East White Lake SED-15 Remediation Bid Crown Oilfield Construction and Marine

	MPA WHITE	LAKE TASK	3 BACKFIL	L/RESTORA	ATION		
DESCRIPTION			DAYS	DY RATE		TOTAL	REVIEW
EQUIPMENT							
CREW BOAT W/CAPT			3	1,100		3300	
						0	
						0	
						0	
						0	
						0	
						0	
						0	
PERSONNEL							
SUPERINTENDENT			3	900		2700	
CREW W/PUSHER			3	2,500		7500	
						0	
						0	
						0	
						0	
						0	
MATERIALS	UNITS	RATE					
						0	
						0	
						0	
						0	
						0	
FUEL	GALS	RATE					
FUEL CREW BOAT	35	4.38	0			153.3	
			0			0	
						0	
						0	
						0	
						0	
						0	
						0	
						0	
MISC							
			0			0	
						0	
						0	
						0	
						0	
PROJECT TOTAL						13653.3	
Notes:							

Notes:

CREW WITH PUSHER WILL HAVE SMALL EQUIPMENT NECESSARY TO CUT DOWN TREES AND HAND STACK OUTSIDE OF DELINEATED EXCAVATION AREA

	MPA V	WHITE LAKE	TASK 2 EX	CAVATION		
DESCRIPTION			DAYS	DY RATE	TOTAL	REVIEW
EQUIPMENT						
SPUD BARGE			9	550	4950	
SHALE BARGES (4)			9	1,350	12150	
EXT REA EXC(OPER)			9	1,680	15120	
900 HP TUG W/CREW			9	2,800	25200	
300 HP DAY TUGW/CRE	W		9	1,750	15750	
SILT BOOM			9	250	2250	
OIL BOOM			9	250	2250	
CREW BOAT			9	1,100	9900	
PERSONNEL						
SUPERINTENDENT			9	900	8100	
					0	
					0	
					0	
					0	
					0	
					0	
SMALL EQUIPMENT	DAYS	RATE				
PUMP	9	150			1350	
					0	
					0	
					0	
					0	
FUEL	UNITS	RATE				
FUEL TUGS (EST)	8,100	4.38	0		35478	
FUEL EXCAVATOR	900	4.38	0		3942	
					0	
					0	
					0	
					0	
					0	
					0	
					0	
MISC						
SHALE BARGE MOB	4	1,000	0		4000	
SHALE ON/CHARTER	4	500			2000	
					0	
					0	
					0	
PROJECT TOTAL Notes:					142440	

Notes:

ESTIMATED 2 BARGES LOADED PER DAY; 1500 BBLS TOTAL FUEL CONSUMP 1,000GALS/DAY PROJECT TOTAL BARRELS 1700 CUBIC YARDS @ 4.8 BBLS/YD= 8,160 BBLS
3 DAYS MOBILIZATION DEMOBILIZATION PERSONNEL/EQUIPMENT
CLEANING CHARGES BY DISPOSAL FACILITY COSTS BY OTHERS

MPA	WHITE LAK	E TASK 3 BA	CKFILL/RES	TORATION/	REVISED		
DESCRIPTION			DAYS	DY RATE		TOTAL	REVIEW
EQUIPMENT							
SPUD BARGE			9	550		4950	
DECK BARGES (3)			9	750		6750	
EXT REA EXC(OPER)			9	1,680		15120	
900 HP TUG W/CREW			9	2,800		25200	
400 HP DAY TUGW/CRE	W		9	1,750		15750	
SILT BOOM			9	250		2250	
OIL BOOM			9	250		2250	
CREW BOAT W