



Shawn Davis, Chair
Bebe Kleinman, Vice Chair
Kristine Burrows
Dr. Mark Levine
Terrence Walker
Michelle Weinraub
Mark Mcmillan

Arapahoe County

Arapahoe County Board of Health

Agenda

Wednesday, May 21, 2025
3:00 PM

Administration Building
5334 S. Prince St.
Littleton, CO 80120
West Hearing Room

The public is welcome to attend the Board of Health meeting in the West Hearing Room or virtually on Teams.

[https://teams.microsoft.com/l/meetup-join/19%3ameeting_Yzc5ZWNiOGMtYzk1YS00YTYxLWIwYTtYTRlYWQwNzZlNzRm%40thread.v2/0?](https://teams.microsoft.com/l/meetup-join/19%3ameeting_Yzc5ZWNiOGMtYzk1YS00YTYxLWIwYTtYTRlYWQwNzZlNzRm%40thread.v2/0?context=%7b%22Tid%22%3a%2257d7b626-d71d-47f6-84c1-c43bda19ba16%22%2c%22Oid%22%3a%22c0695c0a-202a-41ae-9aa5-a71df8e21ec2%22%7d)

[context=%7b%22Tid%22%3a%2257d7b626-d71d-47f6-84c1-c43bda19ba16%22%2c%22Oid%22%3a%22c0695c0a-202a-41ae-9aa5-a71df8e21ec2%22%7d](https://arapahoe.legistar.com/Calendar)

The Board of Health agenda and materials can be viewed online at
<https://arapahoe.legistar.com/Calendar>.

1. *CALL TO ORDER

2. *APPROVAL OF MINUTES

April Meeting Minutes

25-307

Attachments: BOH_ISS_Meeting Minutes_20250416
BOH_Meeting Minutes_20250418

3. *PUBLIC COMMENT

Individuals are invited to speak to the Board of Health about any topic. To provide Public Comment, please contact the Board of Health Liaison (aschmidt@arapahoegov.com) at least 30 minutes prior to the start of the respective board meeting. Speakers will be called in the order in which they signed up. Each person has a 3-minute time limit for comments, unless otherwise noted by the Chair. Individuals must state their name and address for the record prior to making remarks.

4. *BOARD OF HEALTH COMMENTS

5. *GENERAL BUSINESS ITEMS

59508 E. Commanche Way: Request for Variance from Table 6, Minimum Horizontal Distances, in Arapahoe County On-Site Wastewater Regulations

[25-301](#)

Attachments: [4. 2025.05_59508 E Commanche Wy_Final Draft PDF](#)
[Packet_20250508_CGerken](#)

6. *STUDY SESSION

Nutrition Division Deep Dive Presentation [25-302](#)

Attachments: [BOH_WIC Deep Dive May 2025](#)

Public Health Department Move Update [25-303](#)

Attachments: [6. BOH_PPT Presentation - PH Move 5.2025](#)

ACPH Director's Report April-May [25-304](#)

Attachments: [7. BOH_Director's Report 2025](#)

7. EXECUTIVE SESSION AND COUNTY ATTORNEY LEGAL MEETING

As required by law, specific agenda topics will be announced in open meeting prior to the commencement of the closed and confidential portion of this session. C.R.S. § 24-6-402(4).

8. *ADJOURN

Arapahoe County is committed to making its public meetings accessible to persons with all abilities. Please contact the Board of Health Liaison (aschmidt@arapahoegov.com) at least three (3) days prior to a meeting, should you require special accommodations.

*Items marked with an asterisk will be live streamed for public viewing.



Arapahoe County

5334 South Prince Street
Littleton, CO 80120
303-795-4630
Relay Colorado 711

Board Summary Report

File #: 25-307

Agenda Date: 5/22/2025

Agenda #:



Shawn Davis, Chair
Bebe Kleinman, Vice Chair
Kristine Burrows
Dr. Mark Levine
Terrence Walker
Michelle Weinraub
Mark Mcmillan

Arapahoe County

Arapahoe County Board of Health

Meeting Minute Summaries

Wednesday, April 16, 2025
2:00 PM

Public Health
Willow

Informal Session

The Board of Health will meet for Administrative Session in the DOC Board Room, located at 6162 S Willow Dr. Greenwood Village 80111. The Board of Health agenda and materials can be viewed online at <https://arapahoe.legistar.com/Calendar>

Present Bebe Kleinman, Shawn Davis, Kristine Burrows, Michelle Weinraub, Mark Mcmillan, and Mark Levine
Abs/Exc Terrence Walker

EXECUTIVE SESSION AND COUNTY ATTORNEY LEGAL MEETING

As required by law, specific agenda topics will be announced in open meeting prior to the commencement of the closed and confidential portion of this session. C.R.S. § 24-6-402(4).

A motion was made by Director Davis and seconded by Director Kleinman that the Board of Health go into executive session pursuant to CRS 24-6-402.4F to discuss personnel matters relating to funding cuts experienced by the Public health department. The motion carried as followed:

Aye: Kleinman, Davis, Burrows, Weinraub, Mcmillan, and Levine

Aye: Kleinman, Davis, Burrows, Weinraub, Mcmillan, and Levine

Absent: Walker

Absent: Walker

STUDY SESSION

The purpose of this session is informal relationship building among Board of Health directors and ACPH staff. Topics discussed during this session are only conversational and no decisions will be made at this time. Topics during this session may include:

Attachments: [0 MCH April 2025 BOH Presentation](#)
[0 DOC ACPH Community Collaboration 2025 \(2\)](#)

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Shawn Davis, Chair
Bebe Kleinman, Vice Chair
Kristine Burrows
Dr. Mark Levine
Terrence Walker
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Arapahoe County

Arapahoe County Board of Health

Meeting Minute Summaries

Wednesday, April 16, 2025
3:00 PM

Public Health
Willow

The public is welcome to attend the Board of Health meeting in the Arapahoe Board Room, located at 6162 S Willow Dr, Greenwood Village, CO 80111, or virtually on Teams https://teams.microsoft.com/l/meetup-join/19%3ameeting_Yzc5ZWNiOGMtYzk1YS00YTYxLWIwYtEtYTRIYWQwNzZlNzRm%40thread.v2/0?context=%7b%22Tid%22%3a%2257d7b626-d71d-47f6-84c1-c43bda19ba16%22%2c%22Oid%22%3a%22c0695c0a-202a-41ae-9aa5-a71df8e21ec2%22%7d, or by calling 1-719-569-5048 and entering the Conference ID: 443 152 952# when prompted.

1. *CALL TO ORDER

Present Bebe Kleinman, Shawn Davis, Kristine Burrows, Terrence Walker, Michelle Weinraub, Mark Mcmillan, and Mark Levine

2. *APPROVAL OF MINUTES

2.a.

Attachments: [1. BOH ISS Minutes 2025](#)
[2. BOH Meeting Minutes 20250319](#)

A motion was made by Levine, seconded by Walker, that this Minutes be approved. The motion carried by the following vote:

Aye: Kleinman, Davis, Walker, Weinraub, Mcmillan, and Levine

Abstain: Burrows

3. *PUBLIC COMMENT

Individuals are invited to speak to the Board of Health about any topic. To provide Public Comment, please contact the Board of Health Liaison (aschmidt@arapahoegov.com) at least 30 minutes prior to the start of the respective board meeting. Speakers will be called in the order in which they signed up. Each person has a 3-minute time limit for comments, unless otherwise noted by the Chair. Individuals must state their name and address for the record prior to making remarks.

4. *BOARD OF HEALTH COMMENTS

5. *GENERAL BUSINESS ITEMS

5.a.**Attachments:** [2025.04.15 Motion to Cease and Desist re OWTS for 3140 W Girard Ave 1](#)

A motion was made by Davis, seconded by Kleinman, approve the Public Health Order regarding 3140 W Girard Ave.

The motion carried by the following vote:

Aye: Kleinman, Davis, Burrows, Walker, Weinraub, Mcmillan, and Levine

Pursuant to legal authority set forth in Colorado Revised Statutes §§ 25-1-508, 25-1-518, 25-10-106, 25-10-113, and the Arapahoe County On-Site Wastewater Treatment Act Regulations, the Arapahoe County Board of Health hereby issues the following Order to the above-named persons and entities.

The Arapahoe County Board of Health held a second enforcement hearing on Wednesday, April 16, 2025. Following receipt of testimony and evidence from public health staff and the property owner's representative, the Board made the following findings:

The Board accepted representations that the on-site wastewater treatment system (also referred to as a septic system or OWTS) at 3140 W. Girard Ave., Englewood CO is still failing but effluent has not surfaced since implementation of the requirements set forth in the Public Health Order issued on March 19, 2025.

The Board accepted representations that the property owner, Housepurchase LLC, has been compliant with the Public Health Order issued on March 19, 2025.

The Board accepted representations from Mr. Butler's representative that the property will be vacated (and all use of the OWTS will cease) effective April 20, 2025.

The requirements set forth in the Public Health Order issued on March 19, 2025 will stay in effect until the current tenants vacate the property, though findings made in the Order will remain valid.

This Cease and Desist Order will commence once the property is vacated.

This Cease and Desist Order will remain in effect until the OWTS is repaired or replaced to the satisfaction of the Public Health Department or there is completed connection of the property to the Sheridan Sanitation District #2.

The civil penalty assessment of \$50/day, beginning March 20, 2025, will stay in effect and continue until such time that the Board of Health finds that the property owner has achieved compliance with the Colorado Public Health Act, the Colorado On-Site Wastewater Treatment Act, and the Arapahoe County On-Site Wastewater Treatment Act Regulations. The Board of Health will determine the amount of the penalty once the remediation is completed.

To remove, prevent and remediate the nuisance, the Arapahoe County Board of Health has ordered the following:

Housepurchase LLC and Mr. Michael Butler will notify Arapahoe County Public Health when the property has been formally vacated. (To be completed within 24 hours of tenants formally vacating the property.)

Housepurchase LLC and Mr. Butler will ensure that the septic tank is pumped once the property is formally vacated, using an Arapahoe County Public Health licensed cleaner and pumper. (To be completed within 48 hours of tenants formally vacating the property. Receipt of pumping will be provided to Arapahoe County Public Health within seven (7) days of pumping.)

Once the tenants formally vacate the property, Housepurchase LLC and Mr. Butler are to ensure that there are no tenants, renters, or any occupants whatsoever at the property so that all use of the OWTS ceases until this Cease and Desist Order is lifted.

To ensure there is no continued use of the OWTS, Housepurchase LLC and Mr. Butler are ordered to submit water meter readings to staff of the Public Health Department on a monthly basis, starting May 1, 2025, and continuing on the first of each month, until the Cease and Desist Order is lifted. (To commence on May 1, 2025.)

Housepurchase LLC and Mr. Butler are to continue to comply with all requests of Arapahoe County Public Health to remediate the nuisance, cease use of the septic system, and connect the property to the Sheridan Sanitation District #2, including by replying to each and every public health email and phone communication within 24 hours.

Failure to comply with this Order may subject you to arrest and Arapahoe County Public Health may initiate a civil or criminal enforcement action in the Arapahoe County District Court. It is unlawful to willfully violate, disobey, or disregard this Order. Any person who does so commits a class 2 misdemeanor and, upon conviction thereof, shall be punished by imprisonment in a county jail for up to 120 days, a fine of up to \$750, or both. C.R.S. § 25-1-516.

6. *STUDY SESSIONS

6.a. Introduction to State Regulation 86 for Graywater and HB 24-1362

Attachments: [4. 2025.04_ACPH BOH Graywater Presentation DRT2](#)

The purpose of this briefing is to provide an overview of State Regulation 86 on graywater use and House Bill 24-1362, which shifts graywater regulation to an "opt-out" model, effective January 1, 2026. Arapahoe County Public Health (ACPH) seeks the Board of Health's recommendation to the Board of County Commissioners on whether to prohibit or allow specific categories of graywater use within the county. The majority of the Board of Health supported prohibiting graywater usage in Arapahoe County, though some members also expressed concerns about water rights implications and all were open to discussing further if the Board of County Commissioners supported permitting some form of graywater use. The Board of County Commissioners will be provided with the Board of Health recommendation during the study session, scheduled June 10, 2025.

6.b.

Attachments: [BOH_WIC Deep Dive April 2025 \(1\)](#)

6.c.

Attachments: [BOH_Director's Report_2025 \(2\)](#) [AllStaffPhotos_BOH_4.16.25](#)

7. EXECUTIVE SESSION AND COUNTY ATTORNEY LEGAL MEETING

No Executive Session was held at this time.

8. *ADJOURN

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Arapahoe County

5334 South Prince Street
Littleton, CO 80120
303-795-4630
Relay Colorado 711

Board Summary Report

File #: 25-301

Agenda Date: 5/21/2025

Agenda #:

To: Board of Health

Through: Jennifer Ludwig, Public Health Director, Arapahoe County Public Health

Prepared By:

Steven Chevalier, Environmental Health Manager (Early Childhood and Environmental Protection Programs), Public Health

Presenters: Steven Chevalier, Environmental Health Manager (Early Childhood and Environmental Protection Programs), Public Health

Subject:

59508 E. Commanche Way: Request for Variance from Table 6, Minimum Horizontal Distances, in Arapahoe County On-Site Wastewater Regulations

Purpose and Request:

The [Arapahoe County On-site Wastewater Regulations <https://arapahoe.legistar.com/View.ashx?M=F&ID=11349378&GUID=6FF1CB3B-125C-4057-9C26-B998DBA347D9>](https://arapahoe.legistar.com/View.ashx?M=F&ID=11349378&GUID=6FF1CB3B-125C-4057-9C26-B998DBA347D9) require a minimum 10-foot setback from property lines for OWTS sewer lines (Section 10.1). Sections 3.10 and 20.5 authorize the Board of Health to grant variances from this requirement when the following criteria are met: the variance is not injurious to public health, safety, or welfare; the variance will not adversely affect the environment; and the variance is justified by unique site conditions. In this case, the requested variance allows the installation of a compliant replacement OWTS, avoids demolition of an existing concrete structure, maintains required separation from wells, and reflects the acknowledgment and consent of the adjacent property owner.

Staff request the variance to reduce setbacks required in the Arapahoe County On-site Wastewater Regulation be considered by the Arapahoe County Board of Health.

Background and Discussion: The property located at 59508 E. Commanche Way, Strasburg, CO, owned by

Jeff and Tabitha Velasco (J&T Valasco Trust), requires replacement of an on-site wastewater treatment system (OWTS) that, according to the Subsurface Investigation and Soils Report and Design for Onsite Wastewater Treatment System (OWTS) (design no, 24-4028, dated 12/31/2024) is in a failure state. The proposed replacement system is located in the backyard, south of the residence. The existing system will be pumped, tank demolished, disconnected from the home, and abandoned. Due to the presence of an existing concrete slab near the southeastern property boundary, the effluent sewer line cannot maintain the minimum 10-foot side setback without removal of the slab. Instead of removing the concrete slab, the applicant requests a variance to allow the sewer line to be placed approximately 4-5 feet from the eastern property line. The adjacent property owners at 59548 E. Commanche Way, Rigel and Brooke Stephenson, have submitted a letter acknowledging the proximity of the proposed sewer line and expressed no objection to the variance request; confirmation of acknowledgement was received via phone between Rachel Gamache, Arapahoe county Public Health, and Brooke Stephenson on April 18, 2025. An engineering letter prepared by Anthony J. Wernsman, P.E., of WW Enterprises, supports the variance request, confirming that the sewer line will maintain adequate separation from wells as required by Table 6 of the Regulations and that the variance will avoid unnecessary additional construction costs. In accordance with Section 20.5 of the Arapahoe County On-site Wastewater Regulations, the Board of Health is responsible for reviewing variance requests related to OWTS regulations. The Board has the authority to grant or deny variances based on whether the criteria for approval are met, including considerations for public health, safety, and welfare, as well as unique site conditions.

Fiscal Impact: N/A

Staff Recommendation: Staff recommend approval of the variance request to allow the effluent sewer line to be placed less than 10 feet (approximately 4-5 feet) from the eastern property line at 59508 E. Commanche Way, contingent upon the following conditions:

1. Survey Requirement: Prior to receiving a permit from Arapahoe County Public Health, and no later than June 23, 2025, the property pins must be located, and property lines must be clearly marked with lathes or a similar method to ensure the sewer line remains within the property boundary. If property pins cannot be located, the property must be surveyed by a professional survey company. Property lines determined by the survey must be clearly marked with lathes or a similar method to ensure the sewer line remains within the property boundary.

2. Maintenance of Existing System: The existing system must be maintained by the property owner in a nuisance-free condition, with the tank pumped as needed to prevent surfacing of effluent until the new system is installed and approved by the design engineer and Arapahoe County Public Health. Pumping must be performed at a frequency determined by an Arapahoe County Public Health licensed professional Septic System Cleaner. A written determination of the required pumping frequency must be submitted to Arapahoe County Public Health within 7 days of the assessment, and no later than June 23, 2025. Pumping receipts must be submitted to Arapahoe County Public Health within 7 days of each pumping event.

3. Verification of Neighboring Well Location:

Prior to construction of the new on-site wastewater treatment system, the location of any well(s) on the subject property, or on the neighboring property at 59548 E. Commanche Way must be verified by an Arapahoe County Public Health Septic Installer or by the design engineer. If a well is located within 50 feet of the proposed effluent sewer line, the sewer line must be pressure-rated and encased in accordance with Table 6 and associated notes of the Arapahoe County On-Site Wastewater Regulations. Documentation of the well location

verification, and confirmation of compliance or proposed encasement details if required, must be submitted to Arapahoe County Public Health prior to issuance of a permit for system installation.

4. Timeline

Submission: Prior to receiving a permit from Arapahoe County Public Health to construct the on-site wastewater treatment system, and no later than June 23, 2025, a written project timeline must be submitted to Arapahoe County Public Health. The timeline must include the date the property survey will be completed; date the tank pumping assessment will be completed; anticipated start date of construction of the new system; and anticipated date of completion of system installation.

Motion(s): I move that the Board of Health approve the variance request for 59508 E. Commanche Way, subject to the conditions outlined in the staff recommendation.



ARAPAHOE COUNTY

Variance Setback Consideration for 59508 E. Commanche Way

Arapahoe County Public Health
May 2025 Board of Health Meeting
Steven Chevalier, MS, REHS

Hearing Purpose

Variance request for reduction in 10-foot sewer line setback at 59508 E. Commanche Way.



