El Paso County, CO
Public Health
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 ON-SITE WASTEWATER TREATMENT SYSTEM
# FINAL INSPECTION FORM

**P**

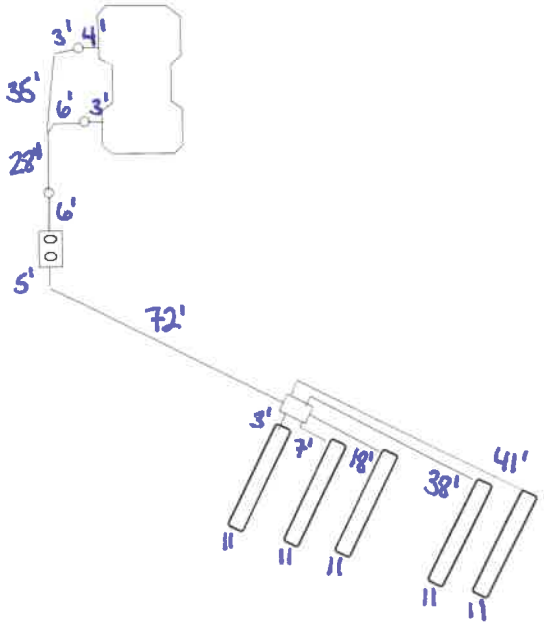
On-site ID: ON0049655 Tax schedule(APN) #: 4400000001 Permit Type: New
Environmental Health Specialist: Kevin Bolinsky (Bex Petro) Final Inspection Date: 11.14.2018 Approved: Yes

**Residential Property Information:**
Owner: Michael and Kristina Phillips Address: 17415 Davis Rd Peyton, CO 80831 Approved No. Bedrooms: 4
Water supply: Well Well Installation verified: N/A Well Location GPS: 38 51' 59" N, 104 30' 2" W
*Approval will be revoked if in the future any well is found to be within 50 feet of the septic tank and/or 100 feet of the soil treatment area.*

**Minimum System Requirements:**
**Soil (in-situ) Type:** 2 **LTAR (In-situ soil):** 0.6 **Limiting Layer:** Groundwater: None Bedrock: None
**OWTS Tank:** Capacity (gallons): 1250 **OWTS Pump Tank:** Capacity (gallons): N/A
**Soil Treatment Area (STA):** Sq. Ft. (10-1): 875 Sq. Ft. (10-2): 875 Sq. Ft. (10-3): 613 Sq. Ft. (with Diverter Valve): NA

**Final system installation:**
**Licensesd Installer:** Tier II Installer: Down to Earth Excavating
**Treatment Level:** 1
**OWTS Tank:** GPS Location: 38 52' 2" N, 104 30' 20" W
Tank Type: New Poly Capacity (gallon): 1500
**OWTS Pump Tank:**
Tank Type: NA Capacity (gallon): N/A Audio/Visual Alarm: NA **OWTS Pump:** N/A
**Soil Treatment Area (STA):** GPS Location: 38 52' 1" N, 104 30' 21" W Total Sq. Ft installed: 660
Configuration: Trench Distribution: Gravity
Distribution Media: Chambers Inflitrative Surface Depth: 12-36"
Distribution Area Length: N/A Distribution Area Width: N/A
Media Type: Q4 Chambers (12 sq/ft) Total installed: 55

Notes: Not to scale



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: MICHAEL AND KRISTINA PHILLIPS
17415 DAVIS RD
PEYTON, CO 80831

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**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**

# NEW SYSTEM PERMIT - OWTS

Valid From 6/5/2018 To 6/5/2019

**PERMITEE :** MICHAEL AND KRISTINA PHILLIPS
17415 DAVIS RD
PEYTON, CO 80831

**OWNER NAME :** MICHAEL AND KRISTINA PHILLIPS

**Onsite ID:** ON0049655
**Tax Schedule # :** 4400000001
**Permit Issue Date:** 06/05/2018
**Dwelling Type:** RESIDENTIAL
**# of Bedrooms** (if Res): 4
**Proposed Use** (if Comm):
**Designed Gallons/Day:**
**Water Source:** PRIVATE WELL

## System Installation Requirements:

- A Conventional non-engineered OWTS system to be installed on site.
- System installation includes gravity fed system with d-box to chamber in trenches, max installation depth of 48". Minimum tank requirements 1250 gallon and 613 sq ft of soil treatment area (52 Q4 / 41 Arc 36 chambers required).
- The system must be installed per approved design document signed and dated 5.2.2018, changes to the approved design document must be submitted and approved by Public Health prior to installation.
- All horizontal setbacks must be maintained through system installation. In addition system must remain completely uncovered, including the tank size, for final inspection.
- The well must be installed at time of final inspection, or final approval will not be given until well installation is verified.
- Ensure that all work is completed prior to contacting and requesting final line for inspection, otherwise additional fees may be incurred.

