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Material	Stainless Steel
Style	Submersible
Item Dimensions LxWxH	27 x 13 x 17 inches
Power Source	Ac/dc

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### About this item

- Submersible Water Well Pump
- 5 GPM
- 1/2 HP
- 3 WIRE

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**Date:** August 3, 2022  
**Prepared For:** **Environmental Resources Management**  
Shawn Wiggins / Lance Cooper  
3838 N.Causeway Blvd. Suite 3000  
Covington, LA 70002

**Prepared By:** **Diversified Enviro Products & Services, Inc**  
**Reference:** Soil Treatment / Soil Excavation / Soil Restoration  
**Job No:** DIV  
**Site Names:** Henning Management  
**Site Location:** Calcasieu Parish, Louisiana

Mr. Wiggins / Mr. Cooper:

Below you will find the cost estimates and high level scopes to execute the site restoration work on the Henning Management Property located in Calcasieu Parish, LA. The work scope includes:

- **Area #2 (H-9 & H-12 Locations)**
  - Excavation of 751 cu yds clean overburden / placement back into excavation during backfill ops
  - Excavation of 1,502 cu yds impacted material, blending of amendments, placement into excavation
  - Excavation / handling of 448 cu yds material for sloping / benching activities, placement back into excavation
- **Area #5 (H-1 Location)**
  - Excavation of 249 cu yds clean overburden / placement back into excavation during backfill ops
  - Excavation / Disposal of approximately 249 cu yds impacted soil
  - Delivery / placement of approximately 299 cu yds clean fill material
  - Excavation / handling of 224 cu yds material for sloping / benching activities, placement back into excavation
- **Area #5 (H-17 Location)**
  - Excavation of 1,181 cu yds clean overburden / placement back into excavation during backfill ops
  - Excavation of 2,361 cu yds impacted material, blending of amendments, placement into excavation
  - Excavation / handling of 1,054 cu yds material for sloping / benching activities, placement back into excavation
- **Area #5 (H-18, H-18NW, H-19 Locations)**
  - Excavation of 866 cu yds clean overburden / placement back into excavation during backfill ops
  - Excavation of 2,599 cu yds impacted material, blending of amendments, placement into excavation
  - Excavation / Disposal of approximately 13,864 cu yds impacted soil
  - Delivery / placement of approximately 16,637 cu yds clean fill material
  - Excavation / handling of 5,126 cu yds material for sloping / benching activities, placement back into excavation

- **Area #4 (H-21 Location)**
  - Excavation of 164 cu yds clean overburden / placement back into excavation during backfill ops
  - Excavation of 821 cu yds impacted material, blending of amendments, placement into excavation
  - Excavation / Disposal of approximately 986 cu yds impacted soil
  - Delivery / placement of approximately 1,183 cu yds clean fill material
  - Excavation / handling of 811 cu yds material for sloping / benching activities, placement back into excavation
- **Area #4 (MW-6 Location)**
  - Excavation of 536 cu yds clean overburden / placement back into excavation during backfill ops
  - Excavation of 67 cu yds impacted material, blending of amendments, placement into excavation
  - Excavation / Disposal of approximately 67 cu yds impacted soil
  - Delivery / placement of approximately 80 cu yds clean fill material
  - Excavation / handling of 1,179 cu yds material for sloping / benching activities, placement back into excavation
- **Area #4 (H-16 Location)**
  - Excavation of 877 cu yds clean overburden / placement back into excavation during backfill ops
  - Excavation / Disposal of approximately 6,138 cu yds impacted soil
  - Delivery / placement of approximately 7,367 cu yds clean fill material
  - Excavation / handling of 7,822 cu yds material for sloping / benching activities, placement back into excavation
- **Area #4 (H-15 Location)**
  - Excavation of 679 cu yds clean overburden / placement back into excavation during backfill ops
  - Excavation of 679 cu yds impacted material, blending of amendments, placement into excavation
  - Excavation / Disposal of approximately 1,019 cu yds impacted soil
  - Delivery / placement of approximately 1,223 cu yds clean fill material
  - Excavation / handling of 1,142 cu yds material for sloping / benching activities, placement back into excavation

The cost and scope overview can be found on Page 3.

We estimate the total field scope of work can be completed in 201 days weather permitting The table below summarizes the anticipated scopes and cost to complete the project.

