 75 ft.

in. from _____ ft. to _____ ft.

Driller Denver Pump & Irrig No. 678Signature of Applicant
Robert C. [Signature]Address P.O. Box 421-Fountain, Colo

IF WELL IS USED FOR IRRIGATION, BACK SIDE OF THIS APPLICATION MUST BE COMPLETED. 3/179

FOR OFFICE USE ONLY

CONDITIONS OF APPROVAL

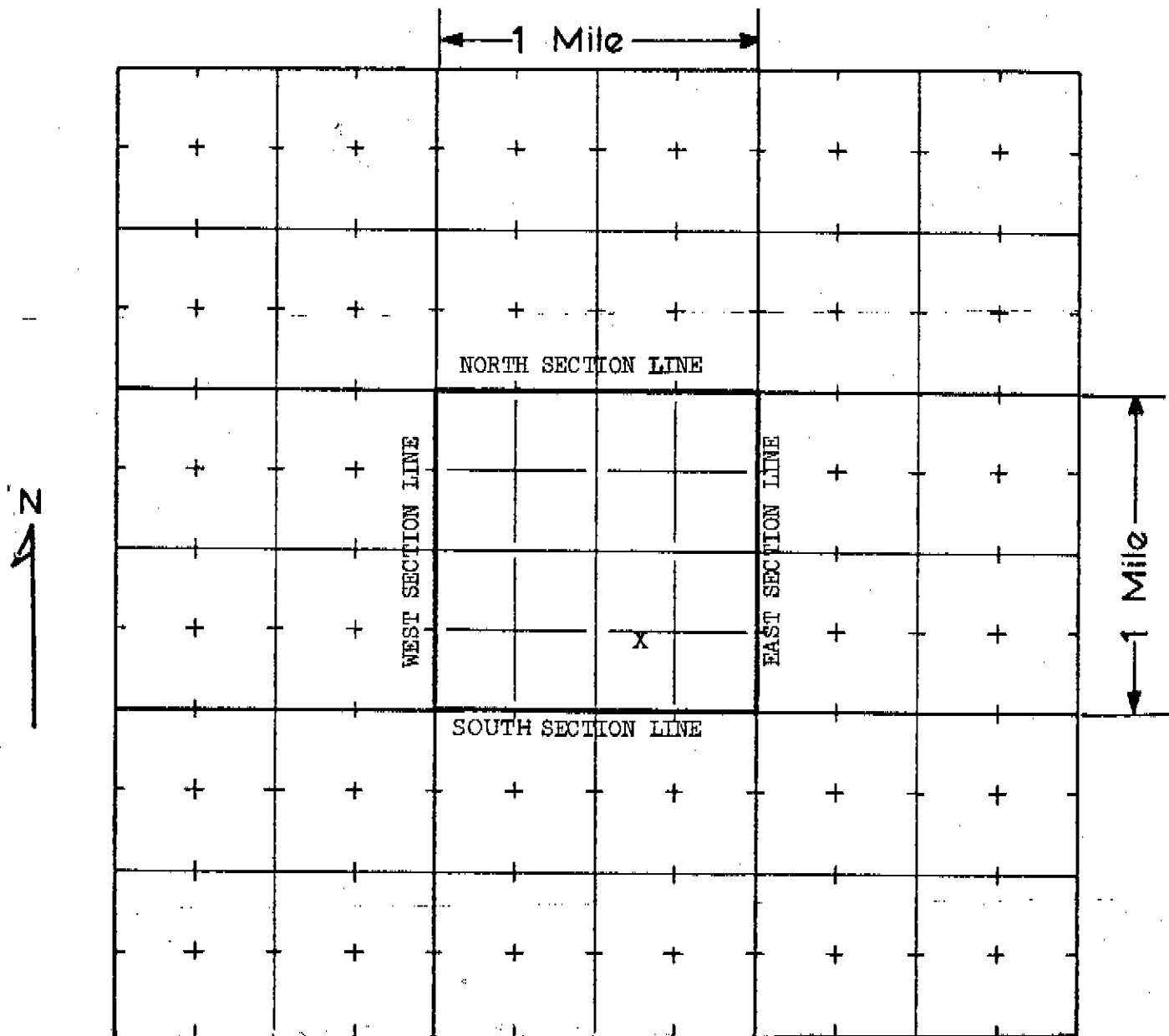
APPLICATION APPROVED: VALID FOR ONE (1) YEAR
AFTER DATE ISSUED UNLESS EXTENDED FOR GOOD
CAUSE SHOWN TO THE ISSUING AGENCY.PERMIT NO. 016404-FDATE ISSUED AUG 15 1972