**For questions, call Bex: 352-1846**

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Attn: MICHAEL AND KRISTINA PHILLIPS
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PEYTON, CO 80831

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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 3:30 p.m. the business day prior to the requested inspection date.**

Matt Bell

Authorized By: Environmental Health Specialist

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SB0009341 AB0013501 ON0049655

# *APPLICATION FOR AN ON-SITE WASTEWATER TREATMENT SYSTEM PERMIT*

**Property Information:**
Property Address: ~~2395 Slocum Road~~ (AKA 17415 Davis Rd) City and Zip: Peyton, Co 80931
Legal Description: LENGTHY, SEE SITE PLAN
Tax Schedule #: 4400000001 Lot size: ~20 Acres
Is the property gated: ☐ Yes ☒ No Please provide a gate code if necessary: _____
Site Located Inside City Limits: ☐ Yes ☒ No Proposed Use: ☒ Residential ☐ Commercial
Water Supply: ☒ Well ☐ Cistern ☐ Municipal *Potential* Number of Bedrooms: 4
Has a Conditional Acceptance Document been issued for this property: ☐ Yes ☐ No ☒ Unsure

**Owner Information:** ☒ Primary Contact
Owner: Michael & Kristina Phillips Daytime Phone: 719 216 4866
Owners Mailing Address: 11910 Brahman Court
Email Address: mphi456@gmail.com Fax #: _____
General Contractor: Self Phone/Email: _____

**OWTS Installer Information:** ☐ Primary Contact
System Installer: Down To Earth EXC Daytime Phone: 719 495-3660
Email Address: rick.downtoearthexc@gmail.com Licensed installer: ☒ Tier 1 ☒ Tier 2
**All engineer-design systems *must* be installed by a Tier 2 licensed installer**

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

**All payments are due at the time of application submittal; by cash, check or major credit card (Visa / MC)**

☒ **New Permit:** $750.00 (EPCPH Charge) + $147.00 (EPC Planning Dept. Surcharge) + $23.00 (CDPHE Surcharge) = **$920.00**
☐ **Major Repair Permit:** $535.00 (EPCPH Charge) + $23.00 (CDPHE Surcharge) = **$558.00**
☐ **Minor Repair Permit:** $245.00 (EPCPH Charge) + $23.00 (CDPHE Surcharge) = **$268.00**

**Permits expire one year from date of issuance, unless otherwise noted**

***REQUIRED*: Provide a complete written scope of work to be performed on the property.**

Excavate for 1250 gal septic tank. Install and set tank
Excavate for 5 infiltrator trenches, 3' x 44'
Install infiltrators, piping, & distribution box(es)
Backfill system

The following documents **MUST** be included with your application.

- A soils report: including at least 1 soil profile excavation pit, in accordance with section 8.5 A-F of OWTS regulations
- A clear and legible design document: including the proposed and alternate locations, as well as system layout, labeled with all setbacks to pertinent structures and features in table 7-1.
- Provide directions to property, from a main highway, on the back side of application.

*Failure to provide the above listed documents may result in denial of the permit application*

I certify that the information provided on this application is in compliance with Section 8.3, Chapter 8 of the On-site 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.

Applicant Signature: Michael A Phillips Date: 5/1/2018

Reviewed 2018 approved fee (12/04/2017)

Bet

- Property address or lot number must be clearly marked and visible from the road.
- Profile excavation test pit and/or soil profile holes must be clearly marked
- Proposed and alternate soil treatment areas must be protected from compaction and disturbance
- Locked gates require the gate code or lock combination be provided on front of application
- Please provide directions to the property from a main highway, by text or picture, below.

From Colorado Springs: Hwy 94 EAST approximately 10 miles to Slocum Rd. Turn left, heading North, go approx 2 miles look for sign "Carreras de Caballos", Turn right onto dirt road. Follow road around two 90° turns. Continue until you come to a yellow box container. Turn into driveway that has no gate amid the trees. Note: Using Google Maps the Davis Rd address will show the location (17415 Davis Rd).

*Failure to comply with the above information may result in an additional charge for a return trip.*

**Permit #:** ON0049655 Site Inspection date: 5/24/18

Date Approvals Rcvd: Development Services: 5/29/18 Floodplain/enumerations: 5/24

Design: ☒ Conventional ☐ Engineer Design Engineer: _____

Engineer Job #: _____ Engineer Date Stamped: 5-18-18

LTAR/Soil Type: 0.8/Type 1/Designing using 0.6/Type 2 Groundwater: ~~PP1~~ PP2 Bedrock: ~~PP1~~ PP2

Minimum Requirements: Tank Capacity: 1250 Soil Treatment Area: 613

System Feed: ☒ Gravity ☐ Pump to Gravity ☐ Pressure Dosed ☐ Other: _____

System Media: ☒ Chambers ☐ Rock and Pipe ☐ Other Soil Treatment Area: ☒ Trenches ☐ Bed

