Kacy Murillo (adpce.ad)

Subject:

RE: Work Plan for Well Installations, Eco-Vista Class 4 Landfill, Solid Waste Permit No.

0290-S4-R2, AFIN 72-00144

AFIN: 72-00144

PMT#: 0290-S4-R2

Received

By Kacy Murillo at 4:03 pm, May 10, 2023

DOC ID#: 83983

TO: BS>FILE <KM

From: Steve Jett [mailto:steve.jett@jettenviro.com]

Sent: Wednesday, May 10, 2023 2:16 PM **To:** gwreports gwreports@adeq.state.ar.us

Cc: Conrad, David <dconrad@wm.com>; Reynolds, Jodi <jreyno10@wm.com>; Michael Caldwell <mcaldwell@wm.com>;

Small, Blake <bsmall@wm.com>; Travis Doll <travis.doll@jettenviro.com>; Travis Atwood (adpce.ad) <travis.atwood@adeq.state.ar.us>

Subject: Work Plan for Well Installations, Eco-Vista Class 4 Landfill, Solid Waste Permit No. 0290-S4-R2, AFIN 72-00144

On behalf of Eco-Vista, LLC, Jett Environmental Consulting is submitting the attached Work Plan for Well Installations for the Eco-Vista Class 4 Landfill.

If you have any questions or comments regarding this submittal, please do not hesitate to contact us.

Sincerely,

Steve Jett, P.G.
Owner

Jett Environmental Consulting
18 Lexington Oaks Court
Foristell, MO 63348
314-496-4654
steve.jett@jettenviro.com
www.jettenviro.com



May 10, 2023

Submitted via Electronic Mail

Mr. Travis Atwood, Geologist Arkansas Department of Energy and Environment Division of Environmental Quality 5301 Northshore Drive North Little Rock, AR 72118

Re: Work Plan for Well Installations

Eco-Vista, LLC, Class 4 Landfill (Permit No. 0290-S4-R2)

AFIN: 72-00144

Dear Mr. Atwood:

On behalf of Eco Vista, LLC, Jett Environmental Consulting is pleased to submit this Work Plan to the Arkansas Department of Energy and Environment, Division of Environmental Quality (ADEQ), for work to be conducted at the Eco-Vista Class 4 Landfill. The proposed work is for the installation of groundwater monitoring wells, as described below.

BACKGROUND

An updated Class 4 Landfill Permit was issued by ADEQ on March 17, 2023, which stated a Work Plan is required to be submitted to ADEQ within 60 days of the effective date of the Class 4 Landfill Permit. Therefore, this Work Plan is due to ADEQ on May 16, 2023.

Per Condition No. 16 of the Class 4 Landfill Permit, a Work Plan shall be submitted for ADEQ approval for the installation of four additional groundwater monitoring wells near the Class 4 Landfill. Two wells should be located between current monitoring wells MW-20 and MW-3N and two monitoring wells should be located to the north and northwest of the new Class 4 expansion area. **Figure 1** displays the proposed locations of the four additional groundwater monitoring wells (MW-22 through MW-25).

For reference, the boring logs and well construction diagrams for wells and piezometers in closest proximity to the proposed wells (MW-19, MW-2N, MW-20, MW-3N, NE-13, and piezometer C4-PZ-1) are included in **Attachment 1**.

INSTALLATION

The target zone for the screened interval of the monitoring wells is the epikarst zone at the top of the bedrock (if encountered). Based on boring logs of nearby existing wells, we suspect that MW-24/MW-25 may be installed in the epikarst with the bottom depth installed to the top of the bedrock. However, in the MW-22/MW-23 vicinity, nearby wells did not encounter an epikarst zone; therefore, wells MW-22/MW-23 may be installed in bedrock (approximately 15 feet into bedrock).

For the four new groundwater monitoring wells, it is estimated that the screened interval will be located at an approximate depth of 85 feet below ground surface (ft bgs) for wells MW-22/MW-23, and an approximate depth of 55 ft bgs for wells MW-24/MW-25. For the bedrock wells, the bottom of the 10-foot screen will be placed approximately 15 feet below the encountered depth to water (i.e., approximately 10-15 feet into the bedrock), to allow for sufficient water to be present for future sampling activities. Actual depths may vary depending on topography and local variations in depth to target the stratum encountered in the field.