Property Overview



- Address: 59508 E. Commanche Way, Strasburg, CO
- Owners: Jeff and Tabitha Velasco (J&T Velasco Trust)
- Issue: Failed OWTS system requiring replacement

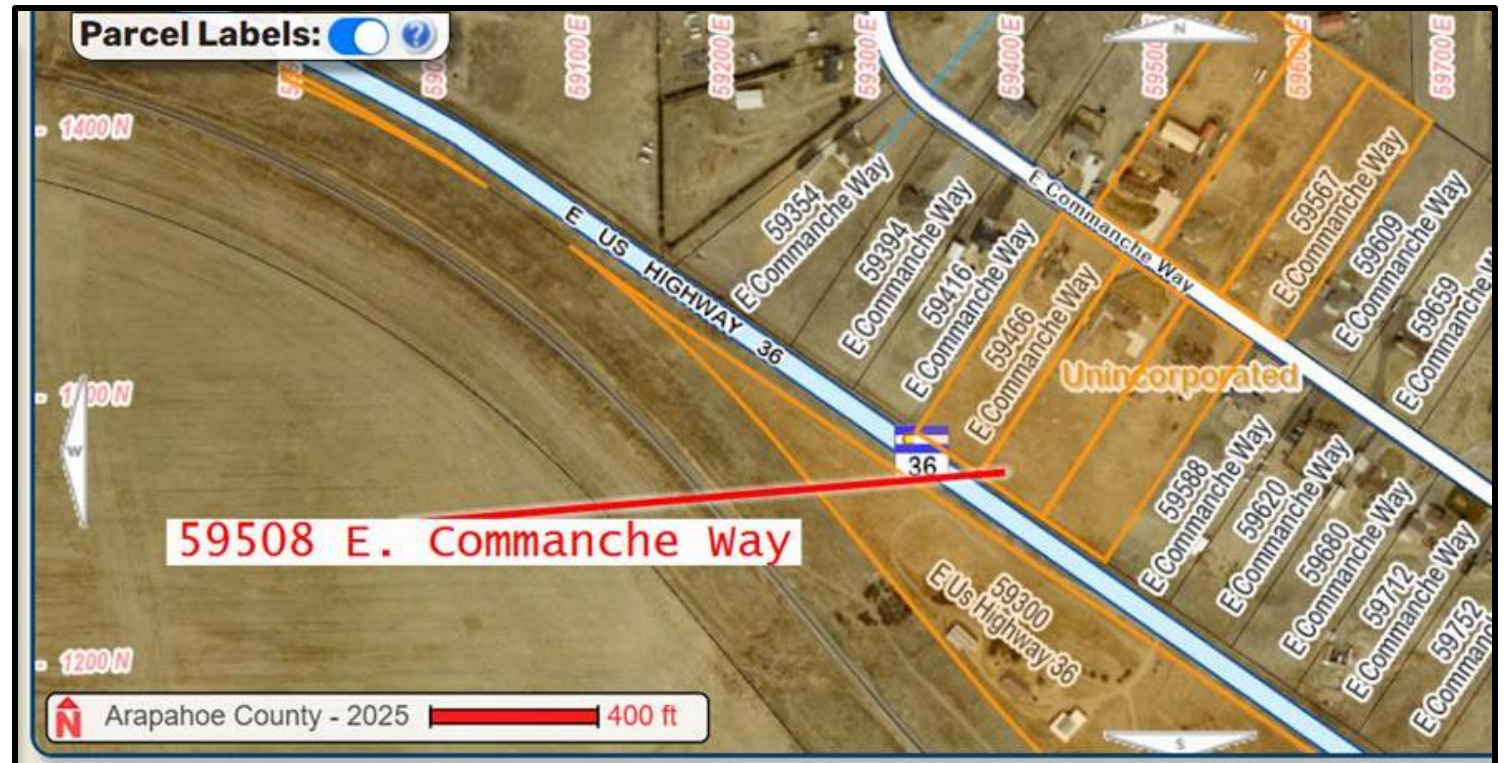
Reason for Variance

- Existing concrete slab prevents 10-foot setback.
- Requested placement: 4–5 feet from eastern property line.



Notification Area

- Based on Sackett v. EPA (2023) interpretation of 'adjacent.'
- Includes adjoining and nearby properties across roads.



Neighbor Acknowledgment

- Six nearby property owners were notified of public hearing for variance request. Notification letters were mailed on 4/22/2025.
 - As of May 7, 2025, no responses to the notification were received by ACPH
- 59548 E. Commanche Way: a “no objection letter” was provided as part of the variance materials.
- Phone confirmation was received by ACPH on April 18, 2025 from the property owners of 59548 E. Commanche Way.

Engineering Review

- WW Enterprises supports variance.
- System will meet technical standards.
- Encasement required if neighboring well is <50 feet.

Public Health Considerations

- Minimal public health risk.
- Well locations reduce exposure.
- System design meets environmental standards.

Staff Recommendation

Approve with 4 conditions:

1. Property survey and line marking if property pins cannot be located
2. Maintain existing system
3. Submit detailed project timeline
4. Verify neighboring well location; encase if required



ARAPAHOE COUNTY

ON-SITE WASTEWATER REGULATIONS

**PROMULGATED BY THE BOARD OF HEALTH
OF ARAPAHOE COUNTY**

**Effective Date
December 24, 2022**

**Pursuant to Title 25-10-101, et seq. Colorado Revised Statutes and
the Colorado Department of Public Health and Environment Water
Quality Control Commission On-Site Wastewater Treatment System
Regulation #43, 5 CCR-1002-43**

This document describes the rules and regulations for the use and permitting of On-Site Wastewater Treatment Systems in Arapahoe County. This Regulation should be used by anyone seeking a permit, designing a system, installing a system, repairing a system, or using a system.

3.10 Variance Procedure

A. Request for Variance

An applicant for a permit to construct a new OWTS or to repair or expand an OWTS may request a variance from any provision of this Regulation, except as prohibited in Section 3.10.C.

B. Variance requests must be accompanied by:

- 1) Site-specific request identifying the specific criteria from which a variance is being requested;
- 2) Technical justification by a professional engineer or professional geologist, which indicates the specific conditions which exist and/or the measures which will be taken that support a finding that the variance will result in no greater risk than that associated with compliance with the requirements of the Regulation. Examples of conditions which exist, or measures which might be taken, include but are not limited to the following: evidence of a natural or manmade physical barrier to the movement of effluent to or toward the feature from which the variance is requested; placement of a manmade physical barrier to the movement of effluent to or toward the feature from which the variance is requested; soil replacement with sand filter media to reduce the infiltration rate of the effluent such that the travel time of the effluent from the soil treatment area to the physical feature is no less than the travel time through the native soils at the prescribed setback and Treatment Level (TL) 2;
- 3) A discussion of alternatives considered in lieu of the requested variance;
- 4) Technical documentation for selected alternative, which may include a testing program, which confirms that the variance does not increase the risk to public health and to the environment;
- 5) A statement of the hardship that creates the necessity for the variance; and
- 6) The Department has the authority to impose site-specific requirements and conditions on any variance granted.

C. Prohibitions on the Granting of Variance Requests

- 1) No variance shall be issued where the property can accommodate a conforming OWTS.

- 2) No variance shall be issued to mitigate an error in construction involving any element of property improvements.
- 3) No variance shall be allowed solely for economic gain.
- 4) No variance shall be issued, if it will result in a setback reduction to an offsite physical feature that does not conform to the minimum setbacks defined in Table 6 in Appendix A of this Regulation without the Board of Health considering any concerns of the owner of property containing said feature. Property lines are considered offsite features. The owner of the property containing said feature must be notified of the time and date of the hearing.
- 5) No variance shall be issued, if it reduces the separation to ground water or bedrock based on the level of treatment in Table 7 in Appendix A.
- 6) No variance from the horizontal setback from a well shall be issued unless it also meets the variance requirements of the Board of Examiners of Water Well Construction and Pump Installation Contractors.

D. Variances for Repair of Failing Systems

- 1) When a proposed variance for a system repair or upgrade would result in encroachment on minimum distances to physical features on neighboring properties required by the Department, the requirements in 3.10.B above must be followed.
- 2) For the repair of or upgrade to an existing system where the existing system does not meet the required separation distances and where conditions other than lot size precludes adherence to the required distances, a variance to the separation distances may be requested. The repairs or upgrade must be no closer to features requiring setbacks than the existing facilities. Variances requesting setbacks no closer than existing setbacks do not have to provide technical justification from a professional engineer or professional geologist.

E. Burden of Proof

The applicant has the burden of proof to demonstrate that the variance is justified and will pose no greater risk to public health and the environment than would a system meeting this Regulation.

F. Public Hearing

Upon receipt of the request for a variance and the required information in Section 3.10.B, the Department shall schedule a public hearing before the Board of Health. The Department will issue a Public Notice of the Hearing and send notice via certified mail, with a minimum 20-day reply time from the date of mailing, to all adjacent property owners. The applicant and his/her engineer may attend the hearing and present testimony regarding the request for a variance. Applicants may be represented by legal counsel at any public hearing or meeting.

G. Outcome of the Variance Proceeding

- 1) Following the Public Hearing, the Board of Health shall vote on the proposed variance. Approval of the variance shall require a majority vote of the Board of Health. The applicant will receive written notification of the decision regarding the request for a variance.
- 2) The Board of Health may impose requirements and conditions on any variance granted, and the notice of an approval of the variance will include any conditions of the approval. The notice of a denial of a variance shall include the basis for the denial.
- 3) Variances and any conditions thereof shall be recorded on the deed to the property and any expenses associated with that recording shall be the responsibility of the party obtaining the variance.

H. Findings on Appeal

- 1) A request for review must be made within 60 days after denial of an application by the Department.
- 2) The applicant must bear the burden of supplying the Board of Health with sufficient evidence to document that the denied system will be constructed and used in such a manner that will result in no greater risk than that associated with compliance with the requirements of Regulation 43, comply with the declaration and intent of this Regulation, and comply with all applicable state and local regulations and required terms and conditions in any permit.
- 3) Such review must be conducted pursuant to the requirements of C.R.S. §24-4-105.

SECTION 10 MINIMUM HORIZONTAL DISTANCES

10.1 Required Minimum Horizontal Distances-Applicability

Horizontal distances from the various components of a system to pertinent terrain features, including streams, lakes, water courses, springs, wetlands, wells, subsurface drains, cisterns, water lines, suction lines, dry gulches, cut banks, dwellings, other occupied buildings and property lines, must be in accordance with Table 6 in Appendix A. The setback requirements are applicable for minimum system performance and treatment levels with specific modifications allowed for higher treatment levels as provided in Table 7 in Appendix A. All distance setback modifications must be analyzed and approved by the Board of Health or The Department and be in complete compliance with the variance procedures of this Regulation and those of the Board of Health. Acceptable methods of analyzing horizontal separation distances with higher treatment levels include but are not limited to:

- A. Analyzing the intended uses of impacted surface and/or ground waters
- B. Contacting adjacent property owners for potential conflicts with property line encroachments
- C. Analyzing potential impacts that system locations may have on building foundations and other potentially affected features

20.5 Hearing and Review of Variance Requests

- A. Upon receipt of the request for a variance and the required information in Section 3.10.B the Department will schedule a public hearing before the Board of Health. The Department will issue a Public Notice of the Hearing and send notice via certified mail, with a minimum 20 day reply time from the date of mailing, to all adjacent property owners. The applicant and his/her engineer may attend the hearing and present testimony regarding the request for a variance.
- B. Following the public hearing, the Board of Health shall vote on the proposed variance. Approval of the variance shall require a majority vote of the Board of Health.
- C. The applicant will receive written notification of the decision regarding the request for a variance.
- D. The Board of Health may impose requirements and conditions on the variance granted and the notice of an approval of the variance will include any conditions of the approval. The notice of a denial or a variance shall include those reasons which form the basis for the denial.
- E. The variance and any conditions thereof shall be recorded on the deed to the property and any expenses associated with that recording shall be the responsibility of the party obtaining the variance.

Table 6: Minimum Horizontal Distances in Feet Between OWTS Components Installed after November 15, 1973 and Water, Physical, and Health Impact Features

	Spring, Well, ¹ Suction Line, Potable Water Supply Cistern ⁴	Potable Water Supply Line ² , In- Ground Swimming Pool	Structure w/Basement, Crawl Space or Footing Drains	Structure Without Basement, Crawl Space or Footing Drains	Property Lines, Piped or Lined Irrigation Ditch, or Upslope Curtain Drain	Subsurface Drain, Intermittent Irrigation Lateral, Drywell, Stormwater Structure, or Stormwater Conveyance Channel	Lake, Water Course, Irrigation Ditch, Stream, Wetland	Dry Gulch, Cut Bank, Fill Area (from Crest)	Septic Tank, Higher Level Treatment Unit, Dosing Tank, Vault or Privy
Septic Tank, Higher Level Treatment Unit, Dosing Tank, Vault, or Vault Privy	50 ²	10 ²	5	5	10	10	50	10	--
Building Sewer or Effluent Lines	50 ²	5 ⁶	0	0	10 ²	10 ²	50 ²	10 ²	--
STA Trench, STA Bed, Unlined Sand Filter, Sub-surface Dispersal System, Seepage Pit	100 ³	25 ²	20	10	10	25	50 ³	25	5
Lined Sand Filter	60	10 ²	15	10	10	10	25	10	5
Lined Evapo-transpiration Field or Outside of Berm of Lined Wastewater Pond	60	10 ²	15	15	10	10	25	10	5
Unlined Sand Filter in Soil With a Percolation Rate Slower than 60 Minutes per Inch, Unlined or Partially Lined Evapo-transpiration System, Outside of Berm of Unlined Wastewater Pond, or System Not Relying on STA for Treatment Other than Aerosol	100	25 ²	15	15	10	25	25	15	10
Slit Trench Latrine, Pit Privy	100	50 ²	25	25	25	25	100	25	N/A
System Not Relying on STA for Dispersal	100 ³	10 ²	125	125 ⁵	10	0	25 ³	10	10

NOTE: The minimum distances shown above must be maintained between the OWTS components and the features described. Where soil, geological or other conditions warrant, greater distances may be required by the Board of Health or by the Water Quality Control Commission pursuant to Section 25-8-206, C.R.S. and applicable regulations. For repair or upgrading of existing OWTS where the size of lot precludes adherence to these distances, a repaired OWTS must not be closer to setback features than the existing OWTS, as reviewed and approved by the Department. Components that are not watertight should not extend into areas of the root system of nearby trees.

1. Includes potable wells, irrigation wells and monitoring wells set within a potable aquifer and infiltration galleries permitted as wells by the Division of Water Resources.

2. Crossings or encroachments may be permitted at the points as noted above provided that the water or wastewater conveyance pipe is encased for the minimum setback distance on each side of the crossing. A length of pipe with a minimum Schedule 40 rating of sufficient diameter to easily slide over and completely encase the conveyance must be used. Rigid end caps of at least Schedule 40 rating must be glued or secured in a watertight fashion to the ends of the encasement pipe. A hole of sufficient size to accommodate the pipe must be drilled in the lowest Section of the rigid cap so that the conveyance pipe rests on the bottom of the encasement pipe. The area in which the pipe passes through the end caps is to be sealed with an approved underground sealant compatible with the piping used. Other methods of encasement that provide equal protection are allowed. These methods must be reviewed and approved by the Department.

3. Add eight feet additional distance for each 100 gallons per day of design flows between 1,000 and 2,000 gallons per day, unless it can be demonstrated by a professional engineer or geologist by a hydrologic analysis or the use of a barrier, consisting of a minimum 30 mil PVC liner or equivalent, that contamination will be minimized. If effluent meets Treatment Level 3N and the Department has a maintenance oversight program in accordance with Section 14.D. of this Regulation, the distance addition is not required. Flows greater than 2,000 gallons per day must be hydrologically analyzed for flow, velocity, hydraulic head, and other pertinent characteristics as means of estimating distances required to minimize contamination as part of the Division site application and permitting process.

4. All horizontal setbacks to a well or potable water supply cistern must be met unless a variance by the Board of Examiners of Water Well Construction and Pump Installation Contractors is granted per Section 18.2 of the Water Well Construction Rules, 2 CCR 402-2. Setback requirements which may necessitate a variance are found within Section 10.2 or 11.4 of the Water Well Construction Rules, as applicable. The minimum horizontal setback that may be granted through a variance is to 25 feet.

5. If the structure is not used as a habitable unit, the isolation may be reduced by the local board of health to no less than 50 feet.

6. Building sewer installations shall meet the design requirements of the Colorado Plumbing Code



kennedyplumbingdenver.com

303-710-1417

gtykennedy@aol.com

Arapahoe County Public Health
15400 E 14th Place
Aurora, CO 80011

Conner Gerken
Supervisor

Variance Request

4-14-25

1. I would like a variance for the sewer line at 59508 E. Commande way, Strasburg, CO to be 6 feet from property line.
2. We would be using sch 40 PVC if approved.
3. This request is to get around a cement poured basketball court.
4. The original septic system was put in the front yard that is irrigated.
5. Please find attached the permit that was applied for on 2-27-25.
6. New system was designed by WWS Enterprises.

Bonded, Licensed and Insured



kennedyplumbingdenver.com

303-710-1417

gtykennedy@aol.com

7. Also find attached a letter from neighbors that border this request. Rigel and Brooke Stephanson
8. In addition find a variance request letter from W.W. Enterprises.

Respectfully,

Greg Kennedy
PO Box 627
Bennett CO 80102

303-710-1417

Colorado Master Plumber MP 188016

Arapahoe County Septic System installer C10001687
Adams County Septic System installer C10001321
Elbert County Septic System installer #2025-155

Bonded, Licensed and Insured



ARAPAHOE COUNTY PUBLIC HEALTH

Permit # _____

USE PERMIT APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS)

IMPORTANT NOTE: All items listed below MUST be completed and submitted at the same time:

- Arapahoe County Public Health Use Permit Application form AND Application fee.
- Arapahoe County Public Health Inspection Report completed by a CERTIFIED inspector (an inspection report completed by an uncertified inspector will NOT be accepted). If multiple OWTS systems serve the property, then a separate inspection report and fee for each OWTS system must be submitted.
- Copy of the most recent septic tank pumper's receipt (if available).
- If the OWTS system needs to be repaired, then a Minor or Major Repair Permit Fee may be applicable.