Additional Comments: 525/0.6 = 875 (1) = 875 (0.7) = 613 (604 sq/ft Arc 36)

Owner wants to use 0.6 LTAR instead of actual 0.8 for design

E.H. Specialist: Ben Date: 6/15/18 ☒ Approved ☐ Denied

17415 Davis Rd
Peyton, CO 80831

E

ON:0049655
TAX:4400000001
Final: 11/14/2018

**Jesik Consulting**
*Geotechnical, Water, Testing*

102-D Oneida Street
Pueblo, Colorado 81003
(719) 582-5588
www.jesik.us

# ONSITE WATER TREATMENT SYSTEM SITE AND SOIL EVALUATION

**FOR PROPERTY AT**
2385 Slocum Road
Schedule # 4400000001
Peyton
El Paso County, Colorado

**PREPARED FOR:**
Michael & Tina Phillips
11910 Brahman Ct.
Peyton, CO 80831

**PREPARED BY JESIK**
PROJECT NUMBER: 16-7182

December 30, 2016

Joseph A. Jesik, P.E.

## TABLE OF CONTENTS

# 1. INTRODUCTION

Jesik Consulting has completed an onsite water treatment system (OWTS) site and soil evaluation for the subject property at the request of Ms. Tina Phillips. Site and soil investigation results and OWTS recommendations are included to comply with local requirements and present an appropriate wastewater treatment system for this site.

A desktop evaluation, site reconnaissance, and detailed soil investigation were completed.

# 2. DESKTOP EVALUATION

A desktop evaluation was completed on 11/1//16 in preparation of the site reconnaissance and detailed evaluation.

## *2.1. HEALTH DEPARTMENT RECORDS*

There was no evidence of a historical OWTS and Health department records are not likely to exist for the site.

## *2.2. PUBLISHED TOPOGRAPHY AND SOIL INFORMATION*

Topographic information was gathered by JESIK from the National Map Online system.

Soils information from the Natural Resource Conservation Service (NRCS) shows:

- Truckton sandy loam in approximately 100% of the site. NRCS has rated this soil as "not limited" for Soil Treatment Areas (STA).

The soils and topography of the site do not indicate any areas that may be better suited for an STA.

Topographic information, a map showing locations of the NRCS soil types, and descriptions of NRCS ratings are attached in Appendix A.

# 3. SITE AND SOIL CONDITIONS

Curt Derby of Jesik Consulting completed the site Reconnaissance and a detailed soil evaluation on 11/04/16. Personnel qualifications are presented in Appendix C.

## *3.1. EXISTING FACILITIES*

The site has an existing well located southwest of the building site. Existing facilities and test locations are shown on the attached site plan.

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Moved ~300'

16-7182 orig. no.

# OWTS TEST PIT LOG

N 38° 82.022'
W 104° 30.345'

Project No: 7479 Project Name: Phillips

Test Pit No.: 1 Date of Logging: 5-4-18

| Soil Depth (BGS) 8" | USDA Soil Texture | USDA Soil Structure Shape | Structure Grade | Redoximorphic Features (Y/N) | Soil Type |
|---|---|---|---|---|---|
| 0-8' | 1 | — | Singlegrain | N | Sandy loam (1) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Is there a limiting condition such as low permeability, bedrock, groundwater, or other condition that restricts the treatment capability of the soil? ☐ Yes ☒ No
If yes, explain how the limiting condition should be addressed:

Is there evidence of past groundwater (Redoximorphic features)? ☐ Yes ☒ No

Excavation equipment used: Backhoe

## CERTIFICATION

I certify that the information on this form is correct and complete to the best of my knowledge and that I have the required training and/or experience.

Signature:

Print Name: Joe Bonney

Date: 5-21-18

COLORADO LICENSED
JOSEPH A. JESIK
39781
05-18-18
PROFESSIONAL ENGINEER

BP 6-1

**Jesik Consulting**
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Pueblo, Colorado 81003
(719) 582-5588
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N 38° 52.018
W 104° 30.352

# OWTS TEST PIT LOG

Project No: 7479 Project Name: Ph. II. pS

Test Pit No.: 2 Date of Logging: 5-4-18

| Soil Depth (BGS) 8" | USDA Soil Texture | USDA Soil Structure Shape | Structure Grade | Redoximorphic Features (Y/N) | Soil Type |
|---|---|---|---|---|---|
| 0-8 | 1 | - | Single Grain | N | Sandy Loam (1) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Is there a limiting condition such as low permeability, bedrock, groundwater, or other condition that restricts the treatment capability of the soil? ☐ Yes ☒ No
If yes, explain how the limiting condition should be addressed:

Is there evidence of past groundwater (Redoximorphic features)? ☐ Yes ☒ No

Excavation equipment used: Backhoe

## CERTIFICATION

I certify that the information on this form is correct and complete to the best of my knowledge and that I have the required training and/or experience.