<b>Description</b>		<b>Total Cost</b>
1	Labor	\$565,920.00
2	Equipment (Excavators, Dozers, Track Trucks, Service Trucks, Side by Side ATV)	\$600,120.00
3	Per Diem (Meals/Lodging)	\$117,390.00
4	Diesel	\$87,750.00
5	Mob / Demob Heavy Equipment	\$6,000.00
6	Amendments	\$10,000.00
7	Clean Fill Material	\$428,624.00
8	Trucking of Impacted Soils to Disposal	\$1,054,000.00
9	Disposal of Impacted Material (WM-Carlyss)	\$2,701,083.00
	<b>Estimated Project Cost</b>	<b>\$5,570,887.00</b>

**NOTE: DISPOSING OF MATERAIL AT WM RELIABLE LANDFILL IN LIVONIA WOULD RESULT IN COST SAVINGS OF APPROXIMATELY \$1,696,548**

We appreciate the opportunity to provide you with this project overview and look forward to engaging in the project execution. Please contact me should you have any questions on this information or need further explanation to the work plan details.

Sincerely,

**Corey Gauthreaux**

Diversified Enviro Products & Services, Inc

(504) 415-5478



# Cost Proposal

PO Box 1147  
Foxworth, MS 39483

Date	Proposal #
2/10/2022	14741

Name / Address
ERM - ACCOUNTS PAYABLE CITY CENTRE FOUR 840 WEST SAM HOUSTON PARKWAY SUITE 600 HOUSTON, TX 77024

Re:
Environmental Services Henning Management Hayes, LA "Bell City"

Description	Unit	Qty	Rate	Total
Mobilize/Demobilize	lump sum	1	1,125.00	1,125.00T
DPT 3230 Rig & Crew for (1) 60'- 1" PVC well	per day	2	2,200.00	4,400.00T
* Daily rate NTE 10 hr. workday; Additional hrs. @ \$220.00 per hr.			0.00	0.00T
1" PVC Well Material	per ft.	50	5.00	250.00T
5'- 1" PVC Pre-Pack Screens	per each	2	175.00	350.00T
Per-Diem	per day	2	375.00	750.00T
Above Grade Surface Completion	per each	1	450.00	450.00T
ERM Project Code:				

Customer Acceptance of Cost Proposal

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_

\*Payment Terms NTE 30 days upon project completion.  
\*1.5% Interest will be charged monthly to all overdue invoices.

<b>Subtotal</b>	\$7,325.00
<b>Tax (0.0%)</b>	\$0.00
<b>Total</b>	\$7,325.00

Walker-Hill Environmental, Inc  
Foxworth, MS Office  
Phone: (601) 736-3500  
Email: eric@whenv.com



PO Box 1147  
 Foxworth, MS 39483

# Cost Proposal

Date	Proposal #
2/10/2022	14742

<b>Name / Address</b>
ERM - ACCOUNTS PAYABLE CITY CENTRE FOUR 840 WEST SAM HOUSTON PARKWAY SUITE 600 HOUSTON, TX 77024

<b>Re:</b>
Environmental Services Henning Management Hayes, LA "Bell City"

Description	Unit	Qty	Rate	Total
Mobilize/Demobilize	lump sum	1	1,125.00	1,125.00T
DPT Rig & Crew for P&A of (13) 1" PVC wells by attempting to pull/grouting	per day	2	2,200.00	4,400.00T
* Daily rate NTE 10 hr. workday; Additional hrs. @ \$220.00 per hr.			0.00	0.00T
Per-Diem	per day	2	375.00	750.00T
ERM Project Code:				

Customer Acceptance of Cost Proposal

\_\_\_\_\_  
 Authorized Signature Date

\*Payment Terms NTE 30 days upon project completion.  
 \*1.5% Interest will be charged monthly to all overdue invoices.

<b>Subtotal</b>	\$6,275.00
<b>Tax (0.0%)</b>	\$0.00
<b>Total</b>	\$6,275.00

Walker-Hill Environmental, Inc  
 Foxworth, MS Office  
 Phone: (601) 736-3500  
 Email: eric@whenv.com



# Cost Proposal

PO Box 1147  
 Foxworth, MS 39483

Date	Proposal #
7/14/2022	15471

<b>Name / Address</b>
ERM - ACCOUNTS PAYABLE CITY CENTRE FOUR 840 WEST SAM HOUSTON PARKWAY SUITE 600 HOUSTON, TX 77024

<b>Re:</b>
Environmental Services Henning Project Bell City, LA

Description	Unit	Qty	Rate	Total
Mobilize/Demobilize	lump sum	1	1,500.00	1,500.00T
Sonic Drill Rig & Crew for (1) up to 65'- 2" PVC well & (1) up to 65'- 4" PVC well	per day	2	6,500.00	13,000.00T
2" PVC Well Materials	per ft	65	16.00	1,040.00T
4" PVC Well Materials	per ft.	65	20.00	1,300.00T
Above Grade Surface Completion w/ Guard Post	per each	2	750.00	1,500.00T
Well Development	per hr	2	200.00	400.00T
55 Gallon Drums	each	10	80.00	800.00T
Per-Diem	per day	3	525.00	1,575.00T