(PERMIT FEE IS NON-REFUNDABLE)

Submit electronically to water@arapahoegov.com

Completion of All Fields is Required

Application Date: _____

PROPERTY FOR WHICH PERMIT IS REQUESTED

Address: 59508 E Comanche Way

City: Strasburg State: CO Zip: 80136

Parcel Number (APN): _____ Lot Size in Acres: _____

Current Property Owner Name: Jeff and Tabitha Velasco

Owner Phone: 303-717-9365 Owner Email: _____

County: Arapahoe

Name of Applicant: Kennedy Plumbing Inc

Address: PO Box 627

City: Bennett State: CO Zip: 80102

Applicant Phone: 303-710-4417 Email: GtyKennedy@aol.com

Dwelling Type: ☒ Single Family ☐ Multi-Family ☐ Commercial ☐ Other _____

Number of Bedrooms (existing): 4

Water Supply: ☐ Public Community ☒ Private Well ☐ Public Non-Community ☐ Unknown
☐ Other

Is more than one building connected to the one OWTS system? ☐ Yes ☒ No

Are multiple OWTS serving the property? ☐ Yes ☒ No (Complete a separate inspection form and fee for each OWTS)

Reason for Use Permit (Check One): ☐ Sale ☐ Bedrooms Added (# Added _____)

☐ Change in Use (Commercial or Business) ☐ Addition of Mobile Home

☒ Other (explain): Current system is in front yard which they water

Use Permit Inspector

Name: _____ Phone: _____ Email: _____

National Association of Wastewater Technicians (NAWT) Certification Number: _____



APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT
(PERMIT FEE IS NON-REFUNDABLE)

Submit electronically to water@arapahoegov.com

APPLICATION TO: ☒ INSTALL (3010) ☐ EXPAND (3030) ☐ MAJOR REPAIR (3030) ☐ MINOR REPAIR (3035)

Application Date: 2-27-25

ADDRESS OF PROPERTY SERVED BY PROPOSED SYSTEM

Street Number: 59508 Direction: E Street Name: Comanche Way

Street Type: (Ave, Dr, St) Way Gate Code: _____

City: Strasburg State: CO Zip: 80136

County: ☒ Arapahoe

Assessor's Office Parcel Number (APN): _____

Lot Size (in Acres): _____

Legal Description (if no street address):

1/4 Sec _____ 1/4 Sec _____ Section _____ Township _____ Range _____ Lot _____ Block _____

Subdivision Name: _____

Property Owner

Name: Jeff and Tabitha Velasco

Address: 59508 E Comanche Way

City: Strasburg

State: CO Zip: 80136

Phone1: 303-717-9365

Phone2: _____

E-mail: _____

Applicant

☐ Same as Property Owner

Name: Kennedy P1b Inc

Address: PO Box 627

City: Bennett

State: CO Zip: 80102

Phone1: 303-710-1417

Phone2: _____

E-mail: Gty.Kennedy@aol.com

PROPOSED FACILITY

☒ Single Family ☐ Multi-Family ☐ Commercial ☐ Other _____

Number of Bedrooms: 4

Are Additional Bedrooms Planned in the future? ☐ Yes ☒ No

(Continued on back)



WATER AND SEWER INFORMATION

Water Supply:

☐ Public Water System ☐ Other ☐ Unknown ☒ Private Well

Supplier Name (for Hauled or Public Water): _____

Is property within boundaries of a sewer district? ☐ Yes ☒ No

If yes, sewer district: _____

Is the property within 400 ft. of a sewer line? ☐ Yes ☒ No

If yes, has waiver been received from the sewer/sanitation district? ☐ Yes ☐ No

PROPERTY MARKED (Inspection Info Only)

Is lot marked? ☒ Yes ☐ No Soil profile test pits marked? ☒ Yes ☐ No

INSTALLER / ENGINEER INFORMATION

System Installer: Kennedy P1b Inc

Soils Evaluation Technician WW Enterprises Job #: 24-4028

System Designer: WW Enterprises Job #: 24-4028

COMMERCIAL GENERAL INFORMATION (if applicable) ☐ Section Not Applicable

Type of Business: _____ Number of Employees: _____

Design Flow \geq 2,000 Gallons/Day ☐ Yes ☐ No

Are floor drains existing or proposed? ☐ Yes ☐ No

EPA Shallow Injection Well Inventory Request form completed? ☐ Yes ☐ No

APPLICANT'S SIGNATURE

Applicant's Name (Print): _____

Applicant's Signature: Greg Kennedy

Date: 2-27-25

For Arapahoe County Internal Use:

Permit Fee Paid by: ☐ Property Owner ☐ Applicant ☐ Other: _____

Date Paid: _____ Received By: _____

Payment Type: ☐ Cash ☐ Check (# _____) ☐ Charge

Amount Paid \$ _____

Aurora
15400 E. 14th Place, Suite 115
Aurora, CO 80011
303-363-3055

Greenwood Village
6162 S. Willow Drive, Suite 100
Greenwood Village, CO 80111
720-200-1670



Directions to Property

- Please provide CLEAR concise directions from the nearest Arapahoe County Public Health Department office to the site.
- Please note the condition of the road and ANY difficulties accessing the site (i.e., Gate codes. If a four-wheel drive vehicle is needed, arrangements to meet the inspector may be necessary).
- Our staff hours are 8 a.m.– 5 p.m. Monday–Friday.
- If the inspector cannot find the lot, the area of test pits or perc holes and/or cannot identify them due to improper marking, this will result in a second site visit and an additional charge.

By initialing the following you are confirming you understand the above statements:

GL The address or Lot # is CLEARLY marked

GL Test pits or perc holes flagged or staked and easily identifiable

Gate Code (if applicable) _____



ARAPAHOE COUNTY
PUBLIC HEALTH
Greenwood Village, CO 80111
303-795-4584

RECEIPT OF PAYMENT

☐ Greenwood Village ☒ Aurora

EH 0241

Date: 2.27.25

Account #: ARAP 48951

Invoice #: _____

Permit #: _____

Received from: Greg Kennedy

Received by: A. Higgins

Remarks: New Install

Amount Received: \$ 1,120

☐ Cash ☐ Credit Card ☒ Check # 2926

- ☐ Class Fees (*Explanation)
- ☐ Copies (*Explanation)
- ☐ Materials (*Explanation)
- ☐ Donation: Program _____
- ☐ Other (*Explanation)
- ☒ OWTS ☒ New ☐ Repair ☐ Use Permit
- ☐ Installers' & Cleaners' License
- ☐ Plan Review ☐ Food ☐ Pool
- ☐ Inspections ☐ OWTS ☐ COO
- ☐ Retail Food Establishment License

*Explanation: New Install

Total Charges: \$ 1,120.00

Balance Due: \$ 0

720 384 3669

RE: Acknowledgment of Septic System Work Near Property Line

To whom it may concern,

We are writing regarding the property owned by Jeff and Tabitha Velasco, located at 59508 E Commanche Way. As the owners of the adjacent property to the east, 59548 E Commanche Way, we would like to formally acknowledge that we have been made aware of the septic system issues they are experiencing.

We understand that due to these issues, they are unable to relocate the existing basketball court and must install underground piping closer to our property line. While the new piping will remain within their property boundaries, we recognize that it will be placed approximately 4–5 feet from our property line.

Please feel free to contact us if any additional information or clarification is needed.

Rigel & Brooke Stephenson

Rigel Stephenson

Brooke Stephenson



W.W. ENTERPRISES

Consulting Engineering

2115 9th Street, P.O. Box 1242, Limon, Colorado 80828 (719) 775-9314

March 31, 2025
Project No. 24-4028

Mr. Greg Kennedy
Kennedy Plumbing, Inc.
PO Box 627
Bennett, CO 80112

RE: Request for Variance for the proposed replacement OWTS at 59508 E.
Commanche Way, Strasburg, Arapahoe County, Colorado.

Dear Greg;

This letter is to follow-up our correspondence for the above referenced OWTS. The original OWTS is failing and needs to be replaced. The original OWTS is northeast of the house near the northeast property corner under a grass lawn. The replacement OWTS location is south of the house in the back yard. The existing septic tank located east of the house is to be abandoned. The new septic tank location is to be placed near the new OWTS in the back yard, so the effluent pipe from the house will drain to the new OWTS location. The proposed OWTS location is well below the existing septic tank elevation, so there is adequate drop for gravity flow from the house to the new OWTS location.

The new test pits for the replacement OWTS were observed on November 22, 2024. The test pit results and OWTS recommendations were discussed in our "Subsurface Investigation and Soils Report and Design for Onsite Wastewater Treatment System (OWTS)" report dated December 19, 2024. The piping for the new system was to be from the east end of the existing septic tank south to the new OWTS location in the back yard. The drain pipe is shown to be placed between the edge of the concrete slab and the southeast property line.

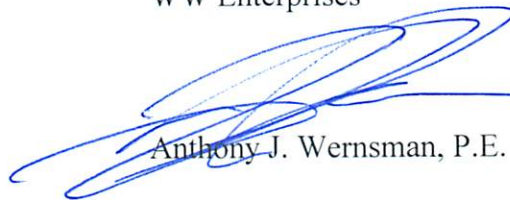
There is an existing concrete slab south and east of the house. The concrete slab extends almost to the southeast property line. The edge of the concrete slab is closer than 10' from the property line. Therefore, the drain pipe from the septic tank to the new the OWTS location can not be placed between the edge of the concrete slab and the property line while maintaining the minimum 10' side setback. To maintain the 10' side setback for the pipe construction, the existing concrete slab will need to be cut and removed. It is requested that a variance be given to allow the drain pipe to be inside the 10' side setback along the edge of the existing concrete slab. This will allow for the construction of the needed replacement OWTS without needing to cut and remove the east end of the concrete slab.

Per Table 6 "Minimum Horizontal Distances in Feet Between OWTS Components Installed after November 15, 1973 and Water, Physical, and Health Impact Features", a minimum 50' is required between the effluent line and any water well. If the pipe is within 50' of a well, it is to be encased per Note 2 of Table 6. The existing well on the property is located west of the southwest house corner, so it is more than 50' from the proposed pipe location. The location for the water well for the property to the southeast needs to be verified. If it is within the minimum 50' separation distance, the pipe will need to be encased per Note 2.

This variance is requested to allow the new OWTS to be installed without having to saw cut and remove the existing concrete slab in the back yard. The added cost for removal and replacement of the concrete slab would add to the cost of the replacement system. The variance for the needed 10' side setback requirement would allow for replacement OWTS construction without the added cost of concrete slab removal and replacement.

Please contact our office, if you have any questions concerning this information.

Respectfully;
WW Enterprises


Anthony J. Wernsman, P.E.





W.W. ENTERPRISES

Consulting Engineering

2115 9th Street, P.O. Box 1242, Limon, Colorado 80828 (719) 775-9314

December 19, 2024
Project No: 24-4028

**SUBSURFACE INVESTIGATION AND SOILS REPORT
AND DESIGN FOR ONSITE WASTEWATER
TREATMENT SYSTEM (OWTS)**

DESCRIPTION: **59508 E. Commanche Way, Strasburg,
Arapahoe County, Colorado**



Prepared for:
Kennedy Plumbing, Inc.
PO Box 627
Bennett, CO 80102
303-710-1417

SCOPE

This study was done to perform the Onsite Wastewater Treatment System (OWTS) test pit evaluation at the above referenced site. The system recommendations for the new OWTS were requested. The original OWTS and septic tank were sized for a 3 bedroom house. The house now has 5 bedrooms, so a larger tank and new OWTS are needed. The new pits for the proposed OWTS are south of the existing house and existing septic tank. The existing septic tank is too small for the new 5- bedroom system and will not be used with the new OWTS.

The site is located in Arapahoe County, Colorado, east of the Town of Strasburg. Groundcover consists of a grass lawn north of the existing house and native grasses in the area of the proposed OWTS. The area of the new OWTS is southwest of the existing house and septic tank near the southwest end of the property. The property slopes approximately 8 % to the southeast in the area of the proposed OWTS and test pits. The new OWTS is to be located at least 100' from the water well at the northeast corner of the existing red shed southwest of the existing house.

SOILS INVESTIGATION FOR THE ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS)

SITE AND SOIL EVALUATION

PRELIMINARY INVESTIGATION

A. Property Information

- 1) The site address will be 59508 E. Commanche Way, Colorado.
- 2) The site legal description is Lot 8, Block 1, Schmitt Subdivision in part of the N ½ of Section 2, T. 4 S., R. 62 W., Arapahoe County, Colorado.
- 3) There is an existing house and detached garage on the site. The existing septic tank is located approximately east of the house. The existing failing OWTS bed is north and slightly down slope from the existing septic tank. The existing septic tank will be replaced with a new septic tank south of the house, near the new OWTS location. The new septic tank location will be south and down slope from the existing septic tank. The new OWTS trenches are to be placed south of the house and new septic tank in the backyard closer to the south end of the property.
- 4) The water well for the property is located just north of the northeast corner of the red shed southwest of the house. This existing well location will provide the minimum 100' separation between the well and the proposed OWTS.

B. Department Records

Property lines were taken from the Schmitt Subdivision Plat and were used for developing the Location Maps in the report. The contour line information was taken from the Strasburg Quad Map and site observations at the time of test pit evaluation.

C. Published Site Information

1) Topography

The Strasburg Quad Map was reviewed and indicates southeasterly slopes consistent with the observed site topography. The contour lines and slopes on the site are shown on the Location Maps in the report.

2) Soil Data

The "Soil Survey of Arapahoe County, Colorado" from the NRCS was reviewed. Terry-Olney-Thedalund sandy loams, 5 to 20 % (TeE) is on the entire property. The TeE is mostly rangeland. Because the soils are steep and are severely susceptible to erosion, they are not suited to cultivated crops. The few areas that were cultivated have been severely eroded and, in places, the subsoil has been exposed. Numerous gullies have formed. In most places, however, the formerly cultivated areas have been reseeded to grass. Good range management, including regulation of grazing, is essential in controlling erosion. Capability unit Vle-3; Sandy Plains range site; tree planting suitability group 4.

D. Location of Physical Features

The existing house location is near the northeast end of the property. The failing OWTS location is north and east of the house. The proposed OWTS location is south of the house closer to the southwest end of the property behind the house. The slope at the site is approximately 8 % to the southeast across the proposed OWTS location. There is an approximate 6' drop from the rear of the house to the new OWTS location. Refer to the Location Maps in the report for additional details.

E. Preliminary Soil Treatment

From previous experience with the soils in the area and the slope at the site, it is anticipated that a gravity flow OWTS can be used from the existing outlet pipe from the house to the new septic tank and OWTS location.

F. Other Information Requested

Currently, no additional information has been requested.

G. Additional Information

1) Survey

Front and rear property markers were located at the time of site observation. Therefore, it appears that the property has been surveyed.

2) Easements

An 8' utility easement is on the front property line along E. Commanche Way.

3) Floodplain Maps

Little Comanche Creek is approximately 1.5 miles west of the property. Spring Gulch starts approximately ¼ mile north of the property. The proposed OWTS area is at least 20' above the flowline of the creeks. Therefore, it appears that the site is not in the flood plain of the creeks.

4) **Geology and Basin Maps and Descriptions**

The 1979 Ogden Tweto "Geologic Map of Colorado" was reviewed. The map indicates that Tkd1 – Denver Formation and Lower part of the Dawson Arkose is at the site. These include Arkosic sandstone, shale, mudstone, conglomerate, and local coal beds.

5) **Aerial Photographs**

Satellite maps of the area were reviewed to see if any items of note were apparent. The constructed houses, vegetation, topography, and creeks near the property were noted.

6) **Climate Information**

From the USDA 25-YEAR 24 HOUR PRECIPITATION annual isopluvials for Colorado, the site is in an area of approximately 32" of evaporation per year.

7) **Delineated Wetlands Maps**

The property has an existing house, detached garage, and water well. It is covered with native grasses and a lawn in front of the house. The up and down slope areas of this area of the property appear to have the same native vegetation throughout. Therefore, it appears that the moisture content across the site is consistent, and no wetlands are present in the area of the proposed OWTS.

RECONNAISSANCE VISIT

A. **Landscape Position**

The lot is an approximate rectangle with the long dimension southwest to northeast. The existing house is near the north end of the property. The existing septic tank is east of the existing house. The failing OWTS is north of the existing septic tank in the front yard of the house near the northeast property corner. The proposed septic tank and OWTS are south of the existing house and backyard near the south end of the property.

B. **Topography**

The proposed OWTS is to be located south of the existing house and backyard. The new septic tank is to be located south of the existing backyard just north of the proposed OWTS location near the south end of the property. With the elevation difference from the backyard to the trench location, gravity flow should be available.

C. **Vegetation**

The native vegetation in the area of the proposed OWTS is mostly native grasses. They appear consistent across the proposed OWTS area on the property.

D. **Natural and Cultural Features**

The natural features on the property are the slopes and vegetation. No cultural features were observed.

E. **Current and History Land Use**

Historically, the area has been used with native grass pastures for livestock and wildlife. The site and the surrounding properties now have houses and OWTSs. It is anticipated that the undeveloped portions of the properties in the area will remain with native grass.

DETAILED SOIL INVESTIGATION

A. Soil Investigation

Method Used: Visual and tactile evaluation from two or more soil profile test pit excavations. The soils investigation, evaluation, and sampling for the test pits was performed on November 22, 2024. The soil was evaluated in the field and laboratory. The test pits are located northeast of the existing failing OWTS bed east of the existing house. The Location Maps and Log of Test Pits provide the information for the site and soil encountered.

B. Percolation Test

A percolation test was not performed.

C. Visual and Tactile Evaluation

The soils were observed and tested in the field and laboratory by Joe Wernsman under the supervision of Anthony J. Wernsman, P.E., who has been working as a field (soil drilling, sampling, testing and percolation tests) and laboratory (sieve analysis, Atterberg Limits, etc.) technician since 1989.

SOIL DESCRIPTIONS FOR DETERMINATION OF A LIMITING CONDITION

A. Soil Horizon Depth

The test pit site observations were used to generate the Log of Pits included with this report.

B. Depth to Bedrock

Bedrock was not encountered in the test pits.

C. Depth to Periodically Saturated Soil

1) Redoximorphic features

No redoximorphic features were encountered.

2) Standing Water

No groundwater or standing water were observed.

D. Any Other Soil Characteristics

The soils at the site are relatively consistent in the test pits. Topsoil with roots overlies the site. Reddish-brown, damp, silty sand was encountered beneath the topsoil to the 8' bottom of test pit depth in TP1 and to an approximate 7' depth in TP2. Gray with white, damp, silt/clay with sand was encountered beneath the silty sand to the 8' bottom of test pit depth in TP2.

The soils were observed, sampled, tested, and compared to the soils indicated in Table 10 "Soil Treatment Area Long-term Acceptance Rates by Soil Texture, Soil Structure, Percolation Rate and Treatment Level". The silty sand is Soil Type 2A sandy loam with blocky (bk) soil structure and moderate (2) to weak (1) soil grade. The lower silt/clay with sand is Soil Type 3 sandy clay loam with blocky (bk) soil structure and moderate (2) soil grade. The silty sand was not cemented. The Soil Type 3 sandy clay loam is the most limiting soils encountered.

The 1979 Ogden Tweto "Geologic Map of Colorado" indicates that Tkd1 – Denver Formation or Lower Part of the Dawson Arkose is at the site. This includes arkosic sandstone, shale, mudstone, conglomerate, and local coal beds. Using the National Soil Survey Center Natural Resources Conservation Service (NRCS) "Field Book for Describing and Sampling Soils" (NRCS Field Book), a cementation class for the silty sand is non-cemented (NC) to weakly cemented (W). Therefore, the silty sand and silt/clay with sand are not limiting layers. The silty sand soil tests as a Soil Type 2A sandy loam. The silt/clay with sand soil test as a Soil Type 3 sandy clay loam. Since the silty sand and silty/clay with sand soils are in the area of the lower part of the Dawson Arkose, it is recommended that the OWTS be designed as a Soil Type 3A sandy clay loam soil with a with an LTAR of 0.30 gpd/sf.

CONSTRUCTION, LAND USE, AND DIFFICULTIES

The slopes at the site typically require that the trenches be oriented parallel to the contour lines (perpendicular to the slope). The undeveloped portions of the properties in the area will continue to be in native grasses. With the slopes on the site, gravity flow should be available from the existing house outlet pipe to the proposed septic tank location and from the new septic tank to the new OWTS trenches.