Signature: [signature]

Print Name: Joe Bonney

Date: 5-4-18

COLORADO LICENSED
JOSEPH A. JESIK
39781
05-06-16
PROFESSIONAL ENGINEER

BP 2-1

### *3.2. SITE CONDITIONS*

The site slopes downward to the south with a slope of approximately 3%. Vegetation consists of a thin covering of native grasses and weeds. Juniper trees and shrubs were observed on scarce areas of the site. Thick green vegetation or plant species indicative of shallow water were observed at the south area of the lot. A small stream exists near the south end of the lot, which runs east to west.

The site is currently vacant land. Historically, the site appears to have been vacant land.

### *3.3. SOIL EVALUATION*

Jett Johnson of Jesik Consulting completed a visual and tactile evaluation of 1 soil profile test pit and a percolation test located in the STA.

Test pits were excavated with an excavator by Down to Earth Excavating company. The percolation test was completed at the likely depth of the infiltrative surface. Percolation test holes were excavated by a truck mounted 8 in diameter solid stem auger.

Redoximorphic features or other indicators of groundwater were not encountered within 8-feet (ft) of the existing ground surface. Bedrock was not encountered within 8-feet (ft) of the existing ground surface.

The test pit log and percolation test details are presented in Appendix B.

## 4. OWTS CONSTRUCTION

Hard rock or shallow water conditions are not anticipated at the site. It is not likely that special construction methods or equipment will be required for the OWTS installation at the site.

Minimum setback distances from OWTS system components to buildings, ponds, drainages and other pertinent features are attached as Table 1.

## 5. LAND USE CHANGES

A single-family home will be constructed on the site with minor changes to the existing grading. Any additions to the home in the future will require the OWTS system to be evaluated for increased capacity and performance criteria.

## 6. SITE EVALUATION DIFFICULTIES

There were no site evaluation difficulties.

# 7. MAINTENANCE AND CARE OF YOUR OWTS SYSTEM

## *7.1. DO'S & DONT'S*

- DO inspect your septic system every year
- DO pump out septic tank every four years
- DO keep records of pumping, inspections and other maintenance
- DO repair leaking faucets and toilets
- DO conserve water to reduce wastewater
- DO divert roof drains and surface water away from the absorption field
- DO call a professional when you have questions
- DON'T drive or park over any part of your septic system
- DON'T use commercial septic tank additives
- DON'T dig or build on top of your septic system
- DON'T plant anything over the absorption field (non-irrigated, native grasses are ok)
- DON'T flush non-biodegradable items into your system, such as diapers, tampons, etc.
- DON'T irrigate the soil treatment area.

## *7.2. OWTS MAINTENANCE*

1. Control the amount of water discharged into the system. Your system is designed to handle a specific amount of water. Larger volumes of water will overload the absorption field. To control the amount of water discharged into the system you should:
   - Repair any leaking faucet or toilet immediately.
   - Divert run-off water from roof eaves, drainpipes and foundation drains away from the absorption field.

2. Normal amounts of these household products will not harm a septic system:
   - Soaps, detergents, and bleaches.
   - Wastewater from a home water softener may cause a slight shortening of the life of the absorption field because of the extra volume of water that's used. The salts from water softeners will not harm the septic system.

3. DO NOT dispose of these items in your system:
   These materials do not decompose in the septic tank: Household items such as facial tissues, tampons, sanitary napkins, cigarette butts, coffee grounds, egg shells, oily waste or grease from cooking, bones, paper towels, newspaper, wrapping paper, rags and disposable diapers.
   Materials such as strong acids, photographic chemicals, and above normal amounts of drain cleaners may upset the biological process in the septic tank.

Latex paint, wastewater from a pottery hobby and sheet rock mud remain in suspension in the septic tank, and then flow into the absorption field and clog the pores of the soil.

Note: There are many chemical products for sale that claim to improve the digestion process in the septic tank. Jesik Consulting does not endorse any of these products. With proper care and maintenance, the system should work well without added chemicals.

4. Regularly inspect the level of sludge and scum in the septic tank.

   Jesik Consulting recommends that tanks be inspected once a year.

   The rate at which sludge and scum accumulate in the septic tank varies greatly from one household to the next. It is important to have your tank inspected regularly (once per year) or if you wish to do this inspection yourself, follow these instructions:

   - Before the septic is pumped, measure scum depth
     a. Attach a 6-inch square board to the bottom of a stick about 6 feet long.
     b. At the outlet end of your tank, extend the stick through the scum layer to find the bottom of the baffle or effluent pipe.
     c. Mark your stick to indicate that point.
     d. Raise the stick unit you "feel" or see the bottom of the scum layer.
     e. Mark your stick again to indicate that point.
     f. If the two pencil marks are 3 inches apart or less, or if the scum surface is within 1-inch of the top of the outlet baffle, the tank requires cleaning.

