

ON-SITE WASTEWATER TREATMENT SYSTEM INSPECTION FORM

ON-SITE ID: ON0036121

P

APN # 5227002009

DATE: 10/5/2015

APPROVED YES NO

Environmental Health Specialist: Neil Mayes

Address: 9910 Tomahawk Trl, Colorado Springs CO 80908

Owner: Colton Johnson

Residence: #Bedrooms: 4 Commercial: System Installer: Property Owner

SEPTIC TANK: Construction Material Concrete

Capacity Gallon Existing 1500

SOIL TREATMENT AREA:

Trench: Depth (Range): 18"-31" Width: 3.5' Total Length: 56 Sq. Ft.: 588

Bed: Depth (Range): Width: Total Length: Sq. Ft.:

Depth of Rock: 12" Under PVC: 6" Type of cover on Rock: Filter fabric

SEEPAGE PITS: # of Pits: Working Depth #1: #2: Size (L x W) #1 #2 Total Sq. Ft.

CHAMBER SYSTEMS:

Type of Chamber: #Chambers: Sq. Ft./Chamber: Bed: Trench: Depth (Range):

Sq. Ft. Required (10-1): Sq. Ft. Required (10-2): Sq. Ft. Required (10-3): Sq. Ft. Required for Diverter Valve: 525

Sq. Ft. Installed:

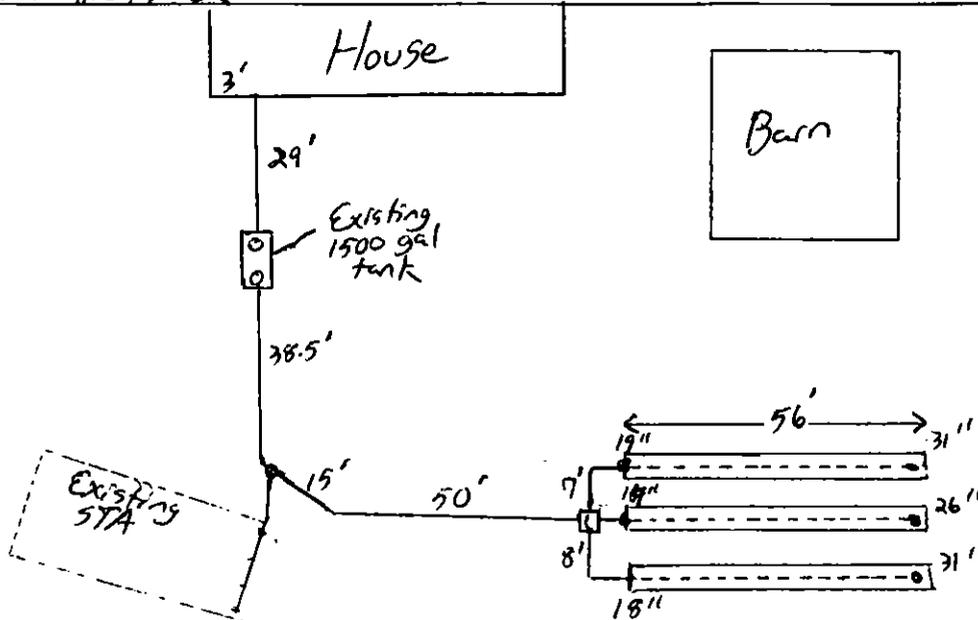
Engineer Design: Y N Engineering Firm: Approval Letter Provided: Y N

Well installed at time of OWTS inspection: Y N Public Water: Y N

*Approval will be revoked if in the future the well is found to be within 50 feet of the septic tank and/or 100 feet of the soil treatment area.

Notes:

STA = Soil Treatment Area



Notify Environmental Health of any change of ownership, type of business activity, business name, or billing address by calling (719) 578-3199. Failure to notify Environmental Health may result in late penalties, Permit/License denial or revocation, and business closure. PERMITS/LICENSES TO OPERATE AND ANNUAL FEE PAYMENTS ARE NOT TRANSFERABLE. Permits become void on change of ownership. New owners must apply and pay for a new Permit(s)/License(s) prior to beginning operation.