HOLE AND PIT MARKING

The test pits at the site were backfilled the same day after they were evaluated. Their location can be determined from the ground scar from filled test pits and the locations shown on the Location Maps.

TEST PIT RESULTS

On November 22, 2024, a subsurface investigation was conducted at this site by WW Enterprises. Two (2) test pits had been excavated in the area of the OWTS location. The soils at the site are relatively consistent in the test pits. Topsoil with roots overlies the site. Reddish-brown, damp, silty sand was encountered beneath the topsoil to the 8' bottom of test pit depth in TP1 and to an approximate 7' depth in TP2. Gray with white, damp, silt/clay with sand was encountered beneath the silty sand to the 8' bottom of test pit depth in TP2.

The soils were observed, sampled, tested, and compared to the soils indicated in Table 10 "Soil Treatment Area Long-term Acceptance Rates by Soil Texture, Soil Structure, Percolation Rate and Treatment Level". The silty sand is Soil Type 2A sandy loam with blocky (bk) soil structure and moderate (2) to weak (1) soil grade. The lower silt/clay with sand is Soil Type 3 sandy clay loam with blocky (bk) soil structure and moderate (2) soil grade. The silty sand was not cemented. The Soil Type 3 sandy clay loam is the most limiting soils encountered.

The 1979 Ogden Tweto "Geologic Map of Colorado" indicates that Tkd1 – Denver Formation or Lower Part of the Dawson Arkose is at the site. This includes arkosic sandstone, shale, mudstone, conglomerate, and local coal beds. Using the National Soil Survey Center Natural Resources Conservation Service (NRCS) "Field Book for Describing and Sampling Soils" (NRCS Field Book), a cementation class for the silty sand is non-cemented (NC) to weakly cemented (W). Therefore, the silty sand and silt/clay with sand are not limiting layers. The silty sand soil tests as a Soil Type 2A sandy loam. The silt/clay with sand soil tests as a Soil Type 3 sandy clay loam. Since the silty sand and silty/clay with sand soils are in the area of the lower part of the Dawson Arkose, it is recommended that the OWTS be designed as a Soil Type 3A sandy clay loam soil with a LTAR of 0.30 gpd/sf.

SIZE AND DESIGN-BASIS

The following items were used to determine the size of the required Onsite Wastewater Treatment System (OWTS) for the proposed site.

- * Existing house with 5 bedrooms.
- * Soil Type 3A sandy clay loam soils for design.
- * LTAR of 0.30 gpd/sf used for designing the system.
- * Chamber trench system.
- * No flow from water softener, spas, or pools

ENGINEERED SYSTEMS

With the Soil Type 3A sandy clay loam soil designation to be used at the site, an engineered system is required for this system. A gravity flow trench system is to be used for the site. The effluent is to be lifted to the distribution box with a pump from the existing septic tank south of the house. Groundwater and restrictive layers were not encountered, the ground slope is less than 20 degrees, and pressure distribution is not to be used.

CALCULATION OF INFILTRATIVE SURFACE OF SOIL TREATMENT AREA

- A. The bottom area of trenches is the only infiltrative surface. No sidewall credit is allowed or taken.
- B. The long-term acceptance rate (LTAR) for the Soil Type 3A sandy clay loam soil to be used at the site is 0.30 gallons per day per square foot (gal/day/sf), per Table 10, and is to be used for designing this system.
- C. The site evaluation included visual tactile evaluation and laboratory testing of the soils at the property. The lesser LTAR was used to determine the size of the soil treatment area.

- D. The factors for adjusting the size of the soil treatment area were taken from Tables 12 and 13. The size adjustment factors for methods of application for a bed is 1.2 for gravity method of effluent application from treatment unit preceding soil treatment area. The size adjustment factor for types of distribution media is 1.0 for beds when rock and pipe are used.
- E. The required area for a soil treatment area is determined by the following formula:

$$\text{Soil Treatment Area (STA) (in square feet)} = \frac{\text{Design Flow (gal/day)}}{\text{LTAR (gal/day/sf)}}$$

- 1) Adjusted Soil Treatment Area = Required Soil Treatment Area x Size Adjustment Factor(s).
- 2) Size adjustment factors for methods of application are in Table 12.
- 3) Size adjustment factors for types of storage/distribution media are in Table 13.
- 4) The required soil treatment area is receiving TL1 effluent and may be multiplied by one size adjustment factor from Tables 12 and 13, or both.
- 5) The soil treatment area is receiving TL1 effluent, so it is not required to be pressure dosed.

ALLOWABLE SOIL TREATMENT AREA REDUCTIONS AND INCREASES

- A. The soil treatment area size is determined by dividing the design flow rate by the long-term acceptance rate may be adjusted by factors for method treatment, soil treatment area design, and type of distribution media.
- B. For the purpose of Tables 12 and 13, a "baseline system" (adjustment factor of 1.00) is considered to be TL1 applied by gravity to a gravel-filled trench.
- C. The maximum reduction from all combined reductions including higher level treatment shall be not greater than 50 percent (50%) of the baseline system required for a soil treatment area.
- D. The higher-level treatment categories listed in Table 4 do not apply for this system.

DESIGN OF DISTRIBUTION SYSTEMS

The design of the distribution system was done per "On-Site Wastewater Regulations" for the Arapahoe County Health Department.

- A. General
 - 1) The infiltrative surface and distribution lines must be level.
 - 2) The infiltrative surface must be no deeper than four feet (4'). The depth will be measured from the downslope side of the trench.
 - 3) Trenches must follow the ground surface contours so variations in infiltrative surface depth are minimized.
 - 4) Pipe for gravity distribution must be no less than three-inch (3") diameter.
 - 5) A final cover of soil suitable for vegetation at least ten inches (10") deep must be placed from the top of the geotextile or similar pervious material in a rock and pipe system, chamber, or manufactured media up to the final surface grade of the soil treatment area.

- 6) Following construction, the ground surface must be graded to divert storm water runoff or other outside water from the soil treatment area. The area must be protected against erosion. Subsurface drains upslope of the soil treatment area may be installed to divert subsurface flow around the area.
 - 7) Backfilling and compaction of soil treatment areas shall be accomplished in a manner that does not impair the intended function and performance of the storage/distribution median and soil and distribution laterals, allows for the establishment of vegetative cover, minimizes settlement, and maintains proper drainage.
- B. Distribution Lines**
- 1) Distribution lines in a soil treatment area must be as even as possible. Uneven settling of portions of the distribution system following construction must be addressed by provisions in the design to adjust flows between lines.
 - 2) Distribution lines shall be a maximum 150' long. These will not be used in this system.
 - 3) Distribution lines longer than 100' shall be pressure dosed. This does not apply for this site, as pressure dosing will not be used.
 - 4) The end of a distribution pipe or chambers must be capped, unless it is in a bed or trenches in a level soil treatment area, where the ends of the lines may be looped.
- C. Inspection Ports**
- 1) The bottom of the inspection port tube must extend to the infiltrative surface and not be connected to the end of the distribution pipe.
 - 2) Additional inspection ports connected to distribution pipes may be installed.
 - 3) The top of the inspection ports may be below the final grade of the surface if each has a cover at the surface such as a valve box for a lawn irrigation system.
- D. Trenches**
- 1) Trenches must be three feet (3') wide or less.
 - 2) The separating distance between trenches must be a minimum of four feet (4'), sidewall-to-sidewall.
 - 3) Chambers used in a trench must be as close to the center of the trench as possible.
- E. Beds**
- Beds will not be used for this system.
- F. Serial and Sequential Distribution**
- 1) A serial or sequential distribution system may be used where the ground slope does not allow for suitable installation of a single, level soil treatment area unless a distribution box or dosing chamber is used. For the slopes on the site, it is not anticipated that this will be needed.
 - 2) The horizontal distance from the side of the absorption system to the surface of the ground on a slope must be adequate to prevent lateral flow and surfacing.

- 3) Adjacent trenches or beds must be connected with a stepdown/relief line or a drop box arrangement such that each trench fills with effluent to the top of the gravel or chamber outlet before flowing to succeeding treatment area.
- G. Storage/Distribution Media
- 1) Rock and Pipe
Rock and Pipe will not be used for this system.
 - 2) Tire Chips
Tire chips will not be used for this system.
 - 3) Chambers
Infiltrator Quick 4 Chambers will be used for this system.
 - 4) Manufactured Media
Manufactured media will not be used for this system.
- H. Pressure Distribution
Pressure distribution will not be used for this system.
- I. Driplines
Driplines will not be used for this system.

SOIL REPLACEMENT

Soil replacement will not be used for this system.

SEPTIC TANK

Per Table 9, the minimum septic tank size is based on the number of bedrooms is a 1500-gallon tank capacity for 5 bedrooms. The existing septic tank is to be replaced. The septic tank is to be designed for a maximum 48" buried depth.

DISTRIBUTION BOX

A variable rate distribution box is to also be used for the new beds to evenly distribute the effluent between the trenches. This will also allow for future adjustment of effluent to each trench, if needed.

DESIGN OF SOIL TREATMENT AREA (STA)

Per Table 2 Single-Family Residential Design Flows, the proposed 5-bedroom house for the property is to have a design flow of 675 gallons per day.

$$\begin{aligned}
 \text{Soil Treatment Area (STA)} &= \text{Design Flow (gallons per day)} / \text{LTAR (gal/day/sf)} \\
 &= 675 \text{ gallons per day} / 0.30 \text{ gal/day/sf} \\
 &= 2250 \text{ square feet (sf)}.
 \end{aligned}$$

$$\begin{aligned}
 \text{Adjusted Soil Treatment Area} &= \text{Required STA} \times \text{Size Adjustment Factor(s)} \\
 \text{Trench Area} &= 2250 \text{ sf} \times 1.0(\text{for trench}) \times 0.7(\text{for chambers}) \\
 &= 1575 \text{ sf}
 \end{aligned}$$

Trench Calculations

1575 sf / 3' wide chambers = 525' length of trenches.

525' / 6 trenches = 88' long trenches. Each trench will have 88' / 4' per chamber = 22 chambers. The total number of chambers needed is 22 chambers per trench x 6 trenches = 132 chambers.

Use 6 trenches 88' long.

RECOMMENDATIONS

Recommended are a septic tank of the required size followed by a standard absorption trench system with chamber construction. The chamber trench system is to be constructed with a bottom area of 1575 square feet (6 trenches with 88' length). The trench system is to be constructed in accordance with the design criteria discussed in "On-Site Wastewater Regulations" for the Arapahoe County Health Department. Refer to the attached "OWTS Design" drawings (page 1 through 5) for the layout of the systems.

INSPECTION

W.W. Enterprises and the Arapahoe County Health Department will conduct a final inspection of this Onsite Wastewater Disposal System. The contractor is to contact us no sooner than 24-hours prior to the final inspection. All components will be visible to the inspector. As-built drawings will be provided to the Owner after the final inspection.

MAINTENANCE

The Maintenance of your Onsite Wastewater Disposal System is very important.

1. Direct surface water away from the trenches. Lawn irrigation equipment should not be placed above or near the trenches.
2. Seed the soil above the trench with native grasses. Sun light is an important part of the dispersion of the wastewater.
3. The septic tanks should be cleaned out by a licensed contractor every two years or as required.
4. The use of a water softener will increase the amount of wastewater entering the system and is not recommended. If a water softener is used, a separate leaching system should be constructed. Contact Arapahoe County Health Department for further details on water softeners.
5. Refer to Appendix I - "General Maintenance Recommendations for Onsite Wastewater Treatment Systems (OWTS)" for additional recommendations.

GENERAL

The findings and recommendations of this report have been obtained in accordance with accepted engineering practices in the field of Geotechnical Engineering. There is no other warranty, either expressed or implied.

All future owners should be directed to those items under "General Maintenance Recommendations for Onsite Wastewater Treatment Systems (OWTS)" in Appendix I, included in this report.

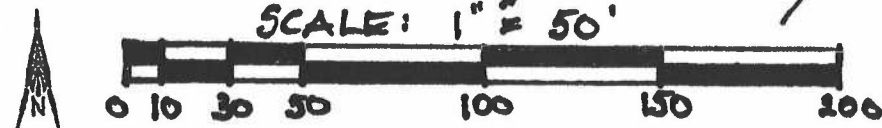
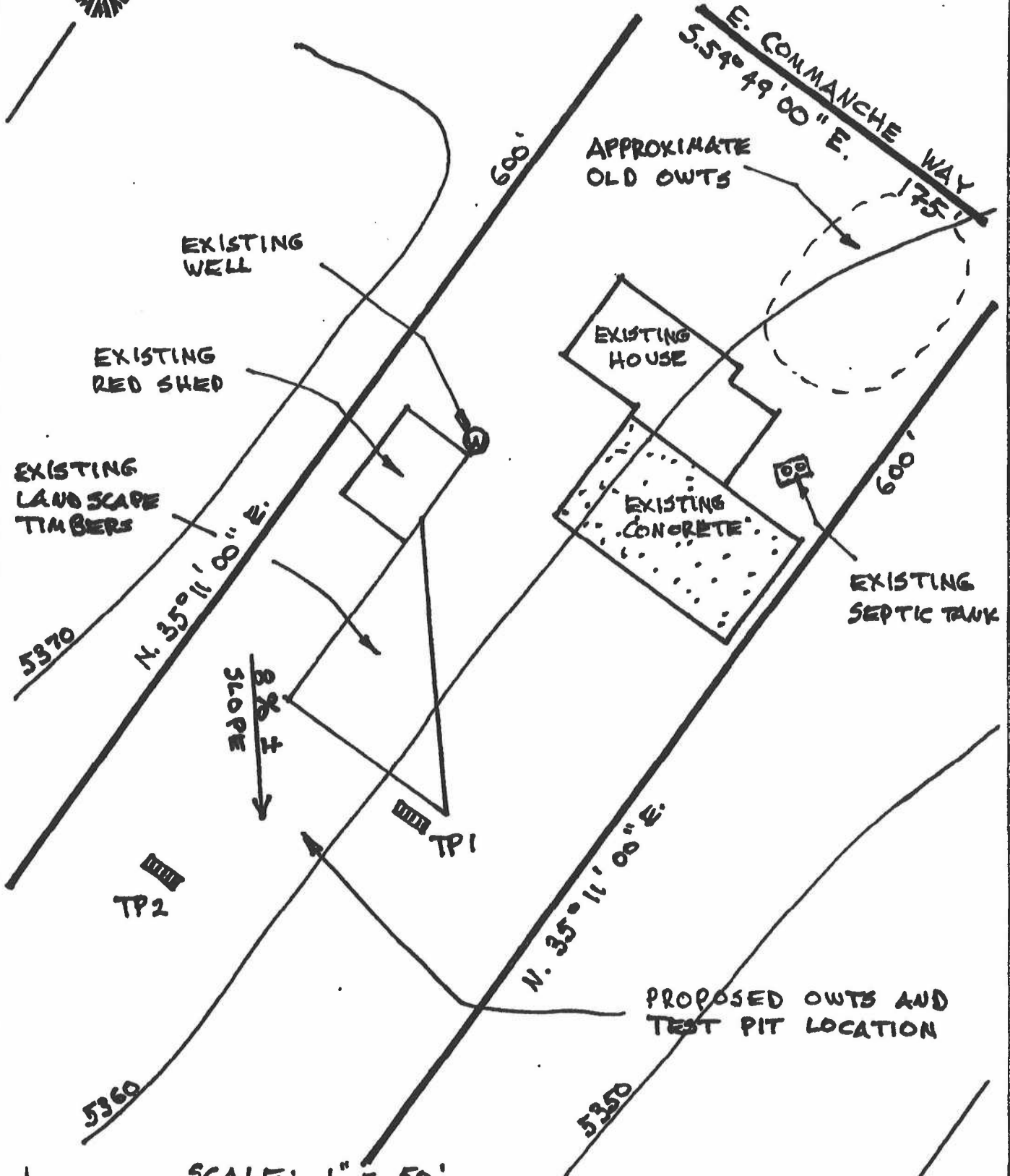
If there are any questions concerning information in this report, please contact our office.

If the consistency or color of the soil is different than in the soils report, contact this office immediately.



W.W. ENTERPRISES

LOCATION MAP - SITE



Name: Kennedy Plumb
Project No.: 24-4028

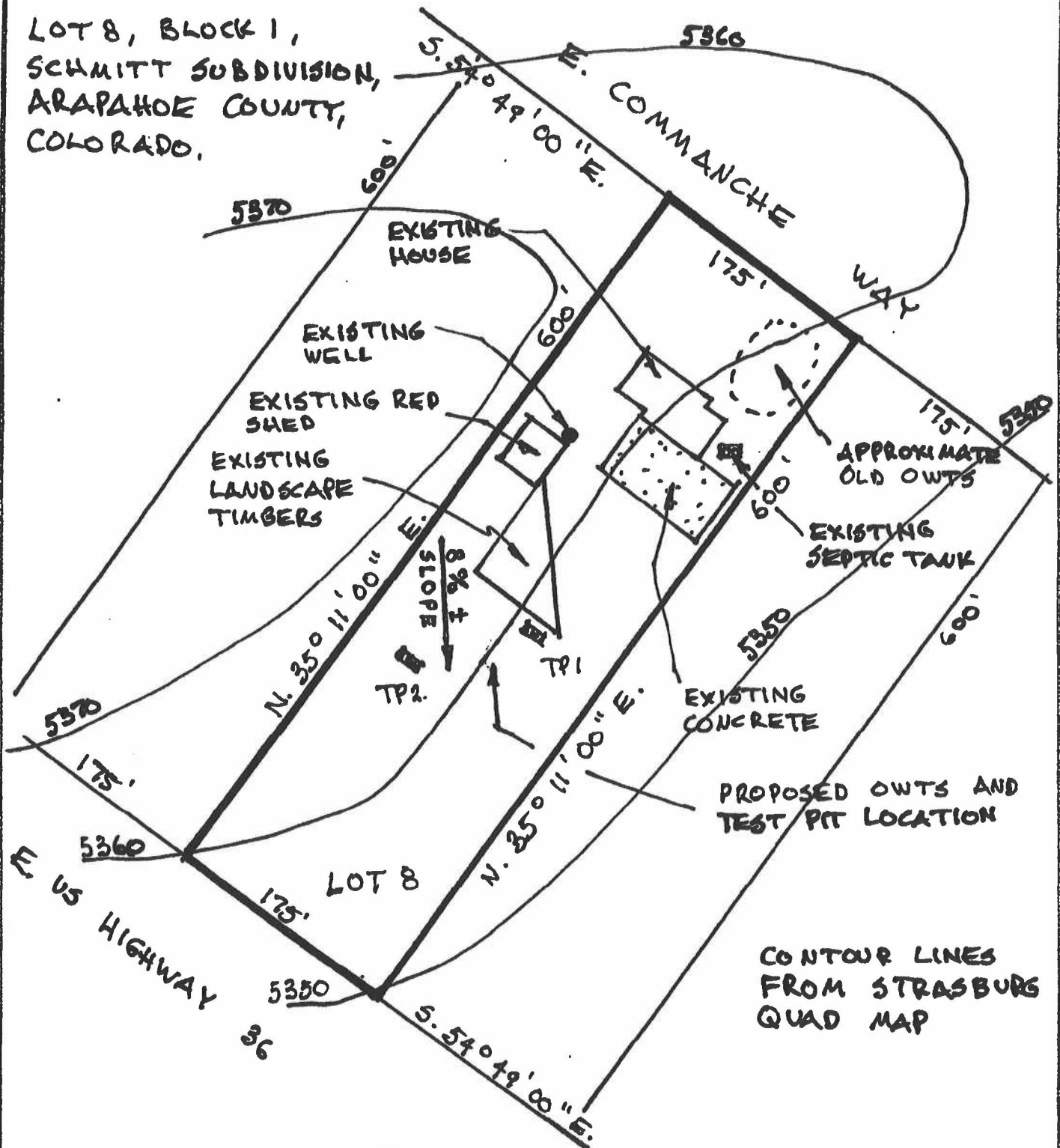
59508 E. Commander Way, Strasburg, Arapahoe County, Colorado



W.W. ENTERPRISES

LOCATION MAP - PROPERTY

LOT 8, BLOCK 1,
SCHMITT SUBDIVISION,
ARAPAHOE COUNTY,
COLORADO.