Drilling and well installation/abandonment will be performed by an Arkansas-licensed driller. To install the wells, the driller will advance borings and install the monitoring wells using sonic (rotary vibratory), air rotary, or

hollow-stem auger drilling methods. Each boring will be continuously sampled using core barrels or hollow-stem augers. Soils will be logged and classified according to the Unified Soil Classification System by a qualified geologist contracted separately by the facility. The wells will be constructed and developed in general conformance with American Society for Testing and Materials (ASTM) D5092 construction protocols and in accordance with US Environmental Protection Agency (EPA) (160014-891034) and Arkansas Water Well Construction Commission (AWWCC) guidance documents.

The equipment to be used for well installation will be cleaned and decontaminated prior to the first boring and between drilling locations.

Each groundwater monitoring well will have the following design components:

- The well borings will be advanced using sonic core barrels, hollow stem augers, or air rotary
 utilizing a sufficient diameter to maintain a minimum of 2 inches of annular space between the well
 casing and borehole wall.
- The polyvinyl chloride (PVC) well casing at each well will have a locking cap, which is vented to allow equilibration of water levels with atmospheric pressure.
- The top of casing at each well will be permanently marked, or notched, for future use as a reference point for water-level measurements.
- Each monitoring well will be secured at the surface with a locking, protective steel or aluminum casing; concrete pad; and protective pipe bollards. A weep hole will be drilled in the protective casing approximately 6 inches above ground surface to allow for drainage.
- The monitoring well identifications will be clearly marked on the outside protective casings.
- Well casings and screens will be constructed of 2-inch-diameter, Schedule 40 PVC with flush-threaded casing; a 10-ft long, 10-slot (i.e., 0.010-inch) well screen; and a bottom end cap.
- A filter pack consisting of well-rounded, 10- to 20-silica sand will be placed in the annular space to a minimum distance of 3 ft above the top of the screen.
- The annular space above the filter pack will be completed with a sealant consisting of a minimum of 3 ft of bentonite pellets. The bentonite seal will be followed by a well-mixed bentonite cement grout filled to the ground surface and installed using a tremie pipe.

Slight adjustments to well construction may be required in the field based on the observed lithology at each well location. Any deviations from well design will conform to recommendations in the above-referenced guidance documents.

WELL DEVELOPMENT

The new groundwater monitoring wells will be developed to the degree necessary to restore formation hydraulic conductivity and to yield low-turbidity samples that are representative of formation groundwater quality. Each well will be developed by means of mechanical surging and over-pumping using a submersible pump and surge block. Groundwater will be monitored for depth to water and turbidity. Field readings will continue until the water removed is visibly free of silt and sand and turbidity readings are below 10 nephelometric turbidity units (NTUs), where practical.

WELL SURVEY

An Arkansas-licensed surveyor will survey the horizontal and vertical location of each new monitoring point. The vertical locations of each water-level-measurement reference point on the top of PVC casing will be surveyed to the nearest 0.01 ft, with the horizontal locations surveyed to the nearest 0.1 ft. The vertical locations of the top of concrete and nearest ground surface will be surveyed to the nearest 0.1 ft.

The survey report will include horizontal and vertical coordinates based on the landfill's site-referenced coordinate system, which is based on established site-specific benchmarks.

INSTALLATION REPORT

Within 60 calendar days of completion of the proposed field work, a report will be submitted documenting field activities. The report will be certified by the supervising professional per Regulation 22.1103(f) and will include the following:

- A site map that includes the surveyed locations of the newly installed monitoring points,
- Boring logs and construction diagrams for the new monitoring points,
- Well development records,
- Summary of work quality and methods, and
- The certified survey report from an Arkansas-licensed surveyor containing vertical and horizontal location coordinates for the newly installed monitoring points.

If you have any questions or comments, please contact me at steve.jett@jettenviro.com or 314-496-4654.