Attn: COLTON JOHNSON
9910 TOMAHAWK TRL
COLORADO SPRINGS, CO 80908



**EL PASO COUNTY PUBLIC HEALTH
ENVIRONMENTAL HEALTH DIVISION**
1675 W. GARDEN OF THE GODS ROAD, SUITE 2044
COLORADO SPRINGS, CO 80907
PHONE: (719) 578-3199 FAX: (719) 578-3188
www.elpasocountyhealth.org

MAJOR REPAIR PERMIT - OWTS

Valid From 7/31/2015 To 7/31/2016

PERMITEE :

**COLTON JOHNSON
9910 TOMAHAWK TRL
COLORADO SPRINGS, CO 80908**

Onsite ID: ON0036121

Tax Schedule # : 5227002009

Permit Issue Date: 07/31/2015

Dwelling Type: RESIDENTIAL

OWNER NAME :

COLTON JOHNSON

of Bedrooms (if Res): 4

Proposed Use (if Comm):

Designed Gallons/Day:

Water Source: PRIVATE WELL

System Installation Requirements:

- Due to encountering type 4A soil, the installation shall be no deeper than 31 inches and no reduction will be given.

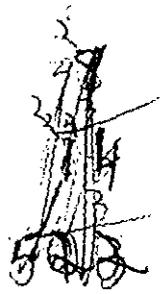
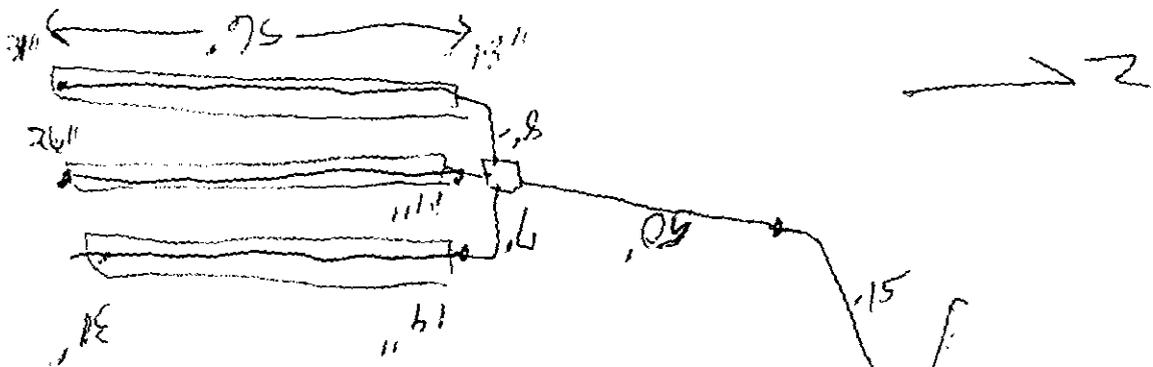
The OWTS must be installed per the stamped and approved Design Document dated 07/31/2015.

This permit is issued in accordance with 25-10-106 Colorado Revised Statutes. The PERMIT EXPIRES upon completion/installation of the Onsite Wastewater Treatment System, or at the end of twelve (12) months from date of issue, whichever occurs first. If both a Building Permit and an Onsite Wastewater Treatment System Permit are issued for the same property and construction has not commenced prior to the expiration date of the Building Permit, the Onsite Wastewater Permit shall expire at the same time as the Building Permit. This permit is revocable if all stated requirements are not met. The Onsite Wastewater Treatment System must be installed by an El Paso County Licensed System Contractor, or the property owner.

The Health Officer shall assume no responsibility in case of failure or inadequacy of an Onsite Wastewater Treatment System, beyond consulting in good faith with the property owner or representative. Access to the property shall be authorized at reasonable time for the purpose of making such inspections as are necessary to determine compliance with the requirements of this law (permit).