Customer Acceptance of Cost Proposal	<b>Subtotal</b>	\$21,115.00
Authorized Signature _____ Date _____	<b>Tax (0.0%)</b>	\$0.00
*Payment Terms NTE 30 days upon project completion. *1.5% Interest will be charged monthly to all overdue invoices.	<b>Total</b>	\$21,115.00

Walker-Hill Environmental, Inc  
 Foxworth, MS Office  
 Phone: (601) 736-3500  
 Email: eric@whenv.com



# Cost Proposal

PO Box 1147  
Foxworth, MS 39483

Date	Proposal #
7/14/2022	15472

<b>Name / Address</b>
ERM - ACCOUNTS PAYABLE CITY CENTRE FOUR 840 WEST SAM HOUSTON PARKWAY SUITE 600 HOUSTON, TX 77024

<b>Re:</b>
Environmental Services Henning Project Bell City, LA

Description	Unit	Qty	Rate	Total
Mobilize/Demobilize	lump sum	1	1,500.00	1,500.00T
Sonic Drill Rig & Crew for (9) up to 45'- 4" PVC well	per day	4	6,500.00	26,000.00T
4" PVC Well Materials	per ft.	405	20.00	8,100.00T
Above Grade Surface Completion w/ Guard Post	per each	9	750.00	6,750.00T
Well Development	per hr	9	200.00	1,800.00T
55 Gallon Drums	each	25	80.00	2,000.00T
Per-Diem	per day	5	525.00	2,625.00T

Customer Acceptance of Cost Proposal

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_

\*Payment Terms NTE 30 days upon project completion.  
\*1.5% Interest will be charged monthly to all overdue invoices.

<b>Subtotal</b>	\$48,775.00
<b>Tax (0.0%)</b>	\$0.00
<b>Total</b>	\$48,775.00

Walker-Hill Environmental, Inc  
Foxworth, MS Office  
Phone: (601) 736-3500  
Email: eric@whenv.com





# Cost Proposal

PO Box 1147  
 Foxworth, MS 39483

Date	Proposal #
7/14/2022	15473

<b>Name / Address</b>
ERM - ACCOUNTS PAYABLE CITY CENTRE FOUR 840 WEST SAM HOUSTON PARKWAY SUITE 600 HOUSTON, TX 77024

<b>Re:</b>
Environmental Services Henning Project Bell City, LA

Description	Unit	Qty	Rate	Total
Mobilize/Demobilize	lump sum	1	1,200.00	1,200.00T
3230 Drill Rig & Crew for (1) up to 45'- 4" PVC well	per day	1	3,500.00	3,500.00T
4" PVC Well Materials	per ft.	45	20.00	900.00T
Above Grade Surface Completion w/ Guard Post	per each	1	750.00	750.00T
Well Development	per hr	1	200.00	200.00T
55 Gallon Drums	each	5	80.00	400.00T
Per-Diem	per day	2	525.00	1,050.00T

Customer Acceptance of Cost Proposal

\_\_\_\_\_  
 Authorized Signature Date

\*Payment Terms NTE 30 days upon project completion.  
 \*1.5% Interest will be charged monthly to all overdue invoices.

<b>Subtotal</b>	\$8,000.00
<b>Tax (0.0%)</b>	\$0.00
<b>Total</b>	\$8,000.00

Walker-Hill Environmental, Inc  
 Foxworth, MS Office  
 Phone: (601) 736-3500  
 Email: eric@whenv.com

**Date:** February 24, 2022  
**Prepared For:** Environmental Resources Management  
 Lance Cooper

**Prepared By:** Diversified Enviro Products and Services, Inc.  
**Reference:** NORM Tubular Removal  
**Job No:** DIV  
**Site Names:** Henning Management  
**Site Location:** Calcasieu Parish, Louisiana

Mr. Cooper:

Below you will find the cost estimates and high level scopes to execute the NORM Regulatory process for removal of NORM impacted tubulars at the Henning Management property in Calcasieu Parish, LA. The work scope includes:

- o NORM Survey of Area
- o Drafting / Submittal of NORM Assessment Report / RPD-36 (Site Registration) / RPD-35
- o Bag/Tag/Ship NORM tubulars to decon/disposal
- o NORM Release Survey of Area
- o Drafting / Submittal of NORM Release Survey and RPD-36 (Site Release)

We estimate the total field scope of work for remaining task can be completed in 3 days weather permitting.

The table below summarizes the anticipated scopes and cost to complete the project.