STATE ENGINEER

BY [Signature]

THE LOCATION OF THE PROPOSED WELL MUST BE SHOWN AND THE AREA TO BE IRRIGATED MUST BE SHADED OR CROSS-HATCHED ON THE DIAGRAM BELOW

This diagram represents nine (9) sections. Use the CENTER SQUARE (one section) to indicate the location of the well, if possible.



THE SCALE OF THE DIAGRAM IS TWO INCHES EQUALS ONE-MILE

See att. decrees from Harrison

Amount of irrigated land _____ Number of acres to be irrigated _____

Legal description of irrigated land _____

WATER EQUIVALENTS TABLE (Rounded Figures)

An acre-foot covers 1 acre of land 1 foot deep.
 1 cubic foot per second (cfs) 449 gallons per minute
 1 acre-foot 43,560 cubic feet 325,900 gallons.
 1,000 gpm pumped continuously for one day produces 4.42 acre-feet.
 100 gpm pumped continuously for one year produces 160 acre-feet.

THIS FORM MUST BE
SUBMITTED PRIOR TO
THE EXPIRATION OF THE
PERMIT. TYPE OR
PRINT IN BLACK INK.

COLORADO DIVISION OF WATER RESOURCES

101 Columbine Bldg., 1845 Sherman St.

Denver, Colorado 80203

☒ STATEMENT OF BENEFICIAL USE OF GROUND WATER
☒ AMENDMENT OF EXISTING RECORD

PERMIT NUMBER 21616

RECEIVED

JUN 15 '72

WATER RESOURCES
STATE ENGINEER
C.O.D.

STATE OF COLORADO
COUNTY OF El Paso

SS. Note: The number indicated on this report, #21616 is a Map Filing Number (not a permit number) that relates to a map of the original Tony Pinello Well #1. This well is believed to be abandoned, as Permit # 16404-F was issued as a replacement well for this unregistered, Pre-1972 well.

-LAN 9/11/2013

THE AFFIANT(S) Stratmoor Hills Water District

whose address is 1811-B Street Colorado Springs, Colorado 80906

being duly sworn upon oath, deposes and says that he (they) is (are) the owner(s) of the well described hereon; the well is located in the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 3, Township 15 S (N. or S.)

Range 66 W (E. or W.) 6 P.M. at distances of 1200 feet from the South section line (North or South)

and 1395 feet from the east section line; the total depth of the well is 74 feet; water from this well (East or West)

was first applied to a beneficial use for the purpose(s) described herein on the 1 day of April, 1959

the maximum sustained pumping rate of the well is 680 gallons per minute, the pumping rate claimed hereby is 680

gallons per minute; the average annual amount of water to be diverted is 218 acre-feet; for which claim is hereby

made for municipal purpose(s); the legal description of the land on which the water

from this well is to be used is lands-homes inside Stratmoor Hills Water Dist.

which totals _____ acres and which is illustrated on the map on the reverse side of this form; that this well was completed in compliance with the permit approved therefor; this statement of beneficial use of ground water is filed in compliance with law; he (they) has (have) read the statements made hereon; knows the content thereof; and that the same are true of his (their) knowledge.

Signature(s) Robert C. Hull
Robert C. Hull for Stratmoor Hills Water Dist.
Subscribed and sworn to before me on this 16th day of

June, 1972.

My Commission expires: 2/17/76

(Seal)

Sammy A. Hull
Notary Public

ACCEPTED FOR FILING IN THE OFFICE OF THE STATE ENGINEER OF
COLORADO ON THIS _____ DAY OF _____, 19____.