**Inspection request line: Call (719) 575-8699 before 8:30 a.m. of the day that the inspection is requested
Weekends & Holidays excluded.**

Authorized By: Environmental Health Specialist



5"

3.5

609



504
580
1082

530002796 A30006793

APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT

NEW PERMIT MAJOR REPAIR PERMIT MINOR REPAIR PERMIT

Owner Colton Johnson Daytime Phone 719-650-6016

System Installer Colton Johnson Daytime Phone "

Property Address 9910 Tomahawk Trail City and Zip Colo. Spgs CO 80908

Legal Description Lot 9 Block 1 Indian Wells Sub Fil. No 1 El Paso County CO

Owners Mailing Address 9910 Tomahawk Trail

Email Address Doatrn@msn.com Fax # _____

Tax Schedule # 52270-02-009 Lot Size 5.4 Acres

Site Located Inside City Limits Yes No Primary Contact Owner Contractor

Proposed Use: Single Family Multi-Family Commercial

Water Supply: Well Cistern Municipal Number of Bedrooms 4

Pick up: Fax: Email:

CURRENT FEES AS APPROVED BY THE EI PASO COUNTY BOARD OF HEALTH

New Permit: \$650.00 (EPCPH Charge) + \$147.00 (EPC Planning Dept. Surcharge) + \$23.00 (CDPHE Surcharge) = \$820.00

Major Repair Permit: \$515.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$538.00

Minor Repair Permit: \$230.00 (EPCPH Charge) + \$23.00 (CDPHE Surcharge) = \$253.00

- All Payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC)
- This permit will expire one year from the date of issuance.

I certify that the information provided on this application is in compliance with Section 8.3, Chapter 8 of the Onsite Wastewater System (OWS) Regulations of the El Paso County Board of Health. I also authorize the assigned representative of El Paso County Public Health to enter onto this property in order to obtain information necessary for the issuance of a permit.

Applicants Signature: [Signature] Date: 5/15/15

Site Insp. Date: 5/18/15 Perc. Rate: LTAR=0.50 Permit # 000036121

E.H.S. Review Notes: _____

Date to: E.P.C. Development Services N/A Flood Plain and Enumerations N/A

Permit Requirements: _____

1500 g Min. Septic Tank Capacity 525 Min. Absorption Area

E.H. Specialist Neil Marx Date 7/31/15 Approved Denied

Neil Marx



ON003621 E
5227002009
10/5/15

6825 Silver Ponds Heights #101
Colorado Springs, CO 80908
(719) 481-4560

PROFILE PIT EVALUATION

FOR

COLTON JOHNSON

JOB #15-0363

Lot #9, Block 1
Indian Wells Subdivision,
9910 Tomahawk Trail,
El Paso County,
Colorado

Respectfully submitted,

Gabriel R. Rick, P.E.



PROFILE PIT LOG - Profile Pit #2

JOB#: 15-0363
 DATE EVALUATED: 18 May 2015
 EQUIPMENT USED: MINI-EXCAVATOR

DEPTH (In ft.)	SYMBOL	SAMPLES	WATER %	SOIL TYPE
0"-5"				2A
5"-40"				2A
40"-79"				4A
79"-8'				4A

0"-5" TOPSOIL
 Loam
 Organic Composition

5"-40" Sandy Loam
 Fine - Coarse Grained
 High Density
 Low Moisture Content
 Low Clay Content
 Low Cohesion
 Low Plasticity
 Brownish Yellow Color
 10YR 6/6

USDA Soil Type: 2A
 USDA Soil Texture: Sandy Loam
 USDA Structure Shape: Granular
 USDA Structure Grade: 1
 Cementation Class: Non-Cemented
 Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50

40"-79" Gravelly Sandy Loam
 Fine - Very Coarse Grained
 High Density
 Low Moisture Content
 Low - Moderate Clay Content
 Low - Moderate Cohesion
 Low - Moderate Plasticity
 Olive Color
 5Y 5/4