Sincerely,

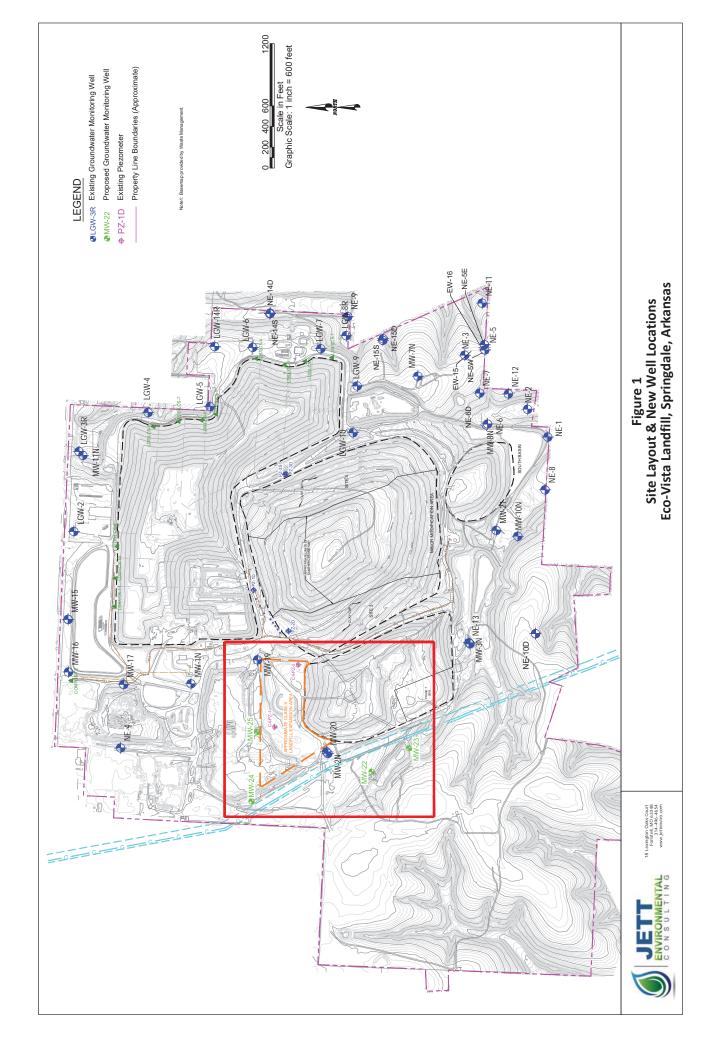


Steve Jett, P.G. No. 1826 Owner

Attachments: Figure 1 – Site Layout & Proposed Well Locations

Attachment 1 - Boring Logs & As-Builts

cc: Jodi Reynolds – WM (PDF via Email) Dave Conrad – WM (PDF via Email) Michael Caldwell – WM (PDF via Email)