SCALE: 1" = 100'



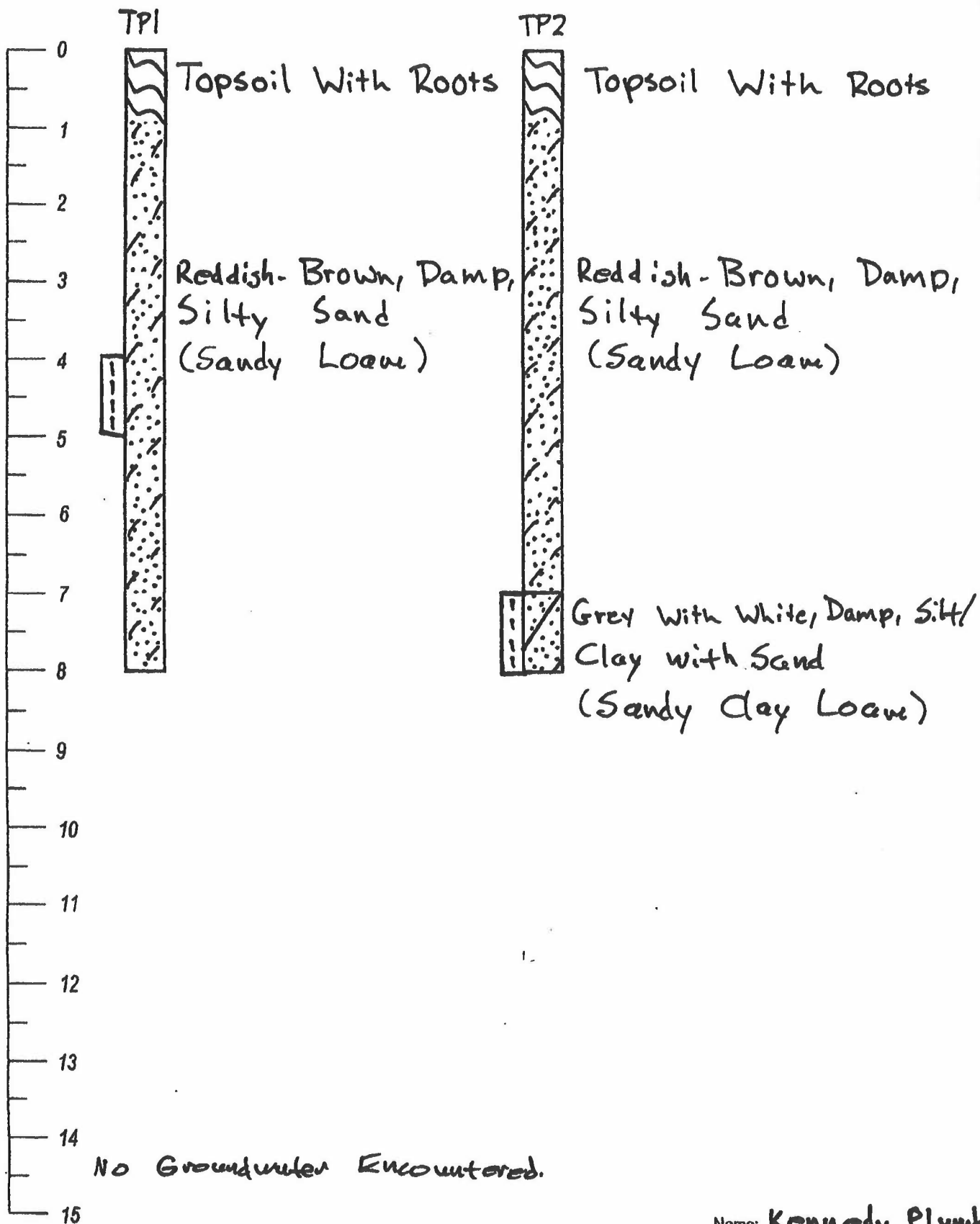
Name: Kennedy Plumb
Project No.: 24-4028

59508 E. Commandache Way, Strasburg, Arapahoe County, Colorado



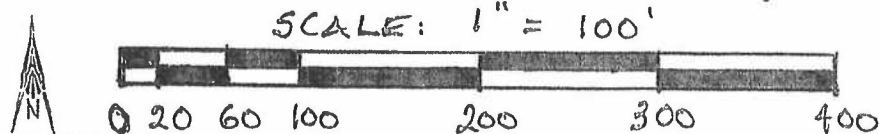
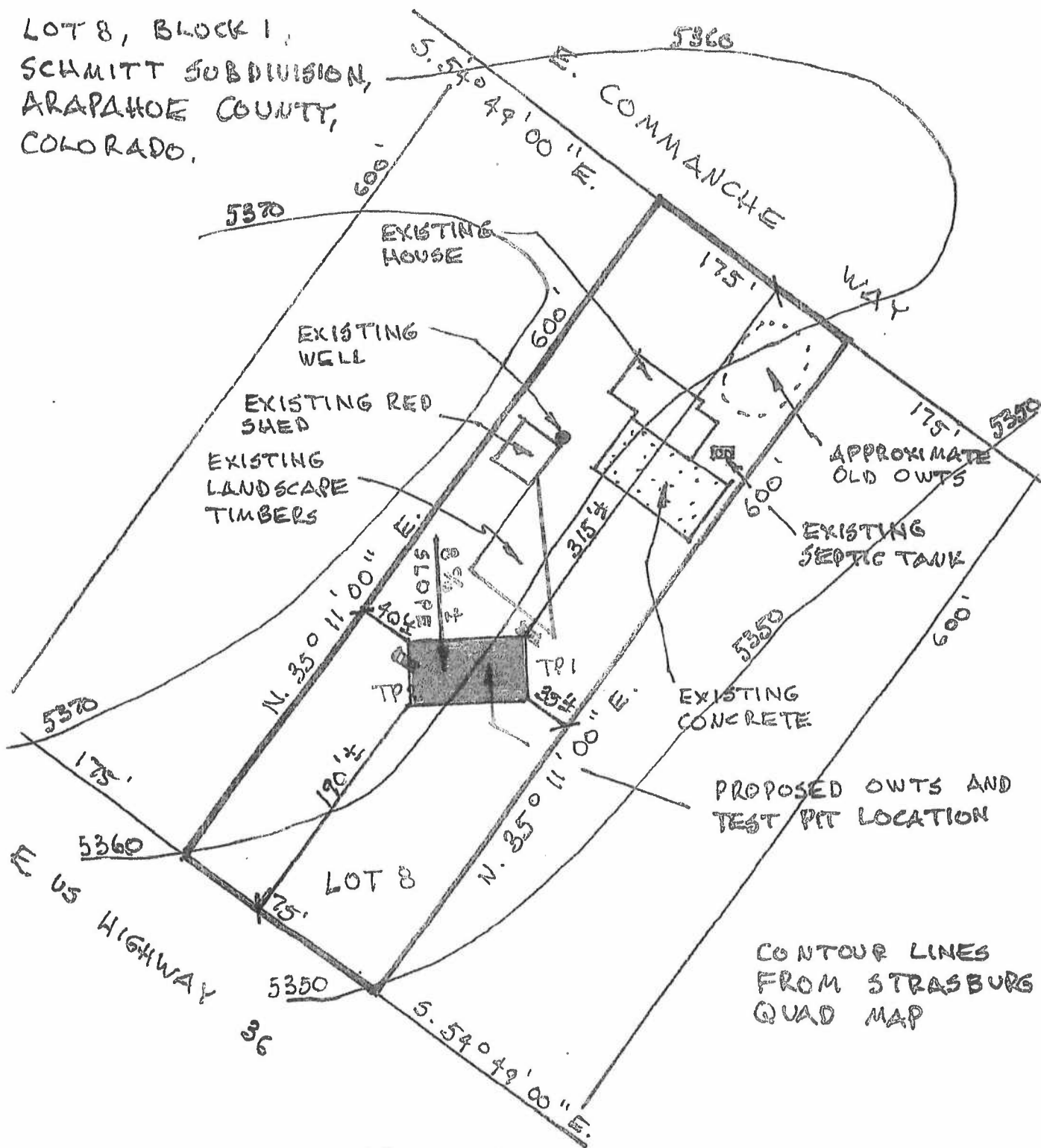
W.W. ENTERPRISES

LOG OF TEST HOLES



Name: Kennedy Plumb
Project No.: 22-2210

LOT 8, BLOCK 1,
SCHMITT SUBDIVISION,
ARAPAHOE COUNTY,
COLORADO.



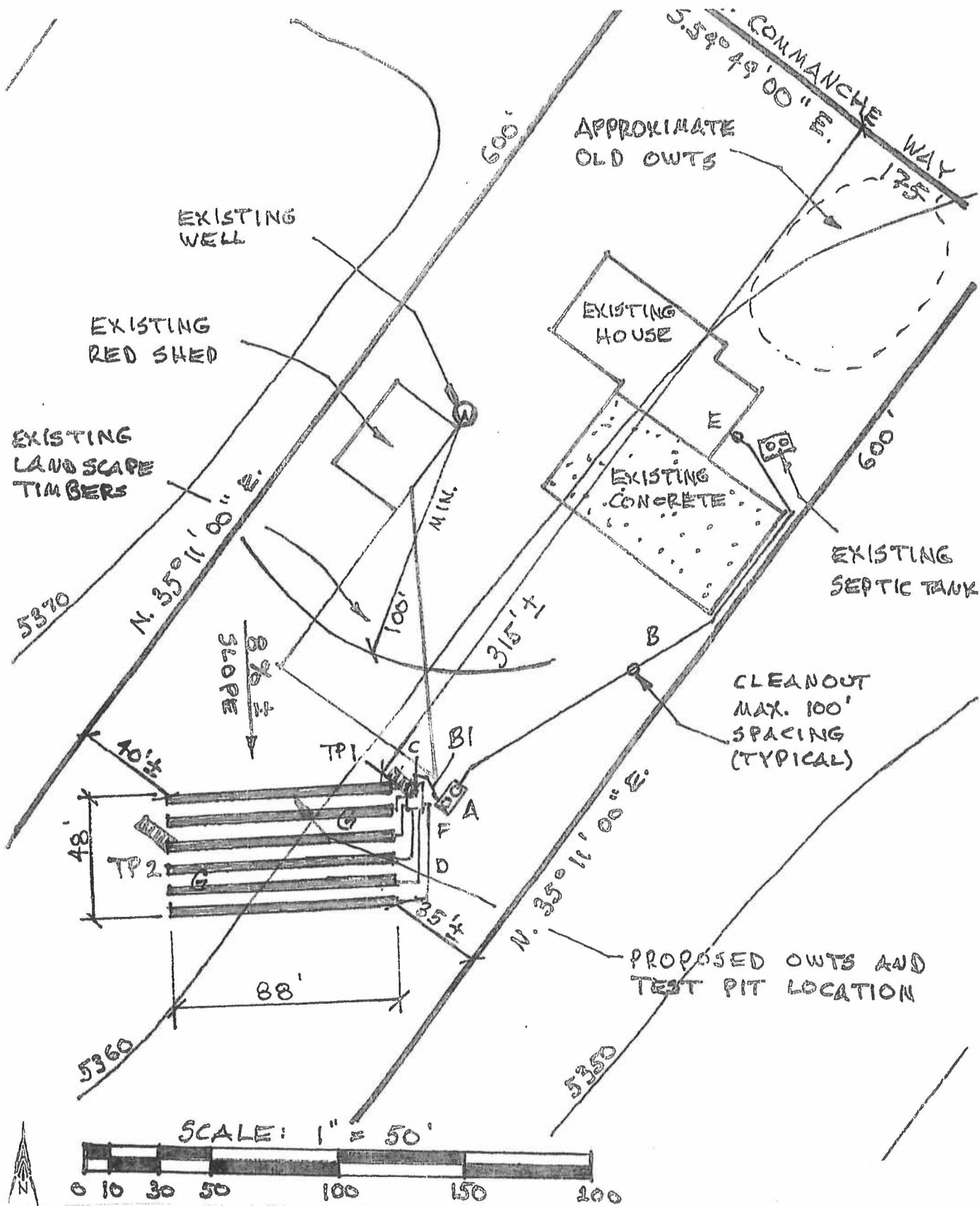
W.W. ENTERPRISES
P.O. Box 1242
Limon, CO 80828

OWTS LOCATION/
SETBACK PLAN

PROJECT NO.

24 - 4028

PAGE 1 OF 5



W.W. ENTERPRISES
 P.O. Box 1242
 Limon, CO 80828

OWTS SYSTEM
 LAYOUT PLAN
 - TRENCH -

PROJECT NO.
 24-4028
 PAGE 2 OF 5

KEY	
A	1500 GAL. 2 COMP. SEPTIC TANK
B	4" SCHED. 40 PVC PIPE: 170 ± LF
C	DISTRIBUTION BOX ELEV. = 5362.4 ±
D	4" SCHED. 40 PVC DISCHARGE PIPES
E	OUTLET PIPE FLOWLINE = 5366.0 ±. BASEMENT SLAB = 5360.0 ±
F	SEPTIC TANK OUTLET ELEV. = 5362.6 ±.
G	TRENCHES - BOTTOM MAX. 4' BELOW GRADE = 5361.9 TO 5358.1 ±.

B1 4" SCH. 40 PVC
PIPE: 15' ± LF

VERIFY
(EXISTING)

VERIFY
(EXISTING)

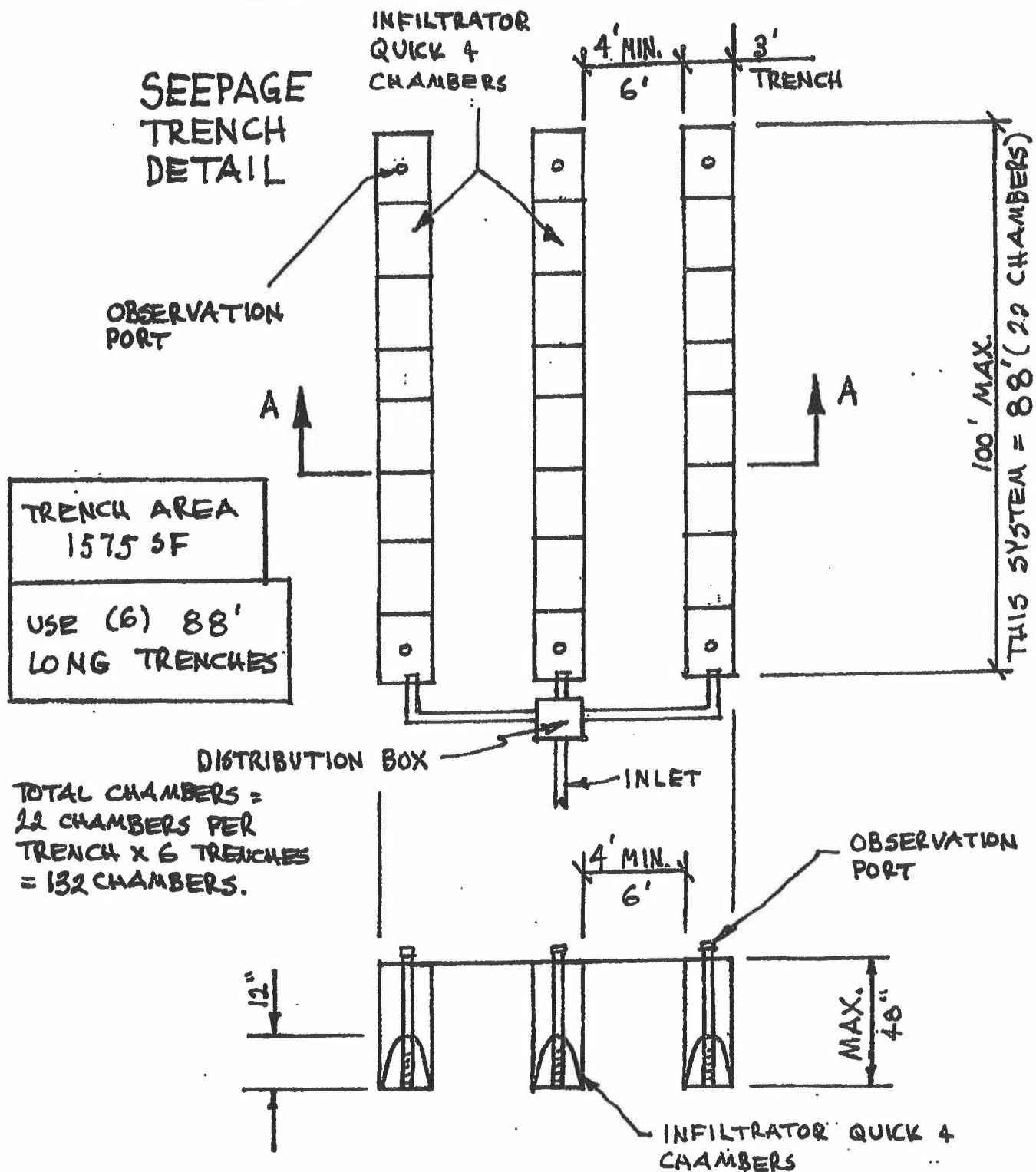


W.W. ENTERPRISES
P.O. Box 1242,
Limon, CO 80828

OWTS SYSTEM
LAYOUT PLAN
- TRENCH -

PROJECT NO.
24- 4028

PAGE 3 OF 5



SECTION A-A



W.W. ENTERPRISES
P.O. Box 1242,
Limon, CO 80828

OWTS STANDARD
ABSORPTION
TRENCH DESIGN

PROJECT NO.
24-4028
PAGE 4 OF 5

1. Bottom of surface of bed should be roughened before construction of bed and trenches to avoid having a penetration resistant interface between natural soil and fill.
2. Distribution pipes should be laid level. The pipes should be interconnected for beds.
3. A layer of straw or paper shall be used between the gravel and backfill. Four inches (4") of "pea" gravel may be substituted for the straw or paper. *NA for chambers.*
4. Backfill shall consist of natural on-site material. Heavy clays should not be used as back-fill. The upper four inches (4") shall be suitable soil for supporting vegetation.
5. Top of bed shall be side-sloped about two percent (2%) and promote positive drainage away from the bed. The maximum slope for any septic system is thirty percent (30%).
6. Surface of bed not usable under traffic areas, either animal or machinery. Vegetation over bed should be durable and tolerate both wet and dry periods.
7. Surface of bed and trenches should receive sunlight. Shade trees near system not recommended.
8. This system to meet all applicable *Avap* County Health Department Rules and Regulations set forth in the Individual Sewage Disposal System Regulations.
9. A representative of W. W. Enterprises and the *Avap* County Health Department should be contacted for inspection prior to placement of backfill. Inspections by the Engineer are an additional charge.