USDA Soil Type: 2A
 USDA Soil Texture: Gravelly Sandy Loam
 USDA Structure Shape: Granular
 USDA Structure Grade: 1
 Cementation Class: Non-Cemented
 Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.50
 Special Condition: Dawson Arkose

79"-8' Fine Sandy Clay
 Very Fine - Fine Grained
 Very High Density
 Low Moisture Content
 Very High Clay Content
 Very High Cohesion
 Very High Plasticity
 Olive Color
 5Y 4/3

USDA Soil Type: 4A
 USDA Soil Texture: Fine Sandy Clay
 USDA Structure Shape: None
 USDA Structure Grade: Massive
 Cementation Class: Non-Cemented
 Long Term Acceptance Rate (LTAR, Treatment Level 1): 0.15
 Special Condition: Redox Throughout

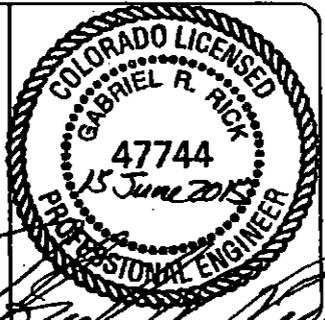
LTAR to be Used for On-site Wastewater Treatment System (OWTS) Sizing: 0.50 (Treatment Level 1, No Reduction)
Depth to Groundwater (Permanent or Seasonal): 79" - 8'
Depth to Bedrock and Type: None Encountered
Depth to Proposed Infiltrative Surface from Ground Surface: Install No Deeper than 31" or Engineer Design Required)
Soil Treatment Area Slope and Direction: N. 56° W. ~ 14%

Note: See El Paso County Board of Health Regulation Chapter 8: On-Site Wastewater Treatments Systems (OWTS) Regulations for Additional Information. Refer to Table 10-1 for Corresponding LTAR if Treatment Level 2, 2N, 3, or 3N will be Implemented in the Design of the OWTS. System Sizing Depends on a Number of Factors (i.e. LTAR, # of Bedrooms, Type of Soil Treatment Area (STA), Method of Transfer to the STA (Gravity, Dosed, or Pressure Dosed), and Type of Storage / Distribution Media Used in the STA)

Project: 15-0363	Project Name and Address Colton Johnson 9910 Tomahawk Trail Lot #9, Block #1, Indian Wells Subdivision Sch. No. 5227002009 El Paso County, Colorado
Sheet: 2 of 2	
Date: 12 June 2015	
Scale: 1/4" = 1'	
Drawn by: lgs	
Checked by: gr	

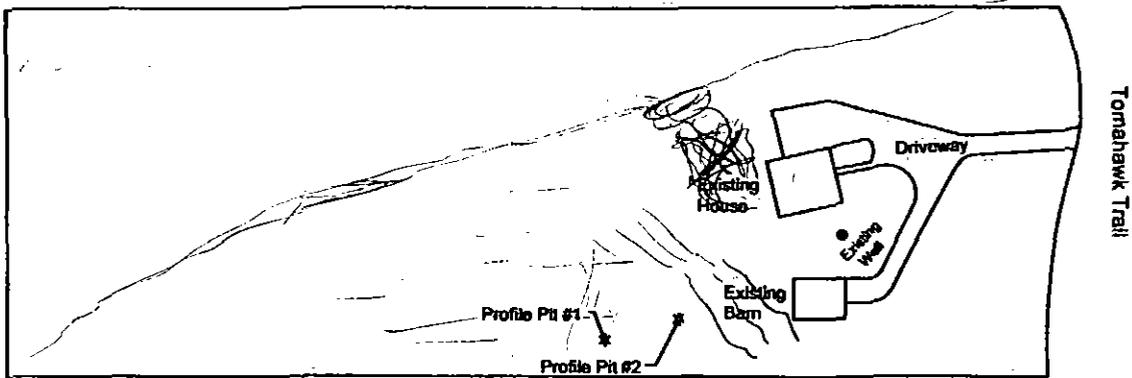
GEOQUEST, LLC.
 6825 SILVER PONDS HEIGHTS
 SUITE 101
 COLORADO SPRINGS, CO
 80908