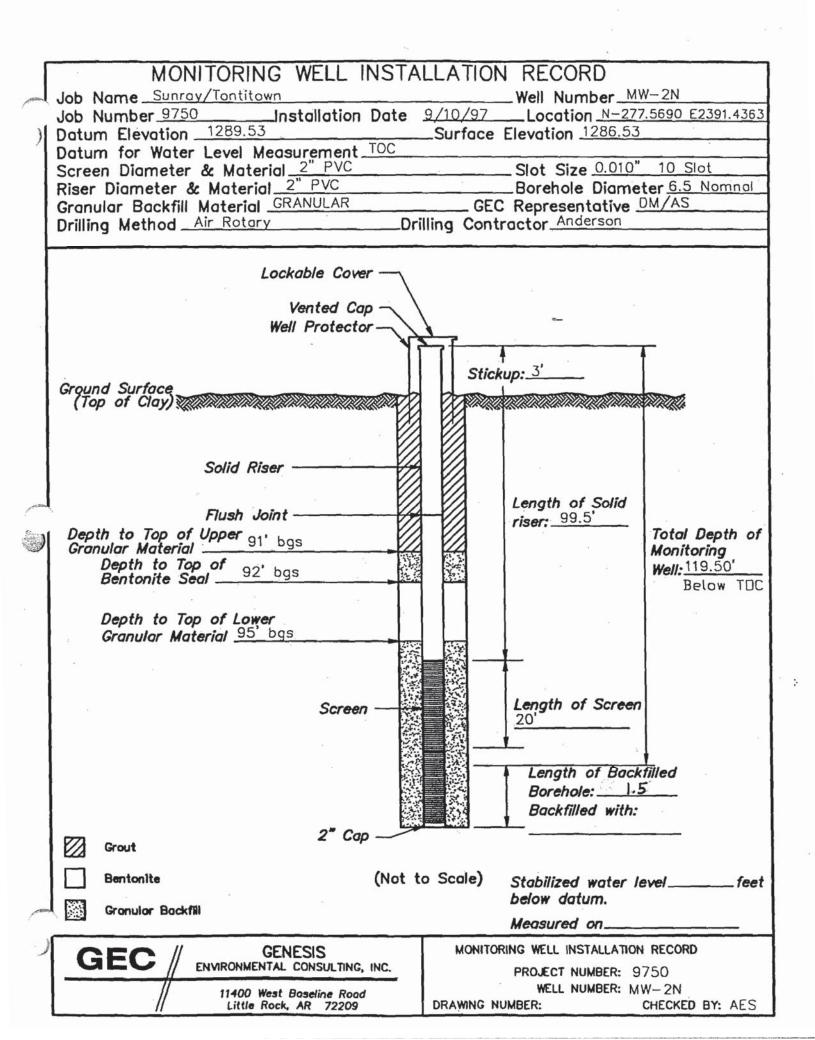


| | | | | DDO | IECT. | BODING I | ١٠ | | WELL ID: |
|---------------------|-------------|--------------|---------------------------------------|-------------|--|---------------------------------------|-------------------------|---------------------|---|
| | | | | | JECT: o-Vista, LLC Class 4 Landfill GHI | BORING II | | | WELL ID: C4-PZ-1 |
| | | | | | | | | | EASTING, FT SRC: |
| | | | | | | | 9, FT SRC . 9 | : | 644512.2 |
| DRILLING CONTRACTOR | | | | | | GROUND S | SURFACE | , FT SRE: | TOC MP, FT SRE: |
| | | | П | | lker-Hill Environmental, Inc. | 1269.4 | | | 1272.68 |
| | As | sociat | es Itd. | | LING EQUIPMENT: | WELL DEF | TH, FT BE | LOW MP: | |
| water resou | rces / envi | ronmental co | nsultants | | sa-Drill VersaSonic | 62.4 | | | 2/23-27/2021 |
| FTN P R0682 | | | | | LING METHOD: nic with 4x6 in dia. core and case in soils an | d air rota | ry in be | drock | |
| LOGGE | ED BY | ·: | | | PLING METHOD: ntinuous with 10 ft, 4 in dia. core barrel in soi | l and 10 f | t HQ cor | e barrel | in bedrock |
| | | | | | | | | | |
| (fee | REC | nscs | ida | Log | Description | | | We | |
| Depth (feet) | % E | SN | Ċ. | Description | | | (| Constr | uction |
| | | | | | | F | | | ound completion including 3x3 ft |
| _ | | | | | | | | | pad, four pipe bollards, and uter aluminum casing |
| 0 — | | | | | GRAVELY FAT CLAY, reddish brown, with red staining | 111/1 | 11,11 | 52.1 ft of | 2 in dia., Sch. 40 PVC solid riser, |
| _ | | | | | along fractured chert gravel, soft, moist. | \otimes | \otimes | including | 3.3 ft of stickup |
| | | CH | | | | \otimes | \otimes | | |
| - | 63 | | | | | \otimes | \otimes | | |
| - | | CL | | | GRAVELY LEAN CLAY, reddish brown, increasing | - 🛞 | \otimes | | |
| | | OL | 1/0 | 1 | chert with depth, soft, moist. | \blacksquare | \otimes | | |
| | | | 0/ | 0/0 | CLAYEY GRAVEL, reddish brown, dense, moist. | \otimes | \otimes | | |
