TULSA HEALTH DEPARTMENT

5051 S 129th East Ave
Tulsa, Oklahoma 74134
Phone: 918-595-4200 Fax: 918-595-4284

Oklahoma Certification
Drinking Water, DEQ D9409
Wastewater, DEQ 9916

Laboratory Results

PWS:		**Invoice To:**			
Customer:	Assured Home Inspectors	**Contact:**		**PO#:**	
Contact:		**Address1:**			
Address1:	12345 Main Street	**Address2:**		**Receipt:**	184651
Address2:		**City:**			
City:	Tulsa	**State:**	**ZIP:**		
State:	OK **Zip:** 74133				

Date Collected:	4/29/2020	**Time Collected:**	13:00	**lab#:**	51275
Sampler:				**Date Received:**	4/30/2020
Collection Site:	14700 W 809RD TAHLEQUAH			**Time Received:**	8:15
Location:	14700 W 809RD TAHLEQUAH				

Parameter	Results	Units	*Det. Limit	Time Analyzed	Date Analyzed	Analyst	EPA Method
Lead	<0.002	mg/L	.002	10:35	5/5/2020	LS	3113B
Nitrate/Nitrite	<0.04	MG/L	0.04	11:23	5/7/2020	SB	353.2

QA/QC Report

Parameter	Blk	%RPD	%LFB	%Recovery	Batch #
Lead	<.002	0.0	106	104.0	Pb05052001
Nitrate/Nitrite	<0.04	0.8	101.0	100.6	No3/No205072001

* Detection Limit

Remark:

Lois Swanson
Laboratory Supervisor

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Significance of Water Supply Analysis

Parameter: **Coliform**
Source: Various types of contamination
Significance: The Coliform group of bacteria is used as an indicator organism to prove the possible presence of pathogens. **The presence of any Coliform bacteria makes the water unsafe to drink.**

Parameter: **Lead**
Source: Corroded old pipes and pipe soldering
Significance: Drinking water standards require that any amount in **excess of 15 ppb or 0.015mg/L make the water hazardous for consumption**

Parameter: **Nitrate**
Source: Decaying organic matter, sewage, fertilizer, and nitrates in soil.
Significance: Waters with **a higher level than 10-mg/L nitrate content** have been reported to cause of **methemoglobinemia (an often fatal disease in infants, blue baby).** It encourages growth of algae and other organisms, which produce undesirable tastes and odors.

Parameter: **Copper**
Source: Copper tubing used from plumbing purposes.
Significance: Contamination in **excess of 1.30mg/L or 1300ppb could make the water harmful and unsafe for human consumption.** Copper lines may be corroded resulting in green stains and possible health problems.

Parameter: **Hardness**
Source: Hardness due to calcium and magnesium
Significance: Consumes soap before lather will form. Hard water is from scales in boilers, water heaters, and pipes. Water hardness as much as **75mg/L are considered soft; 76-150mg/L are moderately hard; 151 to 300mg/L are hard; more than 301 mg/L are very hard.**

Parameter: **Total Dissolved Solids**
Source: Mineral substances dissolved in water from rocks and soils.
Significance: Drinking water standards **recommend that water containing more than 500 mg/L dissolved solids** not be used if other less mineralized supplies are available. Water containing more than 1000 mg/L dissolved solids are unsuitable for many purposes.

Parameter: **Alkalinity**
Source: Solution of carbonate rocks mainly limestone and dolomite.
Significance: Bicarbonate and carbonate produce alkalinity. Within the **range of 30 to 500mg/L**, Total Alkalinity should be that value which from experience is satisfactory for a particular water supply. Under saturated conditions will precipitate out and form a protective coating upon the lines of water distribution system. Up to a point, this coating is desirable as it protects the lines. However, the lime may continue to coat and clog the line. Water with a pH and alkalinity that is to low, is likely to result in corrosion of metal lines.

Parameter: **Chloride**
Source: Dissolved from rocks and soil.
Significance: In large amounts in combination with sodium, gives salty taste to drinking water. An **upper limit of 250 mg/L has been recommended.**

Parameter: **Sulfate**
Source: Dissolved form rocks and soils containing gypsum and other sulfur compounds.
Significance: Excessive concentrations of sulfate in water may act as a laxative to unaccustomed consumers. A bitter or gyp taste is often associated with high sulfate concentrations. The **recommended maximum is 250 mg/L.**

Parameter: **Iron and/or Manganese**
Source: Dissolved from rocks and soil.
Significance: Can stain laundry, utensils and sinks a reddish-brown as well as produce reddish to black colored water. Limits of 0.3 **mg/L for Iron** and **0.05 mg/L for Manganese** have been recommended.

TULSA CITY-COUNTY HEALTH DEPARTMENT
ENVIRONMENTAL HEALTH SERVICES LABORATORY
5051 SOUTH 129th EAST AVENUE, TULSA, OK 74134
918-595-4200

PETE PETREE
4808 S 191 E AVE
TULSA OK 74134

MSIS #:
LAB ID - SAMPLE ID 9409 - 443666

FACILITY PETE PETREE
OWNER PETREE, PETE
OPERATOR
COUNTY TULSA

COLLECTOR
COLLECTED AT 12345 Main Street
LOCATION CODE
CHLORINE

LOCAL DEQ (TULSA)
5051 SO 129TH E AVE
TULSA OK 74134

COLLECTED	04/06/2020	18:00
RECEIVED	04/07/2020	13:00
ANALYZED	04/07/2020	13:55

PHONE: (918) 398-3600
FAX:

SAMPLER REMARKS

ANALYST REMARKS	TEST METHOD	PA/PA
Total Coliform: POSITIVE E. Coli: NEGATIVE *For drinking water to be considered safe for human consumption, it must be free from all coliform organisms. Therefore, the sample was not safe.		

Wednesday, April 8, 2020