OFFICE: (719) 481-4560
 FAX: (719) 481-9204



[Handwritten Signature]

SITE MAP
Lot #9, Block #1,
Indian Wells Subdivision,
9910 Tomahawk Trail,
Sch. No. 5227002009
El Paso County,
Colorado
Job #15-0363



0 25 50 75 100 125 150
GRAPHIC SCALE IN FEET
SCALE: 1" = 150'

*Indicates Geoquest, LLC. Profile Pit Test Locations
Location from Southwest House Corner to Profile Pit #2: S. 45° W. - 111'
Location from Profile Pit #2 to Profile Pit #1: S. 74° W. - 60'
Location from Southwest House Corner to Well: S. 74° E. - 51'
GPS Coordinates Profile Pit #1: N. 38° 58' 33.6", W. 104° 38' 59.9"
GPS Coordinates Profile Pit #2: N. 38° 58' 33.5", W. 104° 38' 59.1"

Soil Profile #2:

- 0 to 5" - Topsoil- loam, organic composition.
- 5" to 40" - USDA soil texture sandy loam, soil type 2A, structure shape GR, structure grade 1, non-cemented, LTAR 0.50, brownish yellow in color 10 YR 6/6.
- 40" to 79" - USDA soil texture gravely sandy loam, soil type 2A, structure shape GR, structure grade 1, non-cemented, LTAR 0.50, olive in color 5 Y 5/4, Dawson Arkose.
- 79" to 8' - USDA soil texture fine sandy clay, soil type 4A, structure shape none, structure grade massive, non-cemented, LTAR 0.15, olive in color 5 Y 4/3, redoximorphic throughout.

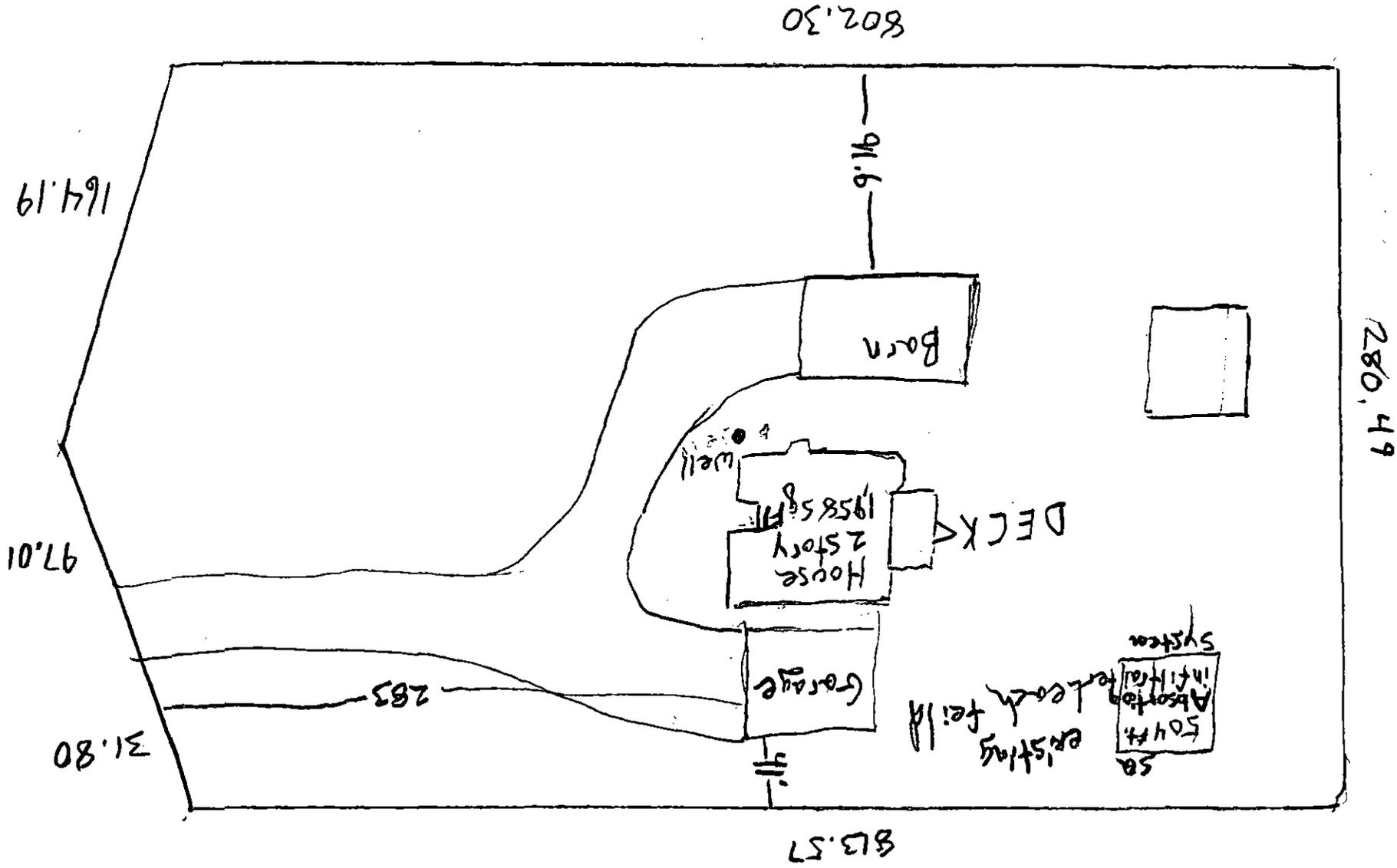
Evidence of perched ground water at the depth of 79" to 8' was encountered during the inspection. Bedrock was not encountered during the inspection. No known wells were observed within 100 feet of the proposed system. All setbacks shall conform to county regulations.