   - Measuring sludge depth
     a. Wrap 3-feet of white rag or toweling around a long stick.
     b. Place the stick into the sludge, behind the outlet baffle if possible.
     c. Hold the stick there for several minutes.
     d. Remove the stick noting the sludge line.
     e. If the sludge line is within 12-inches of the outlet baffle, or within 18 inches of the outlet fitting, the tank requires cleaning

   - After the septic is pumped
     a. Inspect the Tank for any visible cracking, leaking or worn out parts. It is important that the tank is watertight so that no ground water is getting into the tank nor water from the tank is seeping into the ground.

b. It is also important to inspect the inlet and outlet pipes for presence of water entering the tank.
c. The effluent filter (if being used) should also be inspected. Pull out the filter and hose the contents back into the tank.

5. Regularly remove the sludge and scum from the septic tank.

   Sludge and scum must be pumped out of the septic tank before they reach the outlet tee or baffle, or they will flow out into the absorption field and clog the pores of the soil so it can no longer absorb liquid.

   At a minimum, Jesik Consulting recommends that tanks be pumped every four years. Check with your local health department for special requirements.

   Keep your absorption field in good condition.

   Cut grass and weeds growing on the absorption field often.

   Absorption fields usually are installed at very shallow depths. Because of this; (1) vehicles must be kept off absorption fields (2) buildings, corrals for livestock, fences and trenches should not be constructed on top of absorption fields and (3) trees and shrubbery should not be planted within or immediately adjacent to the field.

   Some septic systems have two or more absorption fields. Valves connect these fields so the wastewater flow can be alternated between fields. If you have such a system, you should switch the diverter valve every summer.

## 8. LIMITATIONS

In any site evaluation, limited data is available from which to formulate soil descriptions and generate recommendations for onsite wastewater system and related construction components. The observations and testing taken are indicative of the subsurface materials at the time and at the location the samples were taken. Precipitation, seasonal changes, and excavating are just a few of the factors that may create changes in the composition of the site. If conditions are encountered which are significantly different from those described in this report, contact this office before proceeding.

By acceptance of this report all parties agree that the purpose of this report is to provide site and soil data and OWTS recommendations only and does not address nor was intended to address any environmental issues, hazardous materials, mold issues, toxic waste issues or other subsurface situations or conditions other than those described within this report. This report is intended for the sole use of the above named client and their approved

agents. This office cannot be responsible for any conclusions or recommendations made by other parties based upon the data contained herein.

## 9. REFERENCES

Pueblo City-County Board of Health, (2014) On-Site Wastewater Treatment Systems Regulation No. VIII

Board of Health, (2014) Onsite Wastewater Treatment System Regulation of Summit County Colorado

Clear Creek County, (2014) On-site Wastewater Treatment System Regulations

Colorado Department of Health and Environment, (2013) On-Site Wastewater Treatment System Regulation No #43, 5 CCR 1002-43