W.W. ENTERPRISES
P.O. Box 1242,
Limon, CO 80828

OWTS NOTES

PROJECT NO.
24 - 4028

PAGE 5 OF 5

APPENDIX I

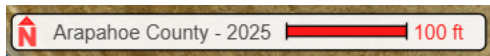
GENERAL MAINTENACE RECOMMENDATIONS FOR ONSITE WASTEWATER TREATMENT SYSTEMS (OWTS)

The following recommendations, if followed, should help increase the lifetime of the system:

1. Septic tanks should be pumped a minimum once every four (4) years.
2. Septic tanks and distribution boxes should be checked at least once a year for sludge accumulation which may clog the leach area if overflow occurs.
3. The leach area should not be used for grazing, sports activities, traffic, or other activity which may compact the soils.
4. Schedule 40 pipe should be used if lines are to be placed under driveways.
5. Trees should not be planted near the leach area so as to prevent roots from clogging the system.
6. If trees are to be planted nearby, they should be located so that the leach area is not shaded.
7. Overuse of strong chemicals, which may kill the bacteria in the system and inhibit decomposition of the sewage, should be avoided.
8. Positive drainage should be maintained over and around the absorption field area to prevent pooling of water.
9. Lines to the tank or leach area should have sufficient ground cover to prevent freezing.

REV. 09/30/14

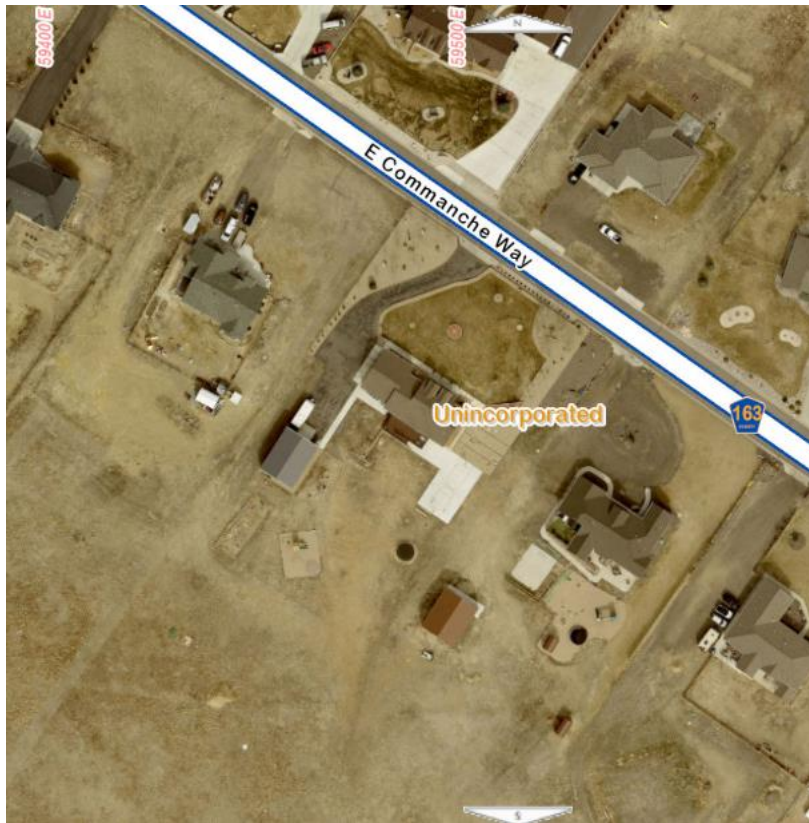
Map Legend for Arapamap source maps



Map 1a and 1b. Aerial Photo 2024 59508 E Commanche Way Source: Arapamap



Map 1b.



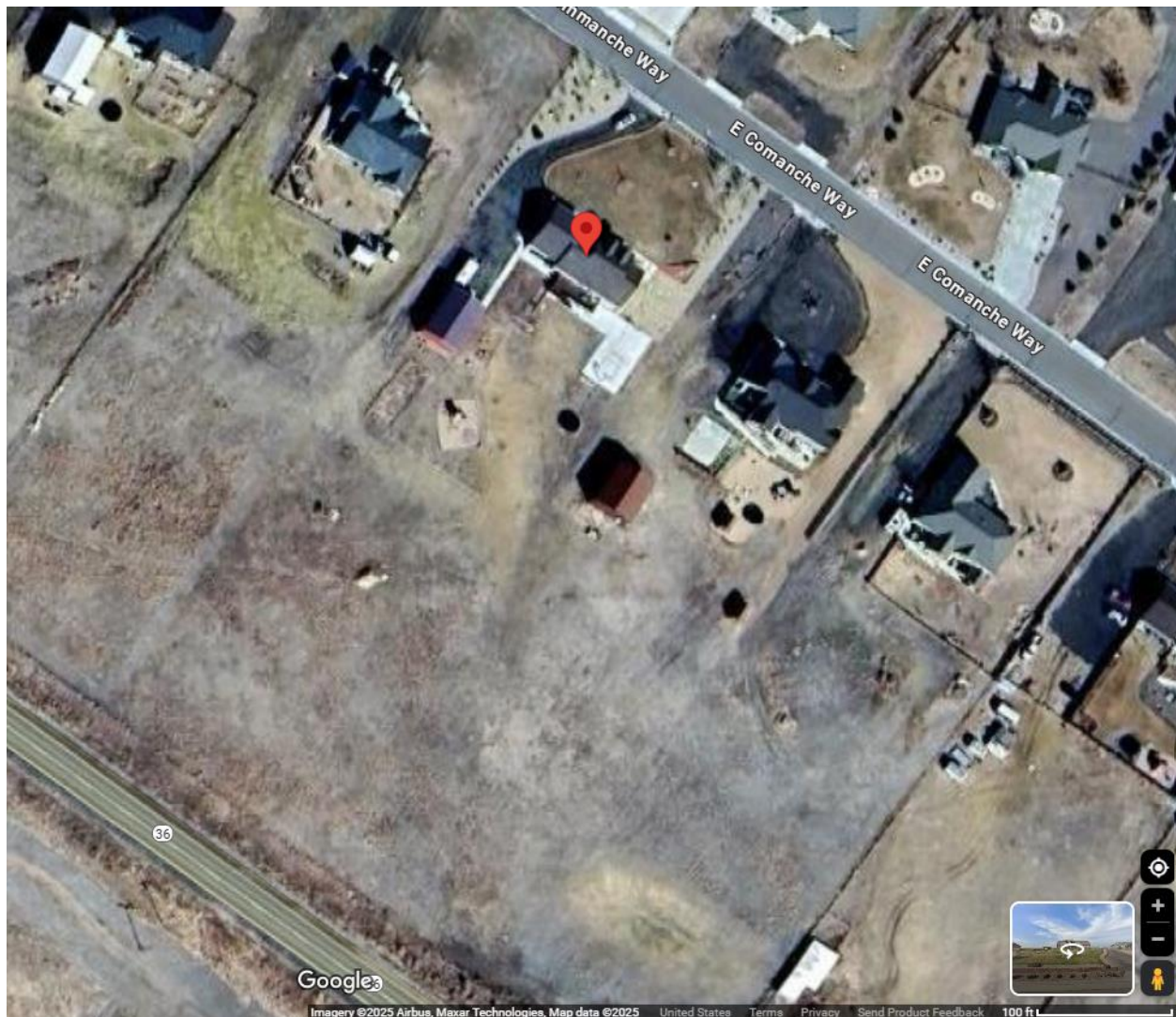
Map 2. Aerial Photo 2022 59508 E Commanche Way Source: Arapamap



Map 3: Aerial Photo 2024 with Contours 59508 E Commanche Way Source: Arapamap



Map 4. 2025 Aerial Photo 59508 E Comanche Way Source: Google Maps





59508 E Commanche Wy



6 foot distance between edge of concrete basketball court and property line per homeowner



6 foot distance between edge of concrete basketball court and property line per homeowner



View of east side of house looking uphill



View of test pit excavation areas



View of test pit excavation area



View of south west side of property



View of front of house from street



View of front yard from the driveway



View of front yard facing the house from the driveway



View of front yard facing the street from the driveway/front porch area



View of front yard facing the street from the driveway/front porch area



View of the ground in the front yard



View of inspection port per the homeowner



View of front yard



View of front yard near inspection port



View of front yard facing the house



View of edge of landscaping next to the street facing the house



View of ground in front yard and SE side of house facing SW towards cleanout and basketball court



View of SE side of house, landscaping, existing septic tank lid and basketball court facing SW



View of SE side of house, landscaping, existing septic tank lids and basketball court facing SW



View of SE side of house, landscaping, existing septic tank lid and basketball court facing SW



View of SE side of house, landscaping, existing septic tank lid and basketball court facing W



View of SE side of house, landscaping, existing septic tank lids, cleanout, and basketball court facing NW



View of SE side of house, landscaping, existing septic tank lids facing NW



View of SE side of house, landscaping, existing septic tank lids, and cleanout facing NW



View of front yard facing the street from SE side of house



View of front yard facing the street from porch



Arapahoe County

5334 South Prince Street
Littleton, CO 80120
303-795-4630
Relay Colorado 711

Board Summary Report

File #: 25-302

Agenda Date: 5/21/2025

Agenda #:

Deep Dive Agenda

USDA's Special Supplemental Nutrition Program for Women, Infants and Children (WIC) & the Breastfeeding Peer Counselor Program

- Program Overview
- Target Population
- Staff Overview
- Funding Overview
- Activities & Services
- CORE Metrics & Performance Indicators
- Equity-Focused Efforts
- CHIP Alignment
- Looking Ahead

Program Overview: What is WIC?

The Special Supplemental Nutrition Program for Women, Infants, and Children



One-on-One
Tailored
Nutrition
Counseling



Nutritious
Food



Breastfeeding
Support



Referrals to
Health &
Community
Services

= Healthy
Outcomes

Breastfeeding Peer Counselor Program

ACPH provides program services to Arapahoe and Douglas County WIC clients.

WIC breastfeeding peer counselors:

- Have specialized training to provide personalized breastfeeding support by text, phone, or email.
- Are available after hours, weekends, and holidays – 24/7 support.
- Can connect families with a breastfeeding expert or additional resources if needed.

2024 USDA WIC Premier Breastfeeding Award of Excellence!





Staff Overview

- 37 Staff with over 500 years of combined experience!
 - 19 of the staff speak another language
 - 29 FTE in WIC and 2.15 FTE in BFPC
 - Other staff/FTE are PH, SNAP or grant funded



Staff Roles

- WIC Director
- Nutrition Managers
- Special Projects Coordinator
- Administrative Coordinator
- WIC RD Supervisors
- Lead/Senior/WIC Educator
 - All See Caseload and Rotate on Reception
 - Serve other required roles of Breastfeeding Coordinator, Local Area Retail Coordinator, WIC Referral System
- Lead/Breastfeeding Peer Counselors

Staff Overview: Client Ratios

Staff to Client Ratio	State Recommendation or Best Practice	ACPH Client/Educator* Client/BFPC**	Number of staff needed to meet recommendation
Educator 20.75 FTE	400 – 500 clients/Educator	782	4-10 Educators
Registered Dietitian 5.75 FTE	1500-1800	2136	1 – 2.5 RDs
Breastfeeding Peer Counselor	744-1488	1381	On high end of ratio
*This <u>takes into account</u> reception time of staff needed to answer call center			
**Lead BFPC also assists with administrative duties of the program			

Funding Overview

- WIC is funded through CDPHE, USDA Federal Pass Thru Dollars; allocation determined by Congress every year
- CDPHE utilizes a funding formula to distribute funds; new with FY25
 - Base Grant 85% of Total: Average Monthly Enrollment by County
 - Cost Adjustment Factors 10% of Total
 - Population Density: 2.5%
 - % Non-English Speaking Clients: 3.5% (in excess of state average)
 - % High Risk Clients: 4% (in excess of state average)
 - Partnership Support 5% of Total
 - Churn Adjustment
- CDPHE did take on Language Line costs starting October 1 this year saving \$60,000+

Priority Population

- Must meet income eligibility or be adjunctively eligible
 - Medicaid
 - SNAP
 - TANF
- Anyone living in Colorado can go to any WIC clinic of their choosing
- Serve over **12,000** clients per month
- 3 clinics and 2 co-location sites
- 45% of our caseload speaks a language other than English
 - Over 42 languages spoken by our clients



Program Contract Requirements

- Provide nutrition services to COWIC enrolled participants
- Administer the program in defined service area
- Issue food benefits to eligible, enrolled participants
- Participate in Program Monitoring
- Provide local support for Vendor and Farmer Management
- Follow Standards and Requirements of the Program





Activities and Services

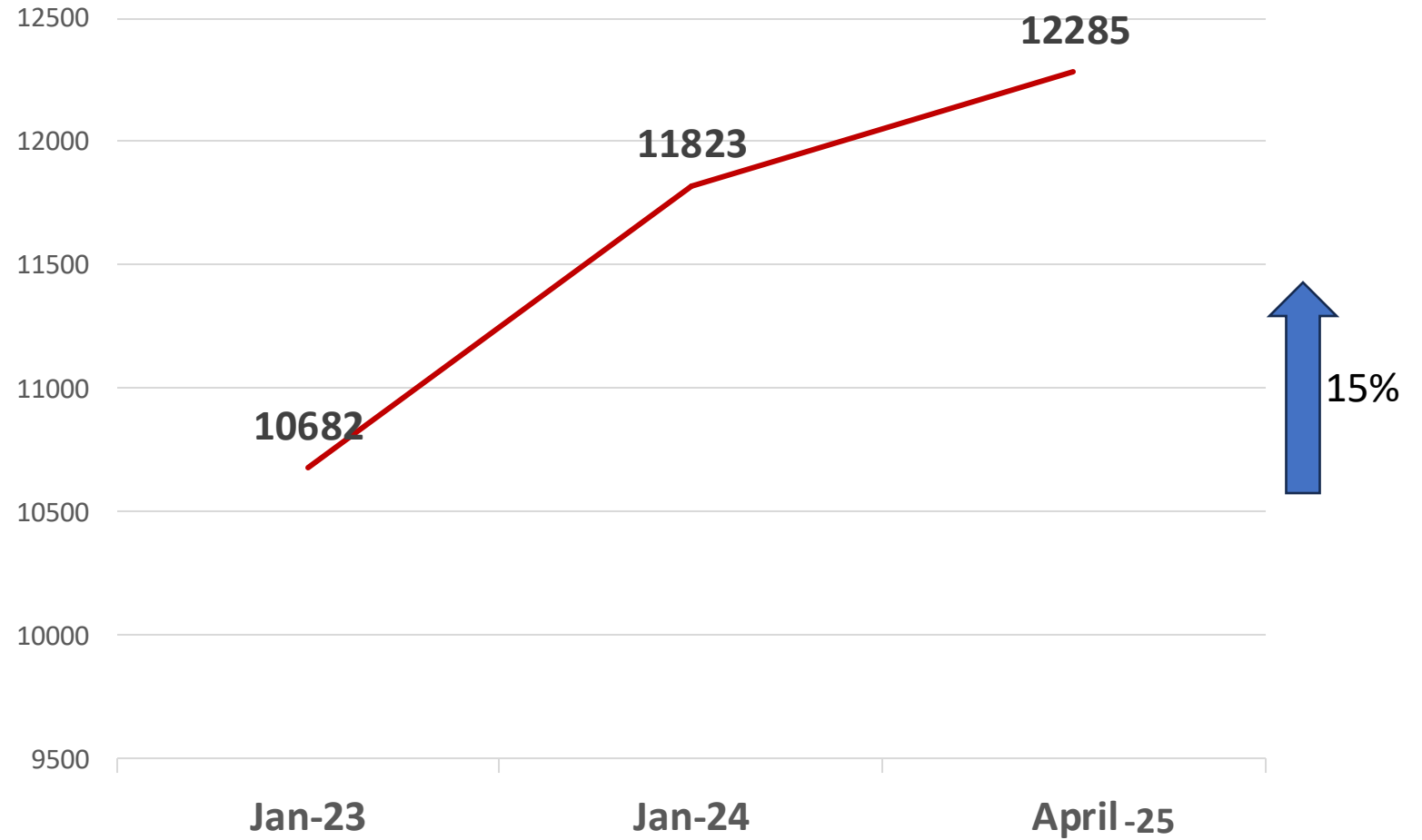
- Partnerships and collaborations
 - Baby Café USA, Baby & Me Tobacco Free Program Advisory Board, Backpack Society Advisory Board, Children's Hospital of Colorado Dietetic Internship Program, Colorado Breastfeeding Coalition, COWIC Breastfeeding Advisory Committee, Hospital Networking Visits, Mother's Milk Bank, Precious Child, Sheridan Health, Warm Connections
- Community engagement efforts
 - Children's Health Clinic, Grant Writing, Jewish Family Services, NFP Events, Shots for Tots, Village Exchange Center