The septic system to be installed in the area of Profile Pit #2 need not be designed by a Colorado Licensed Engineer. Based on the observed conditions, we feel a design based on an LTAR of 0.50 is reasonable, the installation shall be no deeper than 31 inches and no reduction shall be allowed to be taken. If the system is installed deeper than 31" or if USDA soil 4A is encountered, this office must be notified and an Engineered Design System will be required. The septic system to be installed on this site need not be designed by a Colorado Licensed Engineer.

If during construction of the field itself, USDA 4A material is encountered or subsurface conditions change considerably or if the location of the proposed field changes, this office shall be notified to determine whether the conditions are adequate for the system as designed or whether a new system needs to be designed.

Weather conditions at the time of the test consisted of overcast skies, with cold temperatures.

North
↓





Prevent • Promote • Protect

Environmental Health Division

1675 W. Garden of the Gods Rd., Suite 2044
Colorado Springs, CO 80907
(719) 578-3199 *phone*
(719) 575-8664 *fax*
www.elpasocountyhealth.org

**CONVENTIONAL (NON-ENGINEERED)
ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) DESIGN WORKSHEET
(MUST BE COMPLETED FOR ALL CONVENTIONAL DESIGNS)**

Wastewater Flow

Total number of bedrooms:	<u>4</u>
Design wastewater flow (gallons/day) from Table 6-1:	<u>525</u>

Septic Tank

Septic tank size (in gallons) from Table 9-1:	<u>1500 existing</u>
Tank burial depth (from top of tank, in inches) <i>(NOTE: Shall not exceed 48 inch depth by regulation)</i>	<u>N/A</u>
Will groundwater affect tank?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Will an effluent screen be installed?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<i>(Note: Effluent screens are required for all new systems or replacement of the septic tank)</i>	

Soil Treatment Area (STA)