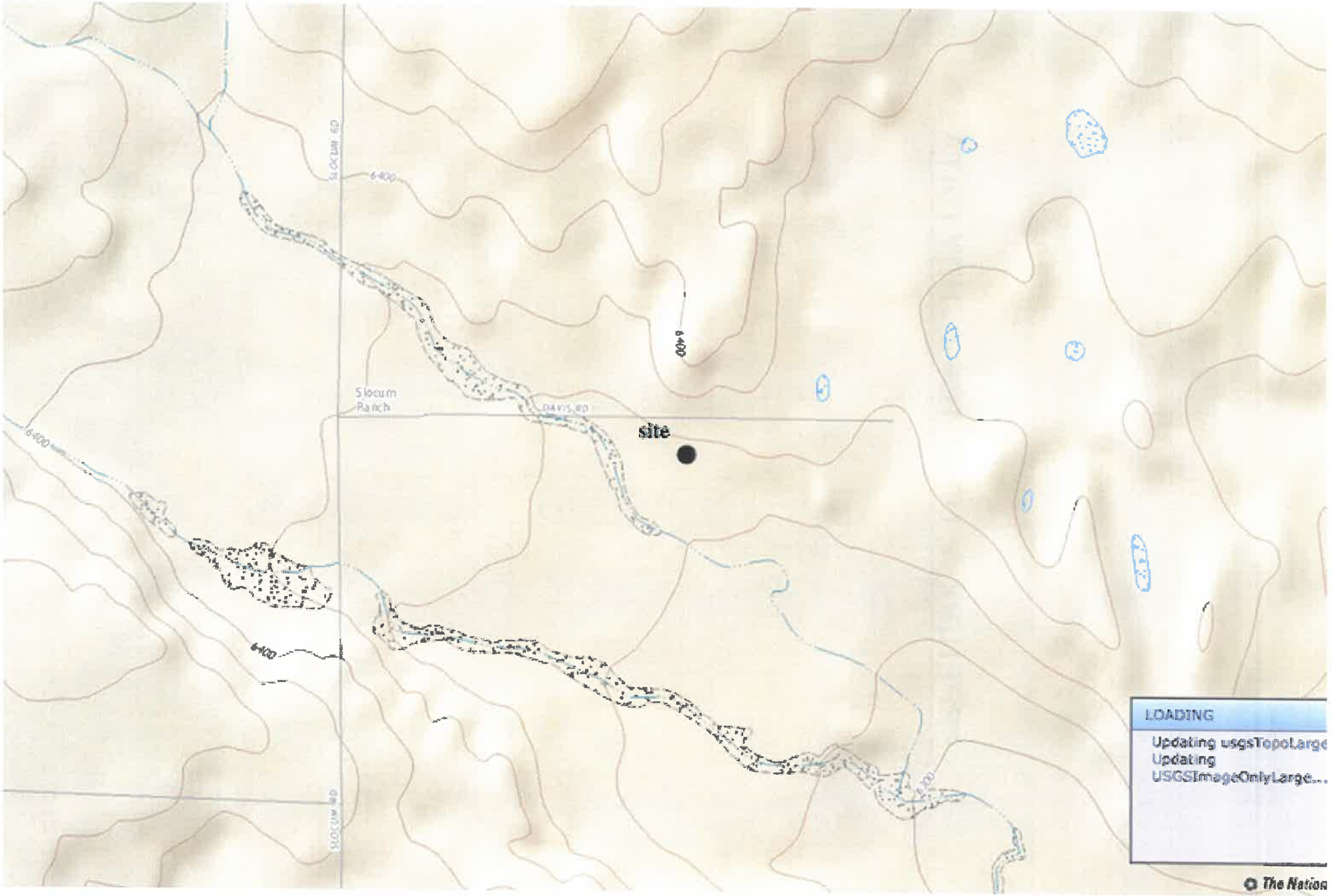
El Paso County Board of Health, (2014) On-Site Wastewater Treatment System Regulations

Jefferson County Board of Health, (2014) Onsite Wastewater Treatment System Regulation of Jefferson County, Colorado

Tri-County Health Department, (2014) Regulation O-14 Onsite Wastewater Treatment Systems

U.S. Department of Agriculture, (2002) Field Book for Describing and Sampling Soils

Weld County Department of Health and Environment. (2014) Onsite Wastewater Treatment System Regulations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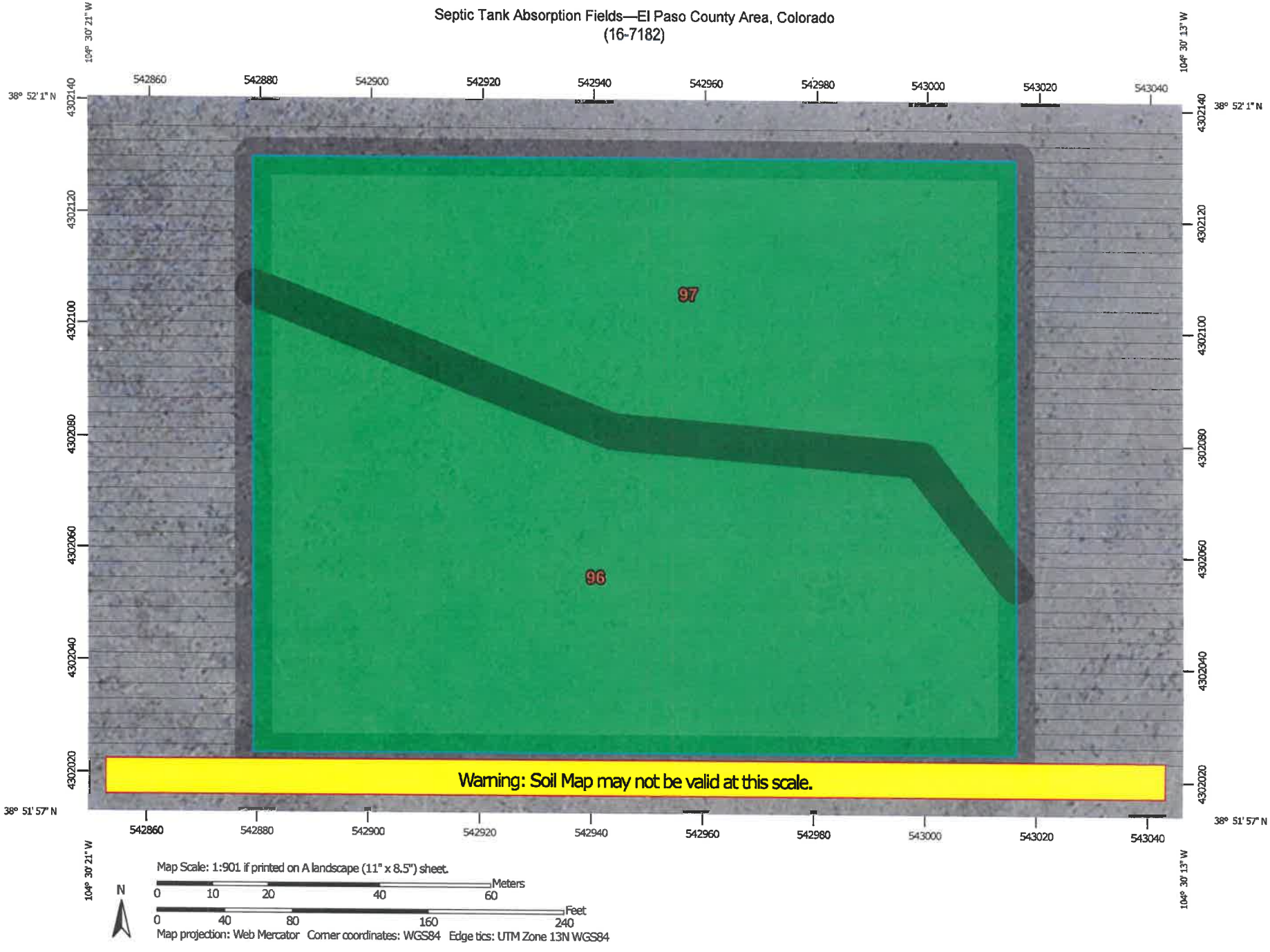
# APPENDIX A: DESK TOP STUDY DATA