| 10 — | | GC | 16% | 6% | | \otimes | \otimes | Cement/b | pentonite grout from 1.5 ft bgs to |
| - | | | /0/ | 10/ | | \otimes | \otimes | 21.0 ft bg | s |
| | 60 | | 1/0 | /6/ | | \otimes | \otimes | | |
| - | | GC | 3/1 | | CHERT, white, 14-14.5 ft bgs. | | \otimes | | |
| - | | GC | 0/0/ | /0/ | CLAYEY GRAVEL, reddish brown, dense, moist. CHERT, white, 16-16.5 ft bgs. | - | \otimes | | |
| _ | | GC | /0/ | 10) | CLAYEY GRAVEL, reddish brown, dense, moist. | \simeq | ⊗ | | |
| | | CL | | | GRAVELY LEAN CLAY, reddish brown, soft, moist. | \otimes | \otimes | | |
| 20 — | | OL | | | | \otimes | \otimes | | |
| - | | | | | GRAVELY FAT CLAY, reddish brown, soft, moist. | | 9 | | |
| | 65 | СН | | | | | | | |
| - | | | | | | | | Bentonite ft bgs | e chip seal from 21.0 ft bgs to 38.0 |
| - | | | ## | | WEATHERED CHERT/EPIKARST, chert is weathered | | | lit bgs | |
| _ | | | 太太 | ·4 | into a silty gravel, white with black staining, moist. | | | | |
| | | | 人人 | ·太 | | | | | |
| 30 — | | | 太公 | · A. | | | | | |
| - | | | 1 | 4 | | | | | |
| | 80 | | | 1 | | | | | |
| | | | 7.4 | 4 | | | | | |
| - | | | 某件 | 4 | | | | | |
| _ | | | ** | 4 | | | | | |
| | 60 | | ### | 4 | | | | | |
| 40 — | | | 71 71 | 7 7 | LIMESTONE AND CHERT, interbedded, competent, limestone is white to | | | Slow-rele | ase bentonite pellet seal from |
| - | | | 4 | 4 | gray, chert is white to bluish gray, stylolite's throughout. @ 40.5-47.5 ft bgs, RQD 70%, 2-42° off horizontal. @ 40.5-46 ft bgs no air loss. | | | 38.0 ft bg | s to 44.9 ft bgs |
| | | | 1 | 1 | @ 40-3-5 ft bgs air loss and bit drop. @ 46-47.5 ft bgs air loss and bit drop. @ 47.5 ft drill rig and air compressor were shut off and the boring | | | Depth to | water: 43.7 ft bgs (3/15/2021) |
| | 86 | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | I A | was allowed to equilibrate for 15 minutes. Water level was measured at 42.8 ft bgs. | // | | | - , , |
| | | | 1 4 | 4 | • | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | |

NOTES: Horizontal and vertical data are based on the Mason Surveying & Consulting, Inc. report dated March 4, 2021. SRE=site referenced elevation, SRC=site referenced coordinates, TOC=top of casing, MP=surveyed measuring point on TOC.

1 of 2

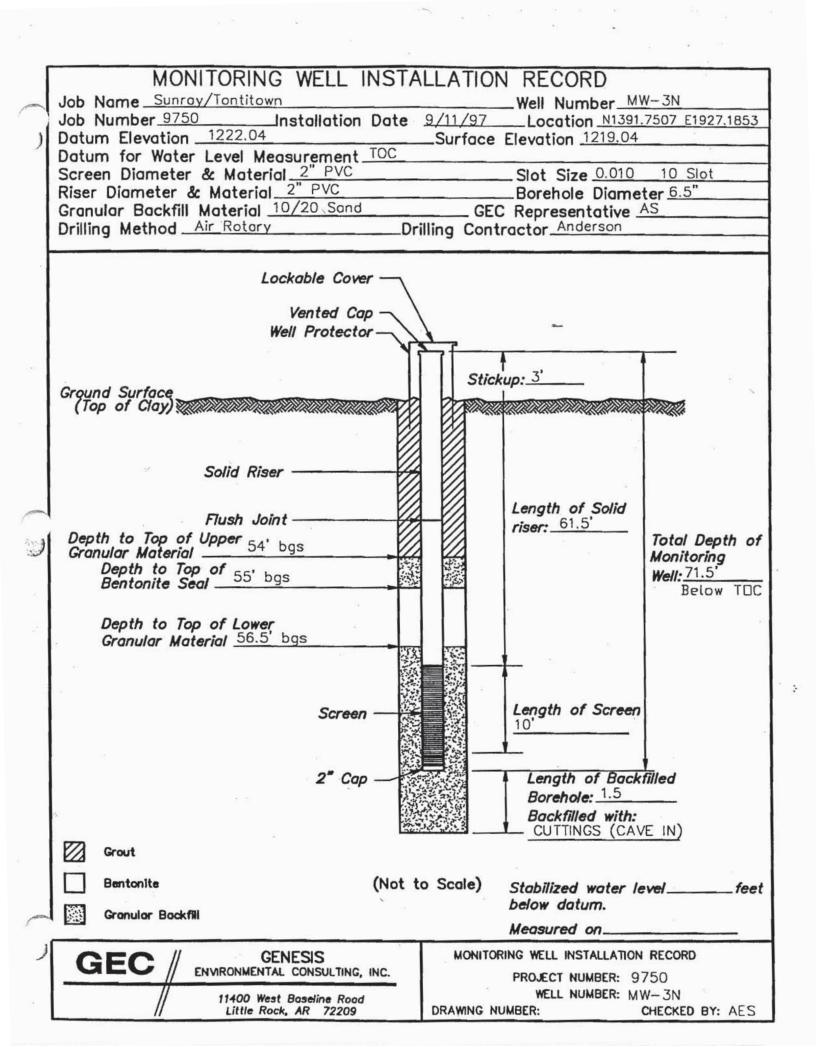
| | | | | | JECT: | BORING ID: | | WELL ID: |
|--------------|----------|--------------|---------------------------------------|-----------|---|-----------------------|-----------|--------------------------------------|
| | | | | | o-Vista, LLC Class 4 Landfill GHI | C4-PZ-1 | | C4-PZ-1 |
| | <u> </u> | | | LOCATION: | | NORTHING, FT SRC: | | EASTING, FT SRC: |
| | | | | Ecc | o-Vista, LLC Landfill, Tontitown, AR | 664704.9 | | 644512.2 |
| = | | 2 | | | LING CONTRACTOR: | GROUND SURFACE, FT | ΓSRE: | TOC MP, FT SRE: |
| | | | П. | Wa | lker-Hill Environmental, Inc. | 1269.4 | | 1272.68 |
| | | | | DRIL | LING EQUIPMENT: | WELL DEPTH, FT BELC | W MP: | INSTALLATION DATES: |
| | AS | SOCIOT | es lia. | Ver | sa-Drill VersaSonic | 62.4 | | 2/23-27/2021 |
| | | ronmental co | DIISUILAIILS | DRIL | LING METHOD: | | | |
| | Project | | | Sor | nic with 4x6 in dia. core and case in soils an | d air rotary in bedro | ock | |
| LOGG | ED BY | | | SAMI | PLING METHOD: | | | |
| AJP | | • | | Con | ntinuous with 10 ft, 4 in dia. core barrel in soi | and 10 ft HQ core I | barrel | in bedrock |
| eet) | 0 | " | | ٥ | | | We | AII |
| h (fe | REC | nscs | 2 | Log | Description | | | |
| Depth (feet) | % | Š | Ċ | 5 3 | Becompaign | Co | onstr | uction |
| ٣ | | | | | @ 47.5-53.5 ft bgs, RQD 5.6% and should be considered questionable | | | |
| | | | | | @ 47.5-33.5 it bgs, RQD 5.6% and should be considered questionable due to poor recovery. @ 47.5-49 ft bgs air loss and bit drop. | | | |
| | | | | 1 | @ 49-53.5 ft bgs air loss. @ 53.5 ft due to very slow drilling, the drill rig and air compressor | | | |
| 50 - | 33 | | \ \bar{\bar{\bar{\bar{\bar{\bar{\bar{ | À Į | were shut off and the sample core was pulled. Reddish brown clay was found inside the sampler and is thought to have | | | e 20/40 filter pack from 44.9 ft bgs |
| | | | 4 | 1 4 | prevented retrieval of a sample. The boring was allowed to equilibrate for 15 minutes. Water level was measured at 44.3 ft | to | 59.0 ft | bgs |
| | | | 4 | 4 | bgs. | | | |
| ' | 1 | | 4 | | @ 53.5-59 ft bgs, RQD 87%, fractures 2-43° off horizontal. @ 53.5-59 ft bgs, air loss. | | | |
| | 100 | | 4 | 4 | @ 59 ft drill rig and air compressor were shut off and the boring was allowed to equilibrate for 15 minutes. Water level was | | | 2 in dia., 0.010 in slot, Sch. 40 |
| | 100 | | 4 | | measured at 44.2 ft bgs. | | VC scre | een |
| | + | | | 1 | | | .23 ft, 2 | in dia., Sch. 40 PVC end cap |
| 60 - | | | | | | | | erminated at 59.0 ft bgs |
| 00 | | | | | | | | |
| - | - | | | | | | | |
| | | | | | | | | |
| | 1 | | | | | | | |
| - | - | | | | | | | |
| | | | | | | | | |
| ' | 1 | | | | | | | |
| 70 - | - | | | | | | | |
| | | | | | | | | |
| Ι. | 1 | | | | | | | |
| | - | | | | | | | |
| | | | | | | | | |
| - | 1 | | | | | | | |
| | 4 | | | | | | | |
| | | | | | | | | |
| 80 – | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| ' | | | | | | | | |
| |] | | | | | | | |
| | | | | | | | | |
| - | | | | | | | | |
| 90 - |] | | | | | | | |
| 90 - | | | | | | | | |
| | - | | | | | | | |
| | | | | | | | | |
| ' | 1 | | | | | | | |
| | | | | | | | | |