STATE ENGINEER

WHITE COPY FOR DIVISION OF WATER RESOURCES
PINK COPY FOR WELL OWNER

FOR OFFICE USE ONLY

Prior Date _____, 19____

Well Use _____

$\frac{1}{4}$, $\frac{1}{4}$, $\frac{1}{4}$, Sec. _____

T. _____, R. _____, P.M.

Yield _____ W.D. _____

Co. _____

Index _____

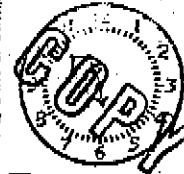
RECEIVED

JUN 7 '72

WATER RESOURCES
STATE ENGINEER
COLOR.

Filed in this office the Clerk,
District Court Water Division
No. 2 State of Colorado

MAY 26 72 AM



Francis J. Lingo
CLERK

IN THE DISTRICT COURT IN AND FOR

WATER DIVISION NO. 2

STATE OF COLORADO

CASE NO. W-507

IN THE MATTER OF THE APPLICATION)
FOR WATER RIGHTS ~~XXX~~)

AND THE CHANGE OF USE THEREOF)
OF STRATMOOR HILLS WATER DISTRICT)
IN THE ARKANSAS RIVER AND FOUNTAIN)
CREEK, A TRIBUTARY THEREOF,)

IN EL PASO COUNTY)

JUDGMENT AND DECREE

THE COURT FINDS That no protest has been filed to the
Ruling of the Water Referee in the above case within the
time provided by law, and that the said Ruling should be
confirmed, approved and adopted,

IT IS, THEREFORE, ORDERED, ADJUDGED AND DECREED That
the Ruling of the Water Referee entered on April 27, 1972,
be and the same is incorporated herein by reference and is
hereby confirmed, approved and adopted as the judgment of
this Court.

Done this 26th day of May, A. D. 19 72.

BY THE COURT:

William L. Lobin
WATER JUDGE

cc: F. T. Henry (2 copies) ✓
Attorney for Applicant
501 Mining Exchange Building
Colorado Springs, Colo. 80902

George Vranesh (2 copies)
Attorney at Law
P. O. Box 580
Boulder, Colorado 80302

Division Engineer

State Engineer

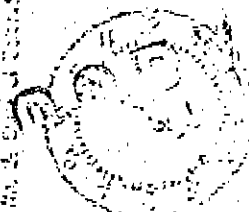
IN THE DISTRICT COURT IN AND FOR
WATER DIVISION NO. 2
STATE OF COLORADO

CASE NO. W-507

RECEIVED

MAY 25 72

WATER RESOURCES
STATE ENGINEER
COLORADO



IN THE MATTER OF THE APPLICATION)
FOR WATER RIGHTS AND THE CHANGE)
OF USE THEREOF OF STRATMOOR HILLS) RULING OF REFEREE
WATER DISTRICT IN THE ARKANSAS)
RIVER AND MOUNTAIN CREEK, A TRIBU-
TARY THEREOF, IN EL PASO COUNTY)

Pursuant to Order of Referral filed and entered in the
above case on December 31, 1971, the undersigned Water Referee,
having investigated the matter of the application on file herein,
hereby makes the following findings and ruling thereon:

FINDINGS OF FACT

1. That the said application was filed on December 31, 1971.
2. That the Water Clerk caused publication of such filing
as provided by statute; that the time for filing Statements of
Opposition expired on the last day of February, 1972, and before
said date one Statement of Opposition was filed by Clear Spring
Ranch, Inc., by George Vranesh, Attorney.
3. That the said application covers a well which was originally
used for irrigation and is now proposed to be used for domestic and
municipal uses.
4. That on April 10, 1972 a hearing was held on said application
in Colorado Springs, which hearing was attended by the applicant and
objector and their respective attorneys.

5. That at said hearing the applicant and objector agreed to the following stipulation with the understanding that if the water right is granted subject to said following stipulation, that the Statement of Opposition will be in effect withdrawn.

STIPULATION

That the source of water is ground water in the Widefield Aquifer which is tributary to Fountain Creek. That the past use of water has been for the irrigation of 14 acres at a duty of 10 acre feet per acre per year. That based on this past use of 10 acre feet per year and a credit for 78 acre feet per year for flow from municipal use due to the upstream change in point of use and type of use, the amount of water permitted to be changed from irrigation to domestic and municipal use at a flow rate of 1.449 cubic feet per second of time is limited to 218 acre feet per year without any seasonal limitation.

