

Environmental Services Company, Inc.

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 1107 Century Avenue
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| | | |
|--|----------------------------------|-------------------|
| Control Number: 1412020027 | Sample Date : 12/03/14 | Collected By: WDS |
| Customer Name : CAVE SPRINGS, CITY OF | Sample Time : 1150 | Delivery By : WDS |
| Customer/Permit No. : 1826 / 4893-WR-2 | Sample Type : GRAB | Work Order : |
| Report Date : 12/11/14 | Sample From : EFFLUENT DOSE TANK | Purchase Order : |

| Analysis | | Laboratory Analysis | | | | Quality Assurance | | |
|----------|----------|---------------------------|-------------|-------|----------|--------------------|--------------------|------------------------|
| Date | Time By | Parameter | Result | Notes | Quantity | Method | Precision % RPD | Accuracy % Recovery |
| 12/04 | 1430 TSB | Ammonia Nitrogen | 12.0 mg/L | | | SM 1997 4500-NH3 F | 0.00 | 106.0 * |
| 12/04 | 0900 TSB | Kjeldahl Nitrogen Total | 16.80 mg/L | | | SM 1997 4500-NorgB | 2.21 | 101.6 * |
| 12/04 | 1030 TSB | Nitrate Nitrogen | 25.35 mg/L | | | SM 2000 4500-NO3 E | 1.18 | 100.2 * |
| 12/04 | 1030 TSB | Nitrite Nitrogen | 1.450 mg/L | | | SM 2000 4500 NO2 B | 8.00 | 102.0 * |
| 12/03 | 1150 WDS | pH | 7.1 S.U. | | | SM 2000 4500-H+ B | 0.00 | N/A * |
| 12/04 | 0930 TSB | Phosphorous, Total (as P) | 6.3 mg/L | | | EPA 365.3 | 0.00 | 100.0 |
| 12/05 | 0800 KIK | Solids, Total Suspended | 21.0 mg/L | (b) | | SM 1997 2540 D | 24.00 | N/A * |
| 12/03 | 1330 VLP | Coliform, Fecal | 6800 /100ml | | | SM 1997 9222 D | 0.00 | N/A * |
| 12/03 | 1300 KIK | BOD, Carbonaceous | 13.0 mg/L | | | SM 2001 5210 B | 2.53 | 112.0 * |
| 12/09 | 1640 KIK | Solids, % Total | 0.040 % | | | SM 1997 2540 G | 7.59 | N/A |
| 12/08 | 1400 TSB | Nitrogen, Plant Available | 40.2 mg/L | | | SM 1997 4500-N | | |

* QA data shown is from a different sample or standard on the same date.
 (b) Exceeds Permit Limits for Maximum Concentration

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature Richard Brown
 Environmental Services Co., Inc.

ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY
MONTHLY MONITORING REPORT FOR DECENTRALIZED WASTEWATER TREATMENT FACILITIES VIA DRIP IRRIGATION

| | |
|--------------------------|---------------------------------------|
| PERMITTEE NAME | CITY of Cave Springs |
| PERMITTEE ADDRESS | P.O. Box 36 Cave Springs, Ar 72718 |

| | |
|-------------------------------------|------------------|
| FACILITY NAME (IF DIFFERENT) | Plant #1 |
| FACILITY ADDRESS | 1499 1/2 S. Main |

| | |
|-------------------|-----------|
| PERMIT NO. | 4873-WP-L |
| AFIN NO. | 04-01642 |

MAKE ADDITIONAL COPIES OF THIS FORM FOR FUTURE USE. SUBMIT LAB ANALYSES WITH THIS FORM.

| WASTEWATER EFFLUENT MONITORING PERIOD | |
|---------------------------------------|------------|
| FROM | TO |
| 12-01-2014 | 12-31-2014 |

| TREATED WASTEWATER EFFLUENT SAMPLING | | | | | | |
|---|--------------------|--------------------|-----------|-----------------------|-------------|------------|
| PARAMETER | PERMIT REQUIREMENT | SAMPLE MEASUREMENT | UNITS | FREQUENCY OF ANALYSIS | SAMPLE TYPE | |
| PHOSPHOROUS, TOTAL (AS P) EFFLUENT GROSS VALUE | ***** | 6.3 | MG/L | ONCE/MONTH | GRAB | |
| CBOD, 5-DAY (20 DEG. C) EFFLUENT GROSS VALUE | — | 13.0 | MG/L | ONCE/MONTH | GRAB | |
| PH EFFLUENT GROSS VALUE | 6 to 9 | 7.1 | S.U. | ONCE/MONTH | GRAB | |
| SOLIDS, TOTAL SUSPENDED EFFLUENT GROSS VALUE | — | 21.0 | MG/L | ONCE/MONTH | GRAB | |
| COLIFORM, FECAL GENERAL EFFLUENT GROSS VALUE | — | 6800 | N/100 ML | ONCE/MONTH | GRAB | |
| NITROGEN, TOTAL KJELDAHL (AS TKN) EFFLUENT GROSS VALUE | ***** | 16.80 | MG/L | ONCE/MONTH | GRAB | |
| NITROGEN, AMMONIA TOTAL (AS NH ₃ -N) EFFLUENT GROSS VALUE | ***** | 12.0 | MG/L | ONCE/MONTH | GRAB | |
| NITROGEN, NITRATE + NITRITE (AS NO ₃ -N + NO ₂ -N) EFFLUENT GROSS VALUE | ***** | 26.80 | MG/L | ONCE/MONTH | GRAB | |
| PLANT AVAILABLE NITROGEN (AS PAN) CALCULATED VALUE | | 40.2 | MG/L | ONCE/MONTH | GRAB | |
| FLOW, THRU CONDUIT OR TREATMENT UNIT EFFLUENT GROSS VALUE | ***** | MONTHLY TOTAL | DAILY MAX | MGD | ONCE/MONTH | TOTAL FLOW |
| | | 0.86 | 6.033 | | | |

| | |
|---|--|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | Rick Sayre Water-Sewer Superintendent |
| TYPED OR PRINTED | |

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

| | |
|---|---------------------|
| SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | <i>Rick A Sayre</i> |
|---|---------------------|

| | | | |
|------------------|--------------|-------------------|------------|
| TELEPHONE | 479-721-7539 | DATE | 01-02-2015 |
| AREA CODE | | NUMBER | |
| | | MM/DD/YYYY | |

COMMENTS AND EXPLANATION OF VIOLATIONS (Reference all attachments here)
 TSS went BACK UP not sure why, we pumped close tank BACK to the front of plant to see how much sludge was in bottom of tank. I think our next step is to have sludge tanks pumped out and have sludge hauled off.

CAVE SPRINGS WATER DEPARTMENT

P.O. Box 5

CAVE SPRINGS, ARKANSAS 72718

NW ARKANSAS AR 727

02 JAN 2015 PM 2 T



ADEQ

Enforcement Section/Water Div.

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North Little Rock, AR 72118

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