| | | 2 | | (4) | | |
|--------------------|---|-----------------------------|-------------------|----------------------------|--|--|
| Boring #: MW-2N | N CENESIS | Location: N - | -277.569 | 90 E 2391.4363 | | |
| Date: 9/15/97 | GEC # GENESIS ENVIRONMENTAL CONSULTING, INC. | Drilling Method: AIR ROTARY | | | | |
| :levation: 1286.53 | 11400 West Baseline Rood Little Rock, AR 72209 | Driller: ANDERSON DEAN/GRAY | | | | |
| Job No.: 9750 | , | Logged By: D | | (pq.1) | | |
| Elev. Depth | Classification | Lithology Sai | mple or ox No. | Remarks | | |
| | LESS CHERT 69.5' BEDROCK SOFT CHALKY LIMESTONE | | | AIR ROTARY TRI CONE BIT | | |

:

| | | | | | | <u> </u> | | | |
|----------|----------|--|---|--|-----------------------------|--------------------------------|--|--|--|
| | - | #: MW-2N | CENESIS | Location: N -277.5690 E 2391.4363 Drilling Method: AIR ROTARY | | | | | |
| - | Date: 9/ | Committee of the last of the l | GEC ENVIRONMENTAL CONSULTING, INC. | | | | | | |
| A Second | | n: 1286.53 | // 11400 West Boseline Rood Little Rock, AR 72209 | | Driller: ANDERSON DEAN/GRAY | | | | |
| | Job No.: | 9750 | | Logged B | | (pg.2) | | | |
| | Elev. | Depth | Classification | Lithology | Somple or Box No. | Remarks | | | |
| | | | HARD LIMESTONE CHERT INCREASE DRY 102'-108' SMALL FRACTURE SOME WATER TD 118' | | | NEW BIT REAM HOLE TO 6 1/2" | | | |



| Company of the Compan | V-3N CEO // CENESIS | Locotion. | N 1391./50/ | E 1927.1853 | | | |
|--|---|-----------------------------|----------------------|-------------|--|--|--|
| Date: 9/10/97 | GEC GENESIS ENVIRONMENTAL CONSULTING, INC. | Drilling Method: AIR ROTARY | | | | | |
| :levation: 1219.04 | 19.04 Interest Boseline Rood Little Rock, AR 72209 | Driller: AN | | | | | |
| Job No.: 9750 | | Logged B | | (pq.1) | | | |
| Elev. Depth | epth Classification | Lithology | Sample or Box No. | Remarks | | | |
| | MED PLASTIC MORE LIMESTONE (15'-18') WEATHERED, SOME CHERT DRY 26' CLAY BALLS, SOME CHERT, CLAY SILTY MED PLASTIC, MOIST -30 37' RED SILTY CLAY W/CHERT AND LS VERY MOIST -40 -50 55' 1 FT LS/CHERTY 58' BACK ONTO ROCK 61' HIT H20, SOME PRODUCTION SMALL FRACTURES 65' INCREASED CHERT, SLOWER DRILLING GOOD H20 68' CHERT STILL CAUSING SLOW DRILLING 68.5' VERY HARD CHERT | | - | | | | |

Boring No.: MW-19 **Field Boring Log** Date Drilled: 5/7/2015 Proj. No.: 14-045 Client: Waste Management-EcoVista Logged By: Mark Witherspoon 7529 Counts Massie Road "North Little Rock, Arkansas 72113 Total Depth: 80 ft below ground surface (bgs) Phone (501) 812-4551 " www.chimrockconsulting.com Drilling Method: 6" Air Rotary Drilling Co.: Anderson Engineering Sampling Method: cuttings Driller: Jacob Summers Rig Type: Ingersol Rand T3W Location: Tontitown, AR Page: 1 Northing: 664866.93 Easting: 645156.17 Elevation: 1291.01 (ground surface) **COMMENTS** Lithologic Description Litho. Symbol WELL CONSTRUCTION DETAILS Top of Casing Elevation 0.00 1293.90 Silty Clay Topsoil; organics Ground surface elevation 1291.01 5.00 6" diamater borehole 10.00 10 2" diameter Schedule 15.00 15 40 PVC casing Bentonite chip seal 20.00 20 25.00 25 30 30.00 Cherty Clay; red, clay to chert content varies 35.00 35 40.00 40 45 45.00 50.00 50 55.00 55 Competent Bedrock at 61' 60 60.00 #20/40 silica sand filter pack 2" diameter, 0.010" 65.00 65 Stable Water at 68' bgs slot, Schedule 40 PVC after 24 hrs screen 70.00 Limestone, Gray 75.00 75 80.00 2" diameter Schedule Total Depth = 80ft bgs 40 PVC end cap

Boring No.: MW-20 **Field Boring Log** Date Drilled: 5/7/2015 Proj. No.: 14-045 Client: Waste Management-EcoVista Logged By: Mark Witherspoon 7529 Counts Massie Road "North Little Rock, Arkansas 72113 Total Depth: 80 ft below ground surface (bgs) Phone (501) 812-4551 " www.chimrockconsulting.com Drilling Method: 6" Air Rotary Drilling Co.: Anderson Engineering Sampling Method: cuttings Driller: Jacob Summers Location: Tontitown, AR Rig Type: Ingersol Rand T3W Page: 1 Northing: 664200.97 Easting: 644267.35 Elevation: 1286.13 (ground surface) Litho. Symbol COMMENTS WELL CONSTRUCTION DETAILS Lithologic Description Top of Casing 0.00 Elevation 1289.48 0 Ground surface elevation Silty Clay Topsoil; organics 1286.13 5.00 6" diamater borehole 10.00 10 2" diameter 15.00 15 Schedule 40 PVC casing Bentonite chip seal 20.00 20 25.00 25 30.00 30 Cherty Clay; red, clay to chert content 35.00 35 varies 40.00 40 45.00 45 50.00 50 55.00 55 60.00 60 #20/40 silica sand 65.00 65 Stable water at 69' bgs filter pack Competent Bedrock at 69' after 24 hrs 2" diameter, 0.010" 70.00 slot, Schedule 40 PVC screen Limestone, Gray 75.00 75 80.00 80 2" diameter Total Depth = 80 bgs Schedule 40 PVC

