ATTACHMENT 2B*
PROPOSED WELL DESIGN (INCLUDED ON THUMB DRIVE)
East Property
Groundwater Hydraulic Barrier Design

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Prepared for Project Navigator, LTD (Trustee) By:

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Soil Boring Results
GHB WELL EP-163 - DRAFT WELLHEAD DESIGN
PROFILE VIEW

NOT TO SCALE

EXISTING CONCRETE VAULT BOX W/ LID
FLANGED WELLHEAD WITH THREADED HOLES FOR SEATED PASS-THROUGHS.
WATER LEVEL GAUGING HOLE W/ THREADED PLUG, RELEASE VALVE IF NEEDED

MIN 36"

2" PVC DISCHARGE TO TANK

1/4" TO 2" FITTING AS NEEDED

PITLESS ADAPTER
1/4" PUMP DISCHARGE

TRANS DERR AD AND LEVEL SWITCH CABLES

INJECTION BOX INSTRUMENT TABLES

POWER CONDUIT FROM PANEL

INSTRUMENTATION FROM PANEL

TRANS DERR AD AND LEVEL SWITCH CABLES

MIN 24" (REF PAGE E-2)

NOTES

1. INSTRUMENTATION WILL BE SUBMERSIBLE WITH REMOTE VIEWING AT PANEL
GHB WELLHEAD SKETCH

NOT BY SCALE

EXISTING CONCRETE VAULT BOX WILRD

FLANGED WELLHEAD

DISCHARGE TRENCH
BY CES

BEND TO BELOW GRADE

PITLESS MORTAR

GHB

E-3 SHEET FOR INSTRUMENT CABLES

CONDUIT TRENCH

FLANGE LEADS IN FLEXIBLE CONDUIT TO WELLHEAD PASS THROUGH

JUNCTION BOX
DEPTH -0.5' TOP OF CASING (APPROXIMATE)

DEPTH 0 GROUND SURFACE

DEPTH 2' TOP OF BENTONITE SEAL

DEPTH 18' TOP OF FILTER PACK

DEPTH 29' CURRENT STATIC WATER LEVEL

DEPTH 45' LOW LEVEL SWITCH (APPROXIMATE)

DEPTH 50' PRESSURE TRANSDUCER (APPROXIMATE)

DEPTH 54' TOP OF PUMP

DEPTH 58' BOTTOM OF WELL

FLANGED WELLHEAD WITH THREADED HOLES FOR SEALED PASS-THROUGHS. WATER LEVEL GAUGING HOLE WITH THREADED PLUG, AIR RELEASE VALVE IF NEEDED

DISCHARGE PIPE TO WELL VAULT INSTRUMENTATION

(CURRENT DRAFT WELLHEAD DESIGN SKETCH)

CEMENT GROUT

PITLESS ADAPTER

4" SCHEDULE 40 PVC WELL CASING

BENTONITE GROUT

3/8-INCH BENTONITE CHIPS

ELECTRICAL TAPE TO KEEP LEVEL SWITCH CABLES UNTANGLED IN WELL (TYP. EVERY 5 FEET)

4" SCHEDULE 40 PVC SCREEN SLOT SIZE 20

10/20 SILICA SAND

INSTALL HIGH LEVEL SWITCH BELOW STATIC WATER LEVEL (FLOWLINE MODEL #LV10–1301 OR SIMILAR)

1-1/4-INCH GALVANIZED DISCHARGE PIPE

INSTALL LOW LEVEL SWITCH AT TOP OF PUMP (FLOWLINE MODEL #LV10–1301 OR SIMILAR)

INSTALL PRESSURE TRANSDUCER BELOW LOW LEVEL SWITCH (LOCATION TO BE DETERMINED DURING STARTUP TO OBTAIN DESIRED FLOW RATE OF 15 GPM)

4" SUBMERSIBLE PUMP, XYLEM

MODEL 25GS10. 1 HP, 3 PHASE,

230V MOTOR, INSTALL PUMP 2 FEET OFF WELL BOTTOM

NOT TO SCALE
Enduraplas

EVT 10000 - 144 inch

Units: INCHES

Tolerances:
- Fractional
- Angular: Mach 1
- Bend: 1
- Three Place Decimal
- Two Place Decimal

Interpret Geometric Tolerancing Per:
- Material
- Finish

Drawn: DNS 9/6/11
Checked: 
ENG APPR: 
MFG APPR: 
Q.A.:

Comments:

Not Asdy

Used On

Finish

Application

Do Not Scale Drawing

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