Long Term Acceptance Rate (LTAR) From Table 10-1:	<u>0.50</u>
Unadjusted STA size (see 8.10.C.4) – show calculation: Design flow (gallons per day) LTAR (gallons/day/sq.ft.) =	<u>525 = 1050 / 2 = 525 sq ft</u> <u>0.50</u>
Depth of STA (cannot exceed 48"):	<u>El in 31"</u>
Trenches are preferred. If bed system is selected, the selection reason must be specified:	
Type of STA (check which applies): <input checked="" type="checkbox"/> Trench <input type="checkbox"/> Bed	FOR REPAIRS ONLY (check which applies): <input type="checkbox"/> Wide Bed (more than 12 feet wide) <input type="checkbox"/> Deep Gravel Trenches <input type="checkbox"/> Seepage Pit <input type="checkbox"/> None of the Above

Method of Septic Tank Effluent Application (check which applies):

- Gravity
- Pump to gravity
- Dispersed by siphon

Type of Distribution Media (check which applies):

- Rock
- Tire chips
- Chambers
- Other _____ Other type _____

Adjusted STA size, using factors from Table 10-2 & 10-3 (show calculation, with adjustment factors utilized):

525 sq ft

A scale drawing shall be provided with each design document (see attached example design documents), showing:

- Layout of entire OWTS, including the STA configuration (trench, bed, etc.)
- Dimensions of the trench(s) or the bed(s)
- Location of all OWTS components and distances to all applicable physical features in Table 7-1
- Depths of all components (or elevations relative to a designated benchmark)
- Location of the soil profile test pit excavation(s), or percolation test holes, if required
- Location of the alternate STA site
- North direction arrow
- Graphic scale (1" = 20', 1" = 30', etc.)
- Contours, OR slope direction and % slope

Note: It is recommended that the design document is completed by a professional in the OWTS industry. EPCPH does not complete, or alter design documents. Contact EPCPH with any questions.

The proposed STA sites must be protected from disturbance, compaction, or other damage by staking, fencing, posting or other effective methods.

Certification

Signature _____

Colton Johnson

Print Name _____

7-31-2015

Date _____

9910 Tomahawk Tr.

Property Address _____

Company Name _____

9910 Tomahawk Tr

Address _____

719-650-6016

Phone _____

Dojtrn@aol.com

Email _____

(See attached Tables and Design Document examples)

EL PASO COUNTY DEPARTMENT OF HEALTH AND ENVIRONMENT
 INDIVIDUAL SEWAGE DISPOSAL SYSTEM INSPECTION FORM

Permit # 9564
 Date 1/14/94

(P) 88

APPROVED: YES NO APN 5287002009 ENVIRONMENTALIST McLARRY

Address 9910 TOMAHAWK TRAIL Owner MARK COURT

Legal Description LOT 9, Blk 1 ON0036121
 Residence , # of bedrooms 4; Commercial ; System Installer LUNAN