WHEREFORE, THEREFORE, ORDERED AS FOLLOWS: That applicant be, and is hereby, awarded a conditional water right which is as follows to-wit:

ADDRESS: Stratmoor Hills Water District
1811 B Street
Colorado Springs, Colorado 80906

RECEIVED
MAY 25 1972
WATER RESOURCES
STATE ENGINEER
COLORADO

CONDITIONAL
UNDERGROUND WATER RIGHT

NAME OF WELL: STRATMOOR HILLS WELL NO. 10.

LOCATION OF WELL:

In the Southwest $\frac{1}{4}$ of the Southeast $\frac{1}{4}$ of Section 3, Twp. 15 South Range 66 West of the 6th P.M., in El Paso County, Colorado, 1395 feet from the East section line and 1200 feet from the South section line. (Present well location).

1500

DEPTH: 74 feet.

PRIORITY DATE: April 1, 1959.

AMOUNT OF WATER: 1.449 cubic feet per second of time.

USE OF WATER: Domestic and municipal (conditional)

STATE ENGINEER'S WELL NUMBER: Water Filing No. 21616.

MEANS OF DIVERSION: By appropriate pump and pipeline.

LIMITATION: The total amount of water to be diverted from said well shall be limited to 218 acre feet per year without any seasonal limitation, according to the stipulation shown under the above Finding of Fact.

IT IS FURTHER ORDERED That, as to any conditional right awarded hereunder, the owner thereof if he desires to maintain the same, shall file an application for biennial finding of reasonable diligence with the Water Clerk of this Court during the month of April, 19 74, and every two years thereafter until the right is decreed final, such application to be filed pursuant to C.R.S. 1963, 148-21-18, as amended.

IT IS FURTHER ORDERED That applicant(s) shall install and maintain such water measurement devices, recording devices, content gauges and inlet and outlet measurement and recording devices, as the case may be, as are deemed essential by the Office of the State Engineer, and the same shall be installed and operated in accordance with instructions from said Office.

IT IS FURTHER ORDERED That copies of this ruling shall be mailed as provided by statute.

Dated and filed with the Water Clerk this 27th day of April, A. D. 1972.

BY THE REFEREE:

Robert T. Hume
Water Referee, Water Division No. 2
State of Colorado

Fountain Valley Authority Water Quality Report



Fountain Valley Authority (PWSID # CO0121300)
2017 Water Quality Report Information for:
City of Fountain (PWSID # CO0121275)
Colorado Springs Utilities (PWSID # CO0121150)
Security Water District (PWSID # CO0121775)
Stratmoor Hills Water District (PWSID # CO0121800)
Widefield Water District (PWSID # CO0121900)

WATER SOURCE INFORMATION

Fountain Valley Authority treats surface water received from the Fryingpan-Arkansas Project. The Fryingpan-Arkansas Project is a system of pipes and tunnels that collects water in the Hunter-Fryingpan Wilderness Area near Aspen. Waters collected from the system are diverted to the Arkansas River, near Buena Vista, and then flows approximately 150 miles downstream to Pueblo Reservoir. From Pueblo Reservoir, the water travels through a pipeline to the water treatment plant.

COLORADO SOURCE WATER ASSESSMENT AND PROTECTION

The Colorado Department of Public Health and Environment has provided us with a Source Water Assessment Report for our water supply. For general information or to obtain a copy of the report please visit <http://wacdc.compliance.com/ccr>. The report is located under "Source Water Assessment Reports". Search the table using 121300, FOUNTAIN VALLEY AUTHORITY or by contacting Laboratory Services at 719-668-4560. The Source Water Assessment Report provides a screening-level evaluation of potential contamination that could occur. It does not mean that the contamination has or will occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. In addition, the source water assessment results provide a starting point for developing a source water protection plan. Potential sources of contamination in our source water area are listed below.