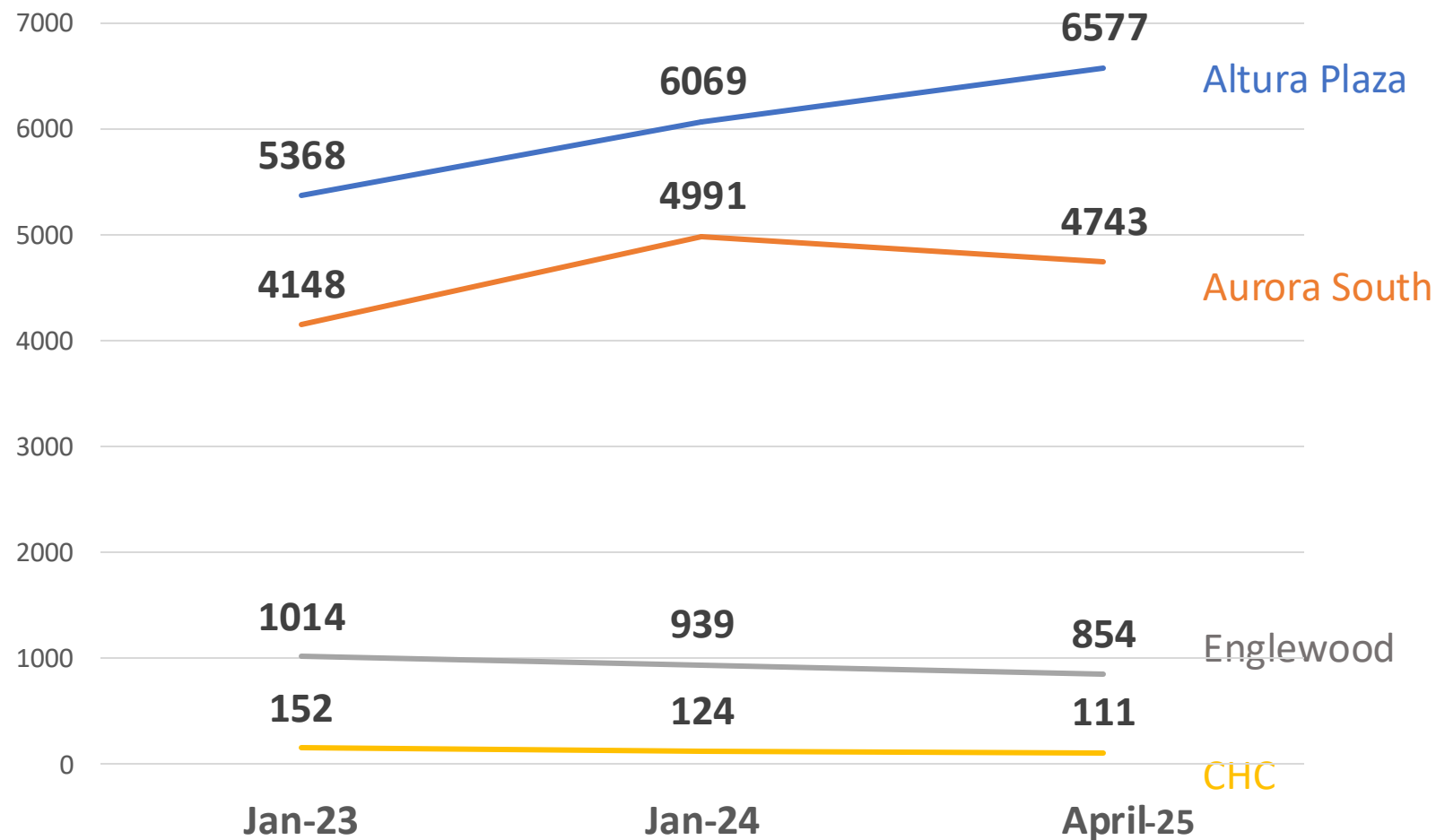
CORE Metrics & Performance Indicators



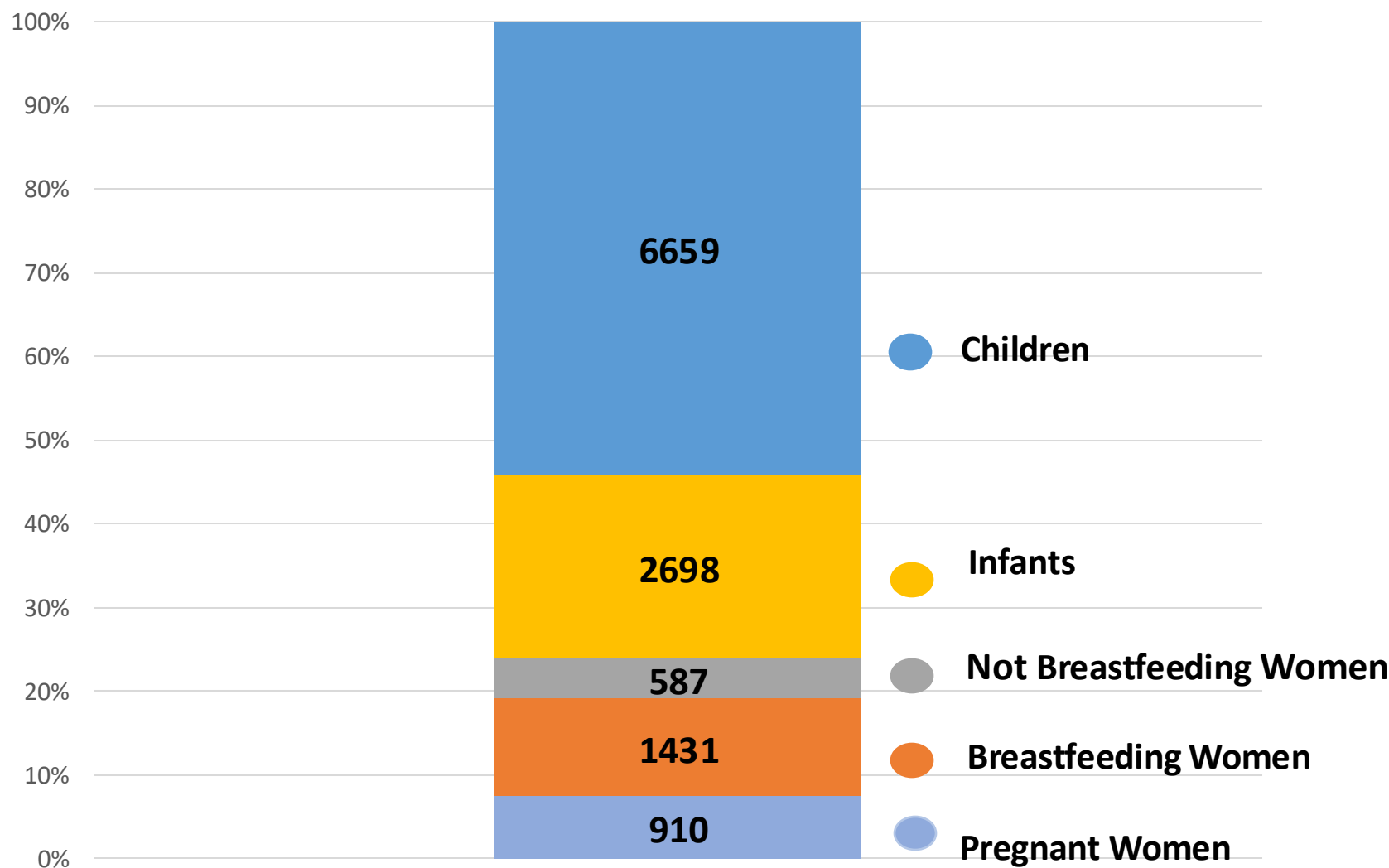
Enrolled WIC Participants (Caseload)



Enrolled WIC Participants by Clinic



Categories of Enrolled WIC Participants





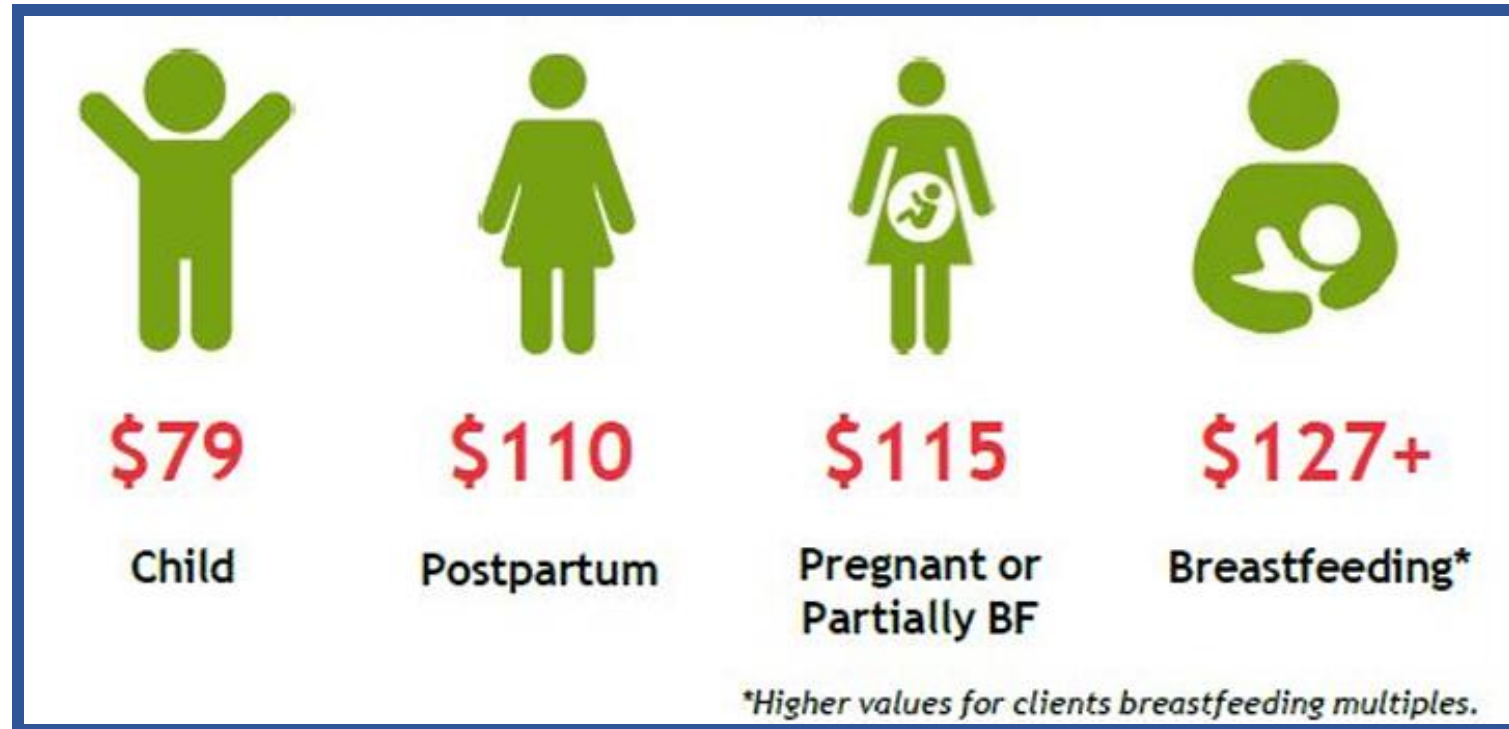
2024 Appointments and Calls

- WIC Appointments
 - **68,944** scheduled and **59,426** kept. Show Rate of **86%** (CO WIC Average is 83%)
 - Over **240** kept appointments per day
- Incoming Calls
 - **55,233** calls handled
 - **222** calls handled a day

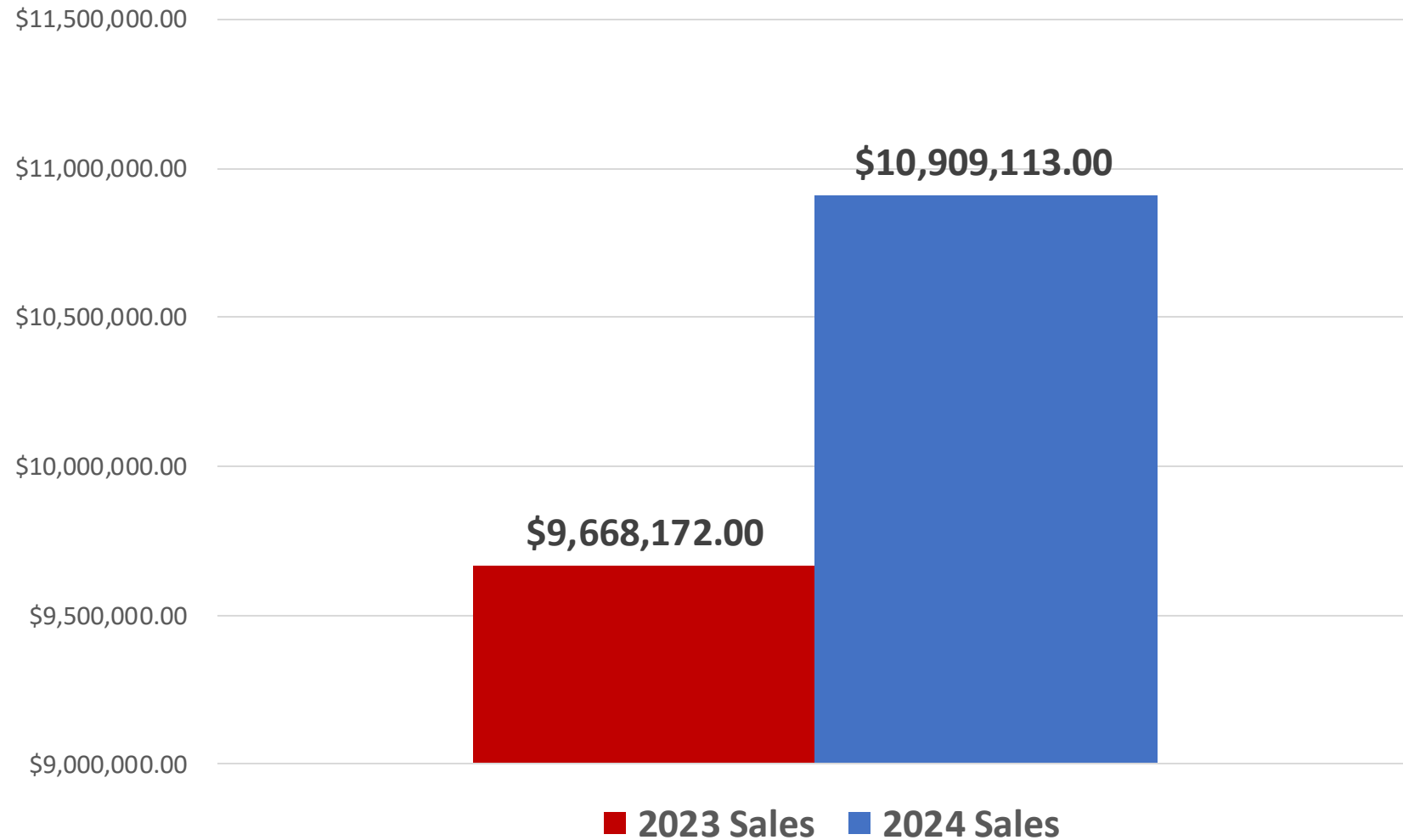


WIC Food Package Monthly Value

- The average dollar value of a WIC food package varies by participant type.
- Benefits for WIC households add up, for example:
 - Breastfeeding Mom \$127
 - 2 Year old \$79
 - 4 Year old \$79
 - Total \$285/month



Arapahoe County Authorized Grocery Store Sales



Breastfeeding Metrics

Breastfeeding Peer Counselor Program

- 2024 Total Contacts: **11,451**
- 2024 Average Monthly Caseload: **1,385**
 - 2024 Q4 Average: **1,459**

Increase in Initiation and Duration rates!

	2023	2024
Initiation	87%	87.5%
3-month Duration	59%	61.7%
6-month Duration	52%	54.7%
12-month Duration	37%	40%

Equity Focused Efforts

- Culturally responsive approaches and adaptations
 - Client Newsletters in English and Spanish (high open rate)
 - Pocket Talk
- Addressing barriers to food access and WIC participation
 - In person/phone appointment options
 - Baby Café
 - CHC and VEC co-locations
 - CSA Produce Boxes
 - Grocery Shopping Tours
 - JFS Mobile Food Pantries
 - Regional Breastfeeding Classes
 - SNAP PEAS program
 - WIC Health.org and Classes
- Success stories and lessons learned
 - *"The staff is wonderful. I've gotten a lot of the help I needed regarding that, and having a person who's not pushy, who asks the right questions and offers the right kind of help, has been great."*



Increasing Access: Cross Departmental Collaborations

- Human Services
 - Family Resource Navigators Referrals
 - SNAP Access
- Immunizations - Shots for Tots
- MOU with Nurse Liaison Program
 - Breast Pumps/Hand Pumps
- Nurse Family Partnership Advisory Board
- Nursing Division/Community Resources
 - RTD Bus Passes
- Sexual Health/NFP/NLP
 - Vitamin Angels





Looking Ahead

- Continued Innovations and funding opportunities to support staff and capacity
- Grant opportunities to build capacity
- New MIS System – hope to help with efficiencies
- Health First Colorado Lactation Service Benefit – billing for breastfeeding support services

Questions?

Contacts:

Jill jbonzynski@arapahogov.com

Kathleen krebollo@arapahogov.com





Arapahoe County

5334 South Prince Street
Littleton, CO 80120
303-795-4630
Relay Colorado 711

Board Summary Report

File #: 25-303

Agenda Date: 5/21/2025

Agenda #:



ARAPAHOE COUNTY

Public Health Move Update May 2025

Penny Grande, M.S., R.N.

Current Offices

- *Aurora South- Hampden and Chambers*
 - *WIC Services and Nurse Home Visiting*
- *Englewood- Broadway and Bellevue*
 - *Sexual Health Clinic, WIC Services, Immunizations, and Maternal and Child Health Team*
- *Altura Office- Colfax and Chambers*
 - *Largest public health client facing services office*
 - *WIC, Environmental Health, Sexual Health, Vital Records, Immunizations, and Harm Reduction*
- *Willow Office- I-25 and Orchard soon to be Lima*
 - *Administrative Office including Vital Records, Environmental Health, Nurse Family Partnership, The Partnerships, Planning, and Community Health Promotion Division, The Health Protection and Response Division, The Nursing Division, The Nutrition Division, The Executive Team, and The Finance and Administrative Division.*

Relocation Progress

- *Altura*
 - *Nursing Call Center consolidated to other areas of the building to allow space for Arapahoe Douglas Works (ADW) in order for more space at Lima*
 - *Immunization team moved to 3rd floor and Nurse Liaison Team moved to 2nd floor from Aurora South (complete- May 7th)*
- *Willow will move to Lima Plaza*
 - *Nurse Family Partnership moved to Aurora South (complete- May 17)*
 - *May 21-23rd remaining staff will check out*
- *Lima- Lima and Arapahoe Rd.*
 - *Health Protection and Response Lab- May 27th (Will remain available at Willow)*
 - *Vital records open- May 27th (Altura services)*
- *Auora South*
 - *Nurse Liaison Program relocated to Altura 2nd floor*
- *Englewood*
 - *Architecture firm has been hired to design to Arapahoe Plaza (APZ) 1610 Littleton Blvd. Staff involved in design elements and meetings. Construction subject to budget approval.*

Considerations

- *Communication Plan*
 - *Signage at Willow*
 - *Social Media and website*
 - *Email Signatures*
 - *Letters sent from programs*
 - *Google search and maps*
 - *AC Weekly and BOCC back pocket update*
- *Staff Support*
 - *Ongoing communication and clear expectations*
- *Vital Records (5/27-5/29/25)*
- *Health Protection and Response (HPR) Lab (5/27-5/29/25)*

Timeline

- *May*
 - *Final construction at Lima*
 - *Move out of Willow, furniture and IT equipment set up at Lima*
 - *HPR Lab set up and Vital Records open*
- *June*
 - *Final furniture set up and IT set up*
 - *Movers complete move*
 - ***First Day- June 13th!***
- *July-August*
 - *Decommission Willow and lease ends*
- *June-December*
 - *Continue to work with Facilities (FFM) and Architects to fine tune APZ space*
 - *Budget request submitted by FFM*

Questions?