104° 30' 21" W
104° 30' 13" W
38° 52' 1" N
38° 51' 57" N
542860
542880
542900
542920
542940
542960
542980
543000
543020
543040
4302140
4302120
4302100
4302080
4302060
4302040
4302020
97
96
Warning: Soil Map may not be valid at this scale.
Map Scale: 1:901 if printed on A landscape (11" x 8.5") sheet.
N
Meters
0 10 20 40 60
Feet
0 40 80 160 240
Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84

## MAP LEGEND

**Area of Interest (AOI)**
- Area of Interest (AOI)

**Soils**

**Soil Rating Polygons**
- Very limited
- Somewhat limited
- Not limited
- Not rated or not available

**Soil Rating Lines**
- Very limited
- Somewhat limited
- Not limited
- Not rated or not available

**Soil Rating Points**
- Very limited
- Somewhat limited
- Not limited
- Not rated or not available

**Water Features**
- Streams and Canals

**Transportation**
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

**Background**
- Aerial Photography

## MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: El Paso County Area, Colorado
Survey Area Data: Version 14, Sep 23, 2016

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

Date(s) aerial images were photographed: Apr 15, 2011—Sep 22, 2011

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

El Paso County, CO
Public Health

Prevent • Promote • Protect

Environmental Health Division

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(719) 575-3188 fax
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# *CONVENTIONAL (NON-ENGINEERED) ON-SITE WASTEWATER TREATMENT SYSTEM (OWTS) DESIGN WORKSHEET*

**(MUST BE COMPLETED FOR ALL CONVENTIONAL DESIGNS)**

## Wastewater Flow

Total number of bedrooms: 4 ✓

Design wastewater flow (gallons/day) from Table 6-1: 525 ✓

## Septic Tank

Septic tank size (in gallons) from Table 9-1: 1250 ✓

Tank burial depth (from top of tank, in inches) 36" ✓
(***NOTE***: Shall not exceed 48 inch depth by regulation)

Will groundwater affect tank? Yes ☐ No ☒ ✓

Will an effluent screen be installed? Yes ☒ No ☐
(***Note:*** Effluent screens are required for all new systems or replacement of the septic tank)

## Soil Treatment Area (STA)

Long Term Acceptance Rate (LTAR) From Table 10-1: 0.60 0.8? ✓

Unadjusted STA size (see 8.10.C.4) – show calculation:
Design flow (gallons per day)
LTAR (gallons/day/sq.ft.) = 525/.60 = 875 ✓

Depth of STA (cannot exceed 48"):
24" Trenches are preferred. If bed system is selected, the selection reason must be specified:

Type of STA (check which applies):
☒ Trench ☐ Bed

**FOR REPAIRS ONLY** (check which applies):
- ☐ Wide Bed (more than 12 feet wide)
- ☐ Deep Gravel Trenches
- ☐ Seepage Pit
- ☐ None of the Above