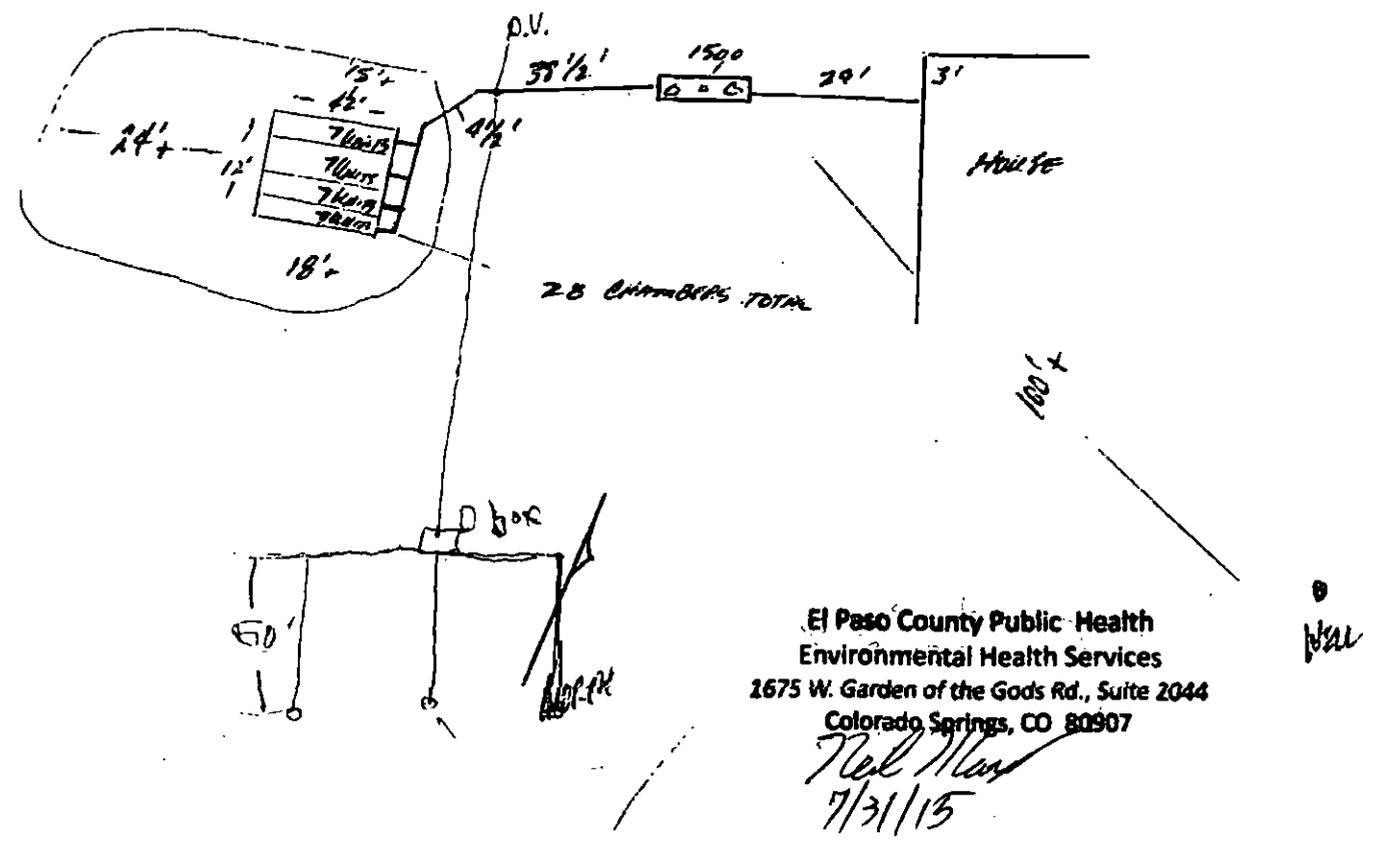
SEPTIC TANK:
 Commercial ; Noncommercial , L , W , WD
 Construction Material CONCRETE, capacity 1500 gallons.

DISPOSAL FIELD:
Rock Systems:
 Trench: depth , width , total length , sq. feet
 Bed: depth , length , width , sq. feet
 Rock type , depth , under PVC , over PVC
 Seepage Pits: # of pits , total # of rings , working depth(s)
 size of pit(s) L X W , lining material , total sq. feet

Rockless Systems:
 Chamber: Type INTEGRATOR, number of chambers 28, bed , trench
 sq. ft./section 18, reduction allowed 40%, sq. ft. required 450
 total sq. ft. installed 504, depth of installation SEE DESIGN

Engineer Design or N, Designing Engineer WOLFEY, HANK
 Approval letter provided? or N
 Well 50 feet from tank or N 100 feet from leach field or N
 Well installed at time of septic system inspection or N Public Water
 *Approval will be revoked if in the future the well is found to be within 50 feet of the septic tank and/or 100 feet of the disposal field.

NOTES: ... RECORD SYSTEM



El Paso County Public Health
 Environmental Health Services
 1675 W. Garden of the Gods Rd., Suite 2044
 Colorado Springs, CO 80907
Hank Wolfe
 7/31/15