Arapahoe County

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Board Summary Report

File #: 25-304

Agenda Date: 5/21/2025

Agenda #:

Public Health Director's Report
Prepared by: Jennifer Ludwig
Date Prepared: May 16, 2025
Dates Covered: April 11, 2025 – May 16, 2025

Mission Moment

Narcan training works! One of our division directors was on her way home from a sporting event when her son noticed someone curled up in the gutter. She pulled over and rushed to help the person, who was unresponsive and showing signs of possible overdose. Two other individuals came to assist, and one quickly ran into a nearby grocery store and grabbed Narcan while the other called 9-1-1. Having just gone through Narcan training, our division director knew how to administer the life-saving overdose reversal medication. When paramedics arrived and took over, they said the administration of Narcan saved the person's life. Thanks to our Community Health Nursing Division, an observant child, a trained public health professional and good teamwork, a life was saved.

A. Program Updates

Partnerships, Planning and Community Health Promotion

1) Community Event Participation

Community engagement events attended in the past month included but were not limited to:

- Sheridan Children's Day Celebration, April 25
- Jewish Family Services Mobile Food Pantry at Englewood ACPH, April 29
- Soccer City with Iron Sharp Foundation, May 10
- McGruff Family Safety Resource Fair with APD, May 14

Upcoming events and opportunities include but are not limited to:

- Eastern Arapahoe Senior Resource Fair at May Farms in Byers, May 19
- Jewish Family Services Mobile Food Pantry at Englewood ACPH, May 21
- Village Institute Cultural Festival in Aurora, May 31
- Compound for Compassion Youth Safe Zone events every Friday evening in June
- Colorado Access Maternal Health Resource Fair, June 7
- Town of Bennett Summer Event, June 13

Please reach out to [Grace Soulen](#) or visit the [Community Engagement Event Request Form](#) to join or suggest upcoming community outreach opportunities. ***These efforts align with the ACPH Community Health Improvement Plan (CHIP) objective to advance community engagement across CHIP priority areas.***

2) Community Safety

ACPH staff across multiple divisions participated in a one-day workshop hosted at the University of Colorado to enhance knowledge and skills for the practical application of evidence-informed approaches to preventing firearm-related harms. Hosted by the [Firearm Injury Prevention Initiative](#) at the University of Colorado Anschutz Medical Campus, the event served as a connection point for urban local public health agencies throughout the Front Range. Takeaways will be applied across

existing ACPH efforts. ***This initiative aligns with the ACPH Community Health Improvement Plan (CHIP) goal to advance Community Safety.***

3) Healthy Aging

- a. Following the April 18 release of Colorado's first draft [Multi-Sector Plan on Aging](#), members of the ACPH Healthy Aging Advisory Team gathered to discuss reflections, questions, and input to share as part of the statewide input period. Feedback will be reviewed with the ACPH Executive Leadership Team and submitted to help inform the final 10-year blueprint, which will officially launch in July. Developed by Kristine Burrows, Board of Health member and Colorado Department of Human Services Senior Specialist on Aging, the plan outlines goals and strategies for enhanced collaboration to meet the needs of older adults. The draft is [available for review](#) through May 30; Coloradans are invited to provide feedback using the following [online form](#).
- b. ACPH's Healthy Aging Coordinator, Melissa Smith, and Board of Health member Kristine Burrows have teamed up to plan a 90-minute interactive training on May 22 entitled Reframing Aging. At this in-person learning opportunity, led by Director Burrows, staff will learn to recognize and challenge stereotypes, reinforce the importance of diversity, and practice age-inclusive strategies that can be applied to Community Health Improvement Plan efforts and those across any public health program or service

These efforts align with the ACPH Community Health Improvement Plan (CHIP) objective to advance healthy aging.

Nutrition Division

1) WIC

- a. In April, WIC served 12,285 enrolled clients, with 5,172 completed appointments. To help meet the growing demand for WIC and ensure timely access to food benefits, staff continue to promote WICHealth.org, an online platform that allows participants to complete and receive nutrition education conveniently and quickly. This effort is working, we saw our highest monthly total yet, with 784 WICHealth.org appointments completed in April!

2) Grocery Shopping Tours for WIC Clients

- a. As part of the WIC Community Innovation and Outreach (CIAO) grant and partnership with Village Exchange Center, the first grocery store tour was hosted on April 26 at Ahorra Mucho. The grocery shopping experience for WIC foods can be overwhelming for clients trying to find the WIC approved food items, so a tour was created to help clients feel more confident shopping with their eWIC card. During the 45-minute tour, participants learn how to identify eligible foods, use the WICShopper app, learn how to fully utilize all their food benefits each month, and successfully check out using their eWIC card. WIC staff and VEC Cultural Navigators plan to tweak and modify the plan and the timing of tours to best meet our client needs. The grocery store tours will be provided once a month.

3) Call Center Pilot

- a. The WIC team along with Public Works and DMV are all part of the Contact Modernization Project to move from the Cisco Finesse platform. The WIC Program staff have been piloting the new call center, WebEx, during the first quarter of 2025 and went live on March 26. The WIC Program call centers handle 4,500 – 5,000 calls per month and we are excited to see what added functionality and reporting the new system can provide to improve program operations.

Community Health Nursing Division

1) Nurse Family Partnership

- a. **NFP Medicaid Billing Launch:** As part of contract requirements, ACPH Nurse-Family Partnership (NFP) program started billing Medicaid in Quarter 1 of this year. The launch followed months of planning with ACPH finance, Colorado Dept of Early Childhood (CDEC), Invest in Kids (IIK) and CHN division staff (Makena Slater and Hannah Holland) to establish a solid billing infrastructure, programmatic workflow and NFP specific training. NFP leadership, including Ann Stager and Holly Cheng, worked with ACPH Finance and CDEC to ensure revenue could be properly coded and held for use in the following fiscal year, as required by CDEC. On 1/27/25, a pilot group of six RNs from NFP's Documentation Committee were trained to bill Medicaid for approved preventive counseling services. Since that time, a total of \$4,633.90 has been collected from Medicaid. The program had initially planned to roll out Medicaid billing to the remaining 12 NFP RNs on April 1, 2025, but due to the office move, this is now planned for August 5, 2025. As such, increased Medicaid revenue is expected for NFP after Q3 2025.
- b. **NFP Spring Client Event:** This April, ACPH Nurse-Family Partnership partnered with Aurora Public Library to hold a very successful client event. Nineteen (19) clients and their children enjoyed spring crafts, socializing and three clients received one on one support in accessing WIC benefits. Photos below.

This initiative aligns with the ACPH Community Health Improvement Plan (CHIP) goal areas to improve access to nutritious and affordable food, access to physical health care, and increase social connection.

- c. **NFP Spring Staff Retreat:** NFP held a staff retreat in April, focusing on staff resilience and combating vicarious trauma. The program engaged the services of Mirador Counseling. Photos below.

2) Immunizations

- a. 966 Immunizations administered in the month of April.
- b. Colorado Department of Public Health and Environment has published immunization data by school and school district for the 2024-25 school year available [here](#). The Immunization Program utilizes this data to help target outreach for mobile school clinics.
- c. Received [NACCHO Promising Practice Award](#) for mobile clinic work. This national award honors and recognizes outstanding local public health practice and shares the outstanding practices through the Model Practices Database.
- d. Three staff completed the national gold standard training for interpretation – Bridging the Gap – with the Colorado Language Connection. Three more will complete the training in July. All six staff are qualified bilingual staff who have been tested through Arapahoe County for Spanish language proficiency. This training will increase both patient satisfaction and patient outcomes as demonstrated through robust evidence for clinical outcomes when utilizing trained, in-person interpreters.

These initiatives align with the ACPH Community Health Improvement Plan (CHIP) goal area to improve access to physical health care.

3) Sexual Health

- a. In partnership with Pueblo Department of Public Health and Environment, the Sexual Health clinic was awarded a **NACCHO Promising Practice Award** for Syphilis Field Delivered Treatment.

- b. On April 3, we started offering STI Testing and Treatment at the Arapahoe County Detention Center. Nurses will be at the jail every Tuesday to offer this service in partnership with Detention Center medical staff and Disease Intervention Specialists at CDPHE.
- c. Sexual Health Program is now offering naloxone in clinic and expanding and improving the screening and referral process for people who use substances with support from the Reproductive Health National Training Center.
- d. Completed training in conjunction with the Harm Reduction team to start offering rapid chlamydia and gonorrhea testing and same day treatment by a registered nurse on Prevention Point.

These initiatives align with the ACPH Community Health Improvement Plan (CHIP) goal area to improve access to physical health care.

4) Harm Reduction

- a. On April 9, had an extremely successful community event/pizza party at It Take a Village to celebrate expanded services and provision of safer smoking supplies. Many clients and community organizations attended, including CDPHE, Adams County Harm Reduction, Denver Department of Public Health and Environment, and Colorado Health Network.
- b. The program is in the process of developing new guidelines for first aid and wound infection prevention.
- c. Participating in a Systems Analysis and Improvement Approach (SAIA) initiative with the University of Washington to receive coaching and conduct a quality improvement project to improve rapid HIV testing services offered in the community.

These initiatives align with the ACPH Community Health Improvement Plan (CHIP) goal area to improve access to physical health care.

Health Protection and Response Division (*Environmental Health, Communicable Disease Epidemiology and Emergency Preparedness and Response Programs*)

1) Environmental Health (EH) Programs

- a. CDPHE PFAS Grant Update: Following previous updates regarding the PFAS grant managed by EH Water Quality Program staff, all of the four quarterly PFAS samples have been collected as the end of April, with results expected by mid-June. Public outreach efforts will begin mid-May and run through the end of June, in conjunction with several of the water districts and planned local community events. In addition to this grant related effort, EH Water Quality Program is communicating with CDPHE regarding locations in Arapahoe where fish flesh may be sampled for PFAS, possibly including Cherry Creek Reservoir.

2) Emergency Preparedness and Response (EPR)

- a. On April 16, the EPR Program participated in an Extreme Heat tabletop hosted by the North Central Region Healthcare Coalition and our partners at the National Weather Service in Boulder. This exercise provided an opportunity to gain an understanding of what heat related response plans exist within the region, determine how extreme heat impacts are currently managed, and to identify opportunities for ongoing planning. While no solutions are identified yet for this growing concern, the exercise was successful in identifying current challenges and identifying who should be engaged for ongoing efforts.

- b. On April 23, ACPH hosted the Cross-Jurisdictional Outbreak Coordination Workshop, facilitated by the EPR Program. This exercise brought Communicable Disease Epidemiology (CDE) and EPR partners from the 10 counties of the North Central Region as well as El Paso and Larimer Counties, and CDPHE together in one room. This discussion-based exercise focused on how LPHAs currently work together during cross-jurisdictional outbreaks using a measles scenario. The group identified processes for increased efficiency, opportunities to partner more effectively with CDPHE, and ways to formalize findings for future use and improvement. This exercise was deemed a success and similar engagement will be scheduled on a more routine basis for relationship building and enhanced coordination along the I-25 corridor.
- c. From April 28-May 1, 3 members of the EPR Program attended the annual NACCHO Preparedness Summit. The theme for this year's conference was *Pathways to Recovery in the Aftermath of Disasters* and included discussion regarding the role of public health in recovery, how to be a leader in the recovery phase of emergency management and operating in the evolving public health landscape. Lessons from various incidents including hurricanes, wildfires, floods, and outbreaks were shared by responders from across the country – providing valuable lessons learned and innovations in emergency preparedness and response with a wide range of international conference participants.

Finance and Administration, Executive Office

- 1) Members of the Finance and Admin and Executive Office have been instrumental in project managing the multiple moves. Penny, Camille, Joni, and Katie have been invaluable in planning, organizing, packing, instructing, and informing to make the moves as seamless and painless as possible.
- 2) The Commissioner's Office and County Finance have asked each department and office to prepare a presentation based on outcomes of the 1A Ballot Initiative discussion at the offsite retreat held in February 2025. The presentation considers budget needs in three categories: things we must do; things we should do; and things we could do. Public Health will present at a BOCC study session on May 20, 2025.

B. Communicable Disease Epidemiology Report

- a. Measles Update
 - i. As of 5/14/2025, 1,022 measles cases and 14 outbreaks have been reported in the United States. The number of newly reported cases nationwide is showing signs of slowing down with a peak at the end of March. This is the largest number of measles cases reported in the United States since 2019 (n=1,274) and prior to that in 1992 (n=2,200). There are 5 cases of measles reported in Colorado (Pueblo County - 1, Archuleta County - 1, Denver County – 3). The ACPH Communicable Disease Epidemiology (CDE) program continues to monitor the nationwide increase in cases for exposures and outbreaks. Program staff follow up with residents exposed to measles to provide post-exposure prophylaxis vaccines, quarantine guidance, and monitor for symptoms for 21 days following their exposure.
- b. Respiratory Season
 - i. Nationwide, current levels of emergency department visits for viral respiratory illnesses are decreasing across most areas of the country. The CDC has determined that the highest hospital demand for COVID-19, flu, and RSV to date for the 2024-

2025 season occurred in February 2025, and it was lower than the peak demand from last season. The peak hospital demand due to COVID-19 during this fall and winter respiratory season was lower than all previous seasons, and nearly 50% lower than the peak demand last season.

ii. Influenza

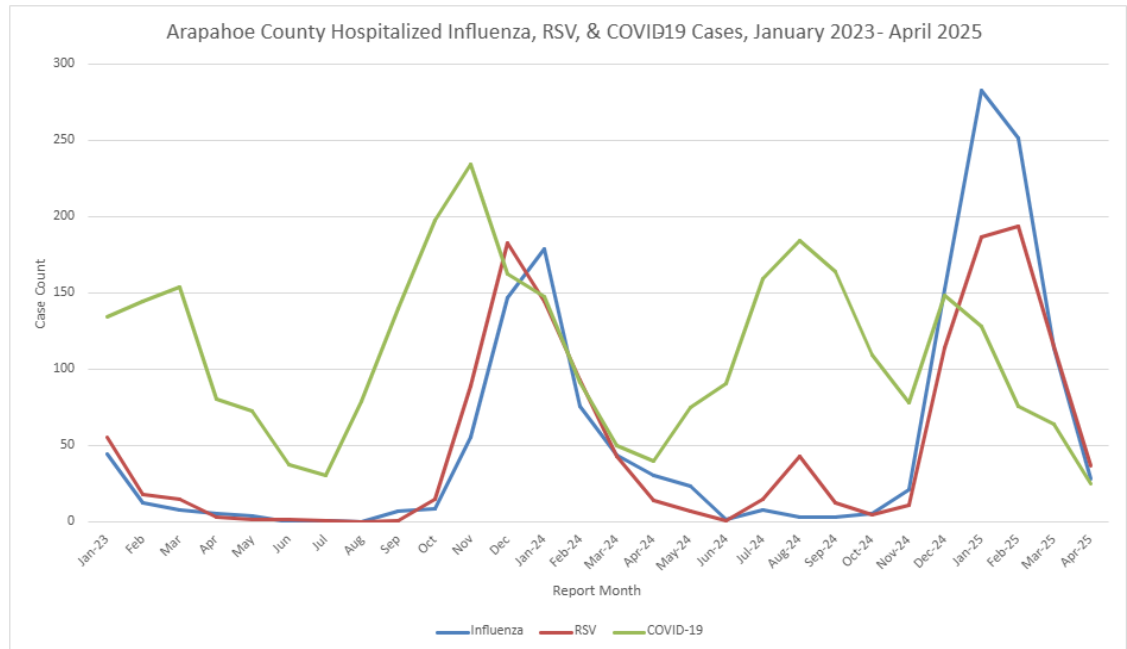
1. Surveillance for the 2023-2024 influenza season officially began on October 1, 2024. Statewide influenza hospitalizations have been declining since mid-February. Arapahoe County influenza hospitalizations peaked in January followed by a continued decline. The number of influenza-associated hospitalizations was higher than the previous two seasons. There have been 29 influenza outbreaks reported and managed in Arapahoe County since October 1, 2024. In regard to influenza vaccine effectiveness, the Morbidity and Mortality Weekly Report (MMWR) [interim estimates of the seasonal influenza vaccine effectiveness](#) was released on February 27, 2025. Analysis of data from four vaccine effectiveness (VE) networks estimated interim pediatric influenza VE was 32% - 60% in outpatient settings and 63%–78% against influenza-associated hospitalization. Interim adult influenza VE was 36%–54% in outpatient settings and 41%–55% against influenza-associated hospitalization. These data indicate that the 2024-25 seasonal influenza vaccine is effective at reducing the risk of influenza-associated outpatient visits and hospitalizations.

iii. RSV

1. Surveillance for the 2024-2025 RSV season officially began on October 1, 2024. Statewide RSV hospitalizations appear to be decreasing since the end of February. RSV hospitalizations in Arapahoe County also peaked in February and have continued to decline. There have been 11 RSV outbreaks reported and managed in Arapahoe County since October 1, 2024.

iv. COVID-19

1. Since COVID-19 does not appear to follow the same seasonal pattern as influenza and RSV, COVID-19-associated hospitalizations are monitored year-round. Statewide COVID-19 hospitalizations appear to have peaked in early January. COVID-19 hospitalizations in Arapahoe County peaked in December and have continued to decline. However, increases in COVID-19 are commonly seen in summer and rates of hospitalizations are often equal or higher than rates seen in fall/winter. There have been 29 COVID-19 outbreaks reported and managed in Arapahoe County since October 1, 2024.



c. Rabies Season

- i. Rabies is a preventable disease spread through direct contact, such as a bite or scratch, with the saliva or brain/nervous system tissue of an animal that is sick with rabies. Most rabies cases are found in wild animals like raccoons, skunks, bats, foxes, and coyotes. Rabies is regularly found in Colorado wildlife. While reports of rabid animals can occur throughout the year, the majority of reports occur between March and September. In 2024, 58 animals (56 bats; 2 dogs) tested positive for rabies in Colorado, including three bats and one dog in Arapahoe County. As of 5/14/2025, one rabies positive bat has been reported in Colorado ([Weld County](#)).
- ii. The Communicable Disease Epidemiology Program conducts in-depth rabies risk exposure assessments for humans and domestic animals following an encounter with wildlife. If a wild animal is unable to be tested for rabies following an encounter with a human, rabies post-exposure prophylaxis (PEP) vaccinations may be recommended to prevent possible infection.
- iii. In preparation for the 2025 summer season, the Communicable Disease Epidemiology Program, Environmental Health Program, and the Emergency Preparedness and Response Program are partnering with Communications to launch a summer-long safety campaign covering topics such as rabies, West Nile virus, plague, extreme heat, and more. The campaign will feature content on social media ([Facebook](#) and [X](#)) as well as in the [County Line newsletter](#). We also included information on the website about [10 Ways to Prevent Rabies and Other Diseases this Spring and Summer](#) in an effort to share as much preventive education with the public as possible. On April 2, 2025, the Communicable Disease Epidemiology and Environmental Health Programs hosted a rabies training with animal control officers within Arapahoe County to include education on rabies, rabies reservoir species, animal quarantine and testing, and collaboration for how public health and animal control work closely to protect residents and their pets.

Photos from NFP 2025 Spring Client Event



Photos from NFP Staff Retreat