Potential sources of contamination to our source water areas may come from:

- EPA Superfund Sites
- EPA Abandoned Contaminated Sites
- EPA Hazardous Waste Generators
- EPA Chemical Inventory/Storage Sites
- EPA Toxic Release Inventory Sites
- Permitted Wastewater Discharge Sites

- Aboveground, Underground and Leaking Storage Tank Sites
- Solid Waste Sites
- Existing/Abandoned Mine Sites
- Concentrated Animal Feeding Operations
- Other Facilities
- Commercial/Industrial Transportation
- High-and-Low-Intensity Residential
- Urban Recreational Grasses
- Quarries/Strip Mines/Gravel Pits
- Agricultural Land (row crops, small grain, pasture/hay, orchards/vineyards, fallow and other)
- Forest
- Septic Systems
- Oil/Gas Wells
- Road Miles

Fountain Valley Authority is dedicated to protecting our source water and ensuring quality treated water is delivered to our customers. The results of the source water assessment are not a reflection of our treated water quality received at the system connections, but rather a rating of the susceptibility of contamination under the guidelines of the Colorado SWAP program.

POSSIBLE WATER CONTAMINANTS

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791) or by visiting <http://water.epa.gov/drink/contaminants>.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at (1-800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operation and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides that may come from a variety of sources, such as agriculture, urban stormwater runoff and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and also may come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants that can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the Colorado Department of Public Health and Environment prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

FLUORIDE INFORMATION

Fluoride is a compound found naturally in many places, including soil, food, plants, animals and the human body. It is also found naturally in Fountain Valley Authority's water source. Fountain Valley Authority does not add additional fluoride to the treated water. Any fluoride in the treated water results from what occurs naturally in the source water.

LEAD INFORMATION

If present, elevated levels of lead can cause serious health problems (especially for pregnant women and young children). It is possible that lead levels at your home may be higher than other homes in the community as a result of materials used in your home's plumbing. If you are concerned about lead in your water, you may wish to have your water tested. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Additional information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

CRYPTOSPORIDIUM INFORMATION

Cryptosporidium is a microbial pathogen found in surface water throughout the United States. Although filtration removes cryptosporidium, the most commonly used filtration methods cannot guarantee 100 percent removal. No cryptosporidia were detected in Fountain Valley Authority source water in 2017. Current test methods do not allow us to determine if the organisms found in the source water are dead or if they are capable of causing disease. Ingestion of cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immunocompromised people are at greater risk of developing the life-threatening illness. We encourage immunocompromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

DEFINITIONS

- **Maximum Contaminant Level (MCL)** – The highest level of a contaminant allowed in drinking water.
- **Treatment Technique (TT)** – A required process intended to reduce the level of a contaminant in drinking water.
- **Health-Based** – A violation of either a MCL or TT.
- **Non-Health-Based** – A violation that is not a MCL or TT.
- **Action Level (AL)** – The concentration of a contaminant which, if exceeded, triggers treatment and other regulatory requirements.
- **Maximum Residual Disinfectant Level (MRDL)** – The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Maximum Contaminant Level Goal (MCLG)** – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **Maximum Residual Disinfectant Level Goal (MRDLG)** – The level of a drinking water disinfectant, below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- **Violation (No Abbreviation)** – Failure to meet a Colorado Primary Drinking Water Regulation.
- **Formal Enforcement Action (No Abbreviation)** – Escalated action taken by the State (due to the risk to public health, or number or severity of violations) to bring a non-compliant water system back into compliance.

- **Variance and Exemptions (V/E)** – Department permission not to meet a MCL or treatment technique under certain conditions.
- **Gross Alpha (No Abbreviation)** – Gross alpha particle activity compliance value. It includes radium-226, but excludes radon 222, and uranium.
- **Picocuries per liter (pCi/L)** – Measure of the radioactivity in water.
- **Nephelometric Turbidity Unit (NTU)** – Measure of the clarity or cloudiness of water. Turbidity in excess of 5 NTU is just noticeable to the typical person.
- **Compliance Value (No Abbreviation)** – Single or calculated value used to determine if regulatory contaminant level (e.g. MCL) is met. Examples of calculated values are the 90th Percentile, Running Annual Average (RAA) and Locational Running Annual Average (LRAA).
- **Average (x-bar)** – Typical value.
- **Range (R)** – Lowest value to the highest value.
- **Sample Size (n)** – Number or count of values (i.e. number of water samples collected).
- **Parts per million = Milligrams per liter (ppm = mg/L)** – One part per million corresponds to one minute in two years or a single penny in \$10,000.
- **Parts per billion = Micrograms per liter (ppb = ug/L)** – One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- **Not Applicable (N/A)** – Does not apply or not available.
- **Level 1 Assessment** – A study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- **Level 2 Assessment** – A very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

WANT MORE INFORMATION

For questions concerning this report, please call Colorado Springs Utilities Laboratory Services at (719) 668-4560.