end cap

| SC | SENG | INEERS | LOG OF BORIN | NG NO.: NE- | -13 | | SHEET NU | JMBER: 1 of 2 | |
|---------------|-------------------------------------|---|---|----------------|---------------|-------------------|--|--------------------------------|--|
| | 11219 Richo | ardson Drive | | | rv Mover | ·s | SURFACE FLEVATION: 1.2 | SURFACE ELEVATION: 1217.4 fmsl | |
| | North Little | e Rock, AR | DRILLER: Gary Moyers DRILLING RIG: CME-55 Rig | | | TOC ELEVATION: 12 | | | |
| (| CLIENT: Waste Ma | · · · · · · · · · · · · · · · · · · · | | METHOD: HS | | | WELL DEPTH COMPLETION: 40 | | |
| | | V&E Investigation | DRILLING CON | | | | LOCATION: | | |
| | PROJECT NUMBER: 27216360.00 | | | | ineering | | NORTHING: 66282 | | |
| | ATION: EcoVista Lo | CAMBUNIC | | nsultants, | inc. | EASTING: 64532 | | | |
| | DGIST: Robert Fov DATE: 12/29/20 | | SAMPLING | DIAMETER: 8.2 | 5" | | WATER LEVEL: NA WATER ELEVATION: NA | | |
| | DATE: 12/29/20 | | | DIAMETER: 0:2 | .5 | | WATER LEVEL DATE: 12 | | |
| DEPTH (FT) | LITHOLOGY | LITHOLOGY DESCRIPTION | RECOVERY (%) | MONITORING WEL | L CONSTRUCTIO | N | MONITORING WELL DESCRIPTION | ELEVATION (FMSL) | |
| 0 | | | | | | (I | Stick Up (2.73 ft) Concrete Pad Approximately 6") | 1220 | |
| 5 — | Silty Clay | Silty Clay; reddish brown with chert gravels | | | | grou | tonite pellet seal from nd surface to 28.81 ft bgs d pack from 28.81 to 40.81 ft bgs | | |
| 15 | Chert | Chert; hard white | | | | | dia. Sch. 40 PVC soild iser 0-30.48 ft bgs | 1200 | |
| 20 | | Silty Clay; reddish brown | | | | | | - - - - | |
| | Silty Clay | with chert gravels | | | | | | — 1196 — — — | |
| 25 — | Chert | Chert; hard white | | | | | | 1192 | |

| S | CS ENG | SINEERS | LOG OF BORIN | NG NO.: NE-13 | | SHEET NU | JMBER: 2 of 2 |
|----------------|---|---|--------------|--|----|---|--------------------------|
| | | ardson Drive | DOULTD C 44 | | | SURFACE ELEVATION: 12 | 17.4 fmsl |
| | North Little | e Rock, AR | DRII | DRILLER: Gary Moyers LLING RIG: CME-55 Rig | | TOC ELEVATION: 12 | |
| | CLIENT: Waste Ma | nagement | | METHOD: HSA | | WELL DEPTH COMPLETION: 40 | |
| | JECT NAME: Eco Vista N | • | DRILLING CON | ITRACTOR: Anderson | | LOCATION: | |
| | CT NUMBER: 27216360 | | | Engineering | | NORTHING: 66282 | |
| | LOCATION: EcoVista Lo | | 6444844 | Consultants, Inc | с. | EASTING: 64532 | |
| | GEOLOGIST: Robert Fov | | | METHOD: Cuttings | | WATER LEVEL: NA | |
| | START DATE: 12/29/20 FINISH DATE: 12/29/20 | | | DIAMETER: 8.25" . DIAMETER: 2" | | WATER ELEVATION: NA WATER LEVEL DATE: 12 | |
| DEPTH (FT) | LITHOLOGY | LITHOLOGY DESCRIPTION | RECOVERY (%) | MONITORING WELL CONSTRUCTION | | MONITORING WELL DESCRIPTION | ELEVATION (FMSL) |
| 30 — 35 — 40 — | Silty Clay | Silty Clay; reddish brown with chert gravels | | | • | 10 ft of 2 in dia, forated Sch. 40 PVC screen End Cap TD - 40.81 ft bgs | 1188 1188 1184 |