Bp all

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

- [x] Gravity
- [ ] Pump to gravity
- [ ] Dispersed by siphon

**Type of Distribution Media** (check which applies):

- [ ] Rock
- [ ] Tire chips
- [x] Chambers
- [ ] Other _____ Other type _____

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

875 • (.7 Chambers) • (1.0 gravity) = 612.5

**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**

Michael F. Phillips
Signature

Michael F. Phillips
Print Name

5/1/2018
Date

7385 Slocum Rd
Property Address

Self
Company Name

11910 Brahman Ct Peyton 80831
Address

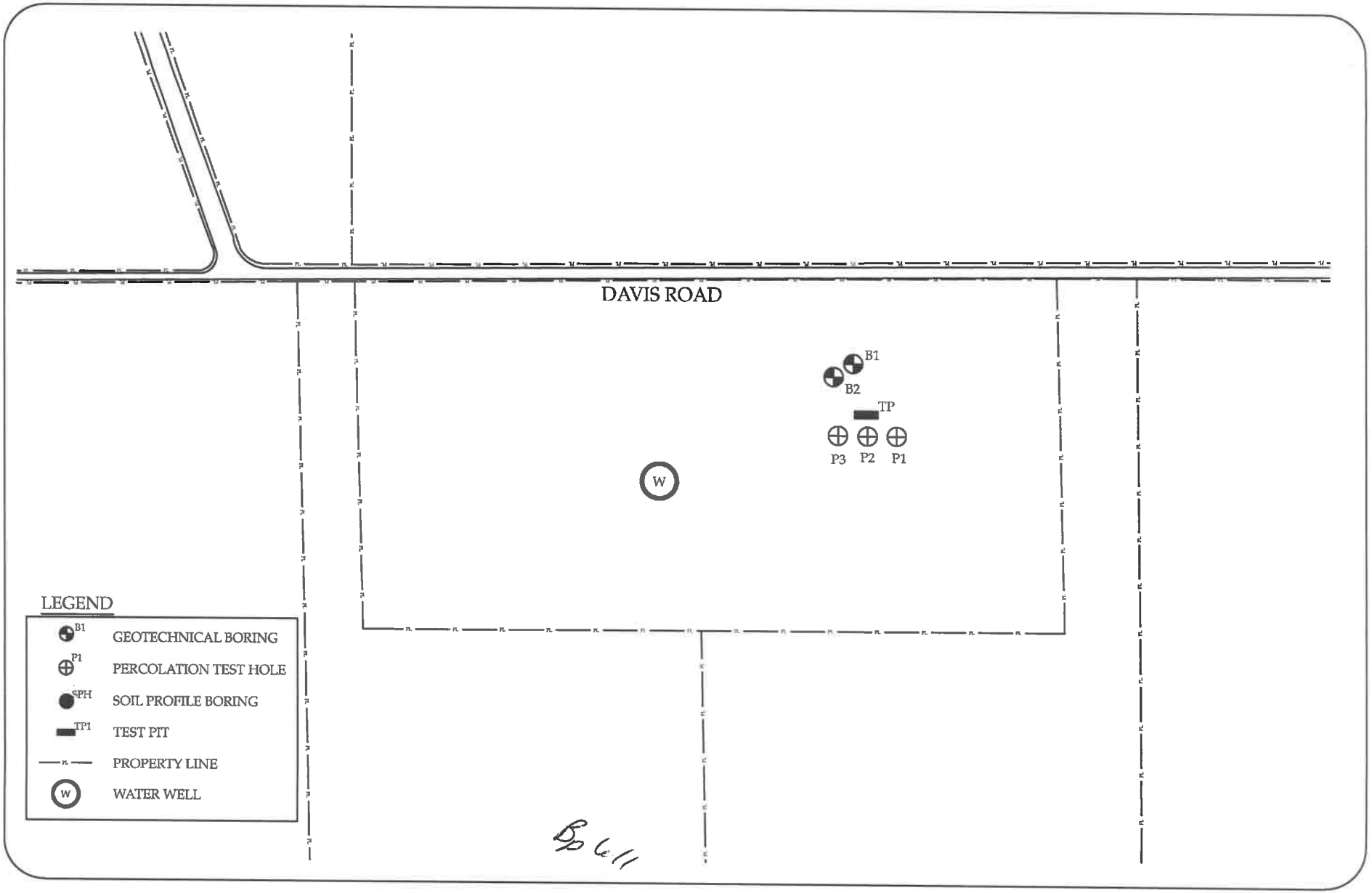
719 216 4866
Phone

mphi456@gmail.com
Email

(See attached Tables and Design Document examples)



bf 6/1




Bp 6/11

GENERAL NOTES

BORINGS DRILLED NOVEMBER 04, 2016
ALL MEASUREMENTS ARE APPROXIMATE

N

0 50 125 250
1" = 250'

| No. | Revision/Issue | Date |
|---|---|---|
| JJ | Rev. 0 | 12/16 |
| | | |

Jesik
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SITE INVESTIGATION PLAN FOR:

PHILIPS

SCHEDULE NO. 4400000001
PEYTON
EL PASO COUNTY, COLORADO

PROJECT NUMBER: 16-7182

DATE: 12/20/16

SCALE: 1" = 250'

SHEET: SP-1

# DRAWINGS