<b>Description</b>		<b>Total Cost</b>
1	Field NORM Assessment / Regulatory Reporting / Authorizations	\$3,000.00
2	Bag / Tag / Ship Tubulars to Designated Facility / Conduct Release Survey of Area	\$5,000.00
3	Regulatory Release Reporting / Submittals	\$2,000.00
<b>Estimated Project Cost</b>		<b>\$10,000.00</b>

We appreciate the opportunity to provide you with this project overview and look forward to engaging in the project execution. Please contact me should you have any questions on this information or need further explanation to the work plan details.

Sincerely,

**Corey Gauthreaux**

Diversified Enviro-Products & Services

(504) 415-5478

**Phone Memo**

---

**To** Calvin Barnhill and Phil Amy/Northstar

---

**From** Lance Cooper

---

**Date** 20 April 2021 1400 hrs

---

**Reference** 0519829

---

**Subject** Phone Conversation regarding SWD costs [Add subject]

---

LC called CB and PA to discuss cost estimates for pumps, piping and SWD completion for hypothetical plan for JLS.

Pump type for SWD: Triplex positive displacement pump (Wheatley or equivalent, ~70 hp)

Pump costs: \$20K

Total pump costs: \$30K for pump, engine, and Nowata filter

Replacement: Once during the 30 year life

O&M: \$50k over the life of the system

Installation depth: 200' below the USDW, clean water sand, low gamma, good SP

Review SONRIS, find USDW, review depths of nearby wells, scale costs that we received from Peak Energy to account for shallower depth.

MP&A Record of CommunicationWork Order # 07 - 47Day & Date: Monday, 6/2/14Time: 1110: (a) am / pmPhone Conversation Logged by MP&A Employee: L Cooper w/ M PisaniConversation with: Earl Champagne, Position: VPOrganization: Peak EnergyPhone #: 337-988-6050 ext: \_\_\_\_\_ Location (City/State): Lafayette, LA

## Topic(s) Discussed:

Conversion of well to SWD & Peak's capacity to accept volume of recovered gw.

① Gave Earl thumbnail sketch of proposed ~~recovery~~ contingent recovery

- 2 x 25 gpm wells (50 gpm = 1700 bpd)

- maybe saline

- convey to tank, pump out & meter w/ saltwater to blend into SWD.

② Questions for Earl

- How much salt water do you inject?

- o 5000 bbl/day have 2 wells w/ 5000 bpd capacity so they have lots of capacity

- Go into 750 bbl knock out tank then 3000 bbl suction tank.

- They inject all stormwater from these process/tank area & inject into SWD. No problems with fresh water into SWD. Could easily calculate

(cont.)

MP&A Record of Communication

Work Order # \_\_\_\_\_

Day & Date: \_\_\_\_\_, 6/2/14Time: 1110: \_\_\_\_\_ (am) / pmPhone Conversation Logged by MP&A Employee: Cooper/PisaniConversation with: Earl Champagne, Position: \_\_\_\_\_

Organization: \_\_\_\_\_

Phone #: \_\_\_\_\_ ext: \_\_\_\_\_ Location (City/State): \_\_\_\_\_

## Topic(s) Discussed:

maximum load.Cost info:Option 1: ~~Convert well to SWD~~ Send directly to Peak

- 3" flowline to process area for injection
- \$30/ft \* 3000 l.f.

- Operations

- Chemical treatment (biocide) \$10,000/yr

- Well Acid wash (\$100k / 2 yrs) \$50,000/yr

Option 2: Convert borehole to SWD

- Deck w/ piling & curbs \$100k

- 2000 bbl raw water tank w/ controls \$40k

- 2000 bbl mix tank w/ controls \$40k

- pumps \$20k

- mechanical piping \$40k

- Electrical \$50k

- Perm Hg \$10k

- Well Conversion \$400k

- Piping (\$30/ft estimate sec'd l.f.) \$150,000k

(cont.)

MP&A Record of Communication

Work Order # \_\_\_\_\_

Day & Date: \_\_\_\_\_, 6/2/14

Time: 1110: \_\_\_\_\_ am/pm

Phone Conversation Logged by MP&A Employee: Cooper / Pisani

Conversation with: Earl Champagne, Position: \_\_\_\_\_

Organization: Peak

Phone #: \_\_\_\_\_ ext: \_\_\_\_\_ Location (City/State): \_\_\_\_\_

Topic(s) Discussed:

Option 3: Drill new well

Same as Option 2

except cost to drill new well ~ \$ 1 million

& piping much less since it could be very near recovery wells.

Reiterated that Peak has capacity to accept 1700 ± bbl/day into their process w/o trouble.