TABLE OF DETECTED CONTAMINANTS

Fountain Valley Authority is required to monitor for certain contaminants less than once a year because the concentration of the contaminants are not expected to vary significantly from year to year, or the drinking water system is not considered vulnerable to this type of contamination. Some of the data, though representative, may be more than one year old.

Fountain Valley Authority has been issued waivers for asbestos, cyanide, dioxin, glyphosate, nitrite and all unregulated inorganic contaminants. The table on the following page shows the results of our monitoring for the period of January 1 through December 31, 2017, unless otherwise noted.

Detected Contaminants Table
Fountain Valley Authority (PWSID C00121300)

Inorganic Contaminants

Monitored at the Treatment Plant (entry point to the transmission system)

Contaminant	MCL	MCLG	Units	Level Detected	MCL Violation	Sample Dates	Possible Source(s) of Contamination
Barium	2	2	ppm	0.0572	No	April 2017	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride	4	4	ppm	0.50	No	April 2017	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Nitrate (as Nitrogen)	10	10	ppm	0.37	No	April 2017	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nickel	N/A	N/A	ppb	1.8	N/A	April 2017	Erosion of natural deposits, discharge from industries, discharge from refineries and steel mills
Selenium	50	50	ppb	5.3	No	April 2017	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Sodium	N/A	N/A	ppm	20.6	No	April 2017	Erosion of natural deposits

Turbidity

Continuously monitored at the Treatment Plant (entry point to the transmission system)

Contaminant	TT Requirement	Level Detected	TT Violation	Sample Dates	Possible Source(s) of Contamination
Turbidity	Maximum 1 NTU for any single measurement	Highest Single Measurement: 0.175 NTU	No	Jan 2017	Soil Runoff
Turbidity	In any month, at least 95% of samples must be less than 0.3NTU	Lowest Monthly percentage of samples meeting TT requirement: 100%	No	Dec 2017	Soil Runoff

Organic Contaminants

Monitored at the Treatment Plant (entry point to the transmission system)

Contaminant	MCL	MCLG	Units	Level Detected	MCL Violation	Sample Dates	Possible Source(s) of Contamination
Hexachlorocyclopentadiene	50	50	ppb	0 - 0.06	No	April, July 2016	Discharge from chemical factories

**Total Organic Carbon (Disinfection Byproducts Precursor) Removal Ratio and Finished Water
Monitored at the Treatment Plant (entry point to transmission system)**

Contaminant	MCL	MCLG	Units	Average	Range Low - High	MCL Violation	Sample Dates	Possible Source(s) of Contamination
Total Organic Carbon (TOC)	TT minimum ratio = 1.00	N/A	N/A	1.14	1 – 1.54	No	Monthly - Running Annual Average	Naturally present in the environment

Disinfectants

Continuously monitored at the Treatment Plant (entry point to the transmission system)

Contaminant	MRDL	Units	Level Detected	MRDL Violation	Sample Dates	Possible Source(s) of Contamination
Chlorine	TT= No more than 4 hours with a sample below 0.2 ppm	ppm	0 samples above or below the level	No	Jan – Dec 2017	Water additive used to control microbes

**Long Term 2 Enhanced Surface Water Treatment Rule Monitoring
Monitored raw source water before it enters the Treatment Plant**

Contaminant	Units	Range	MCL Violation	Sample Dates	Possible Source(s) of Contamination
Cryptosporidium	Oocysts/L	0	N/A	Jan – Mar 2017	Naturally occur in the environment
E. coli	MPN	0-10	N/A	Jan – Mar 2017	Naturally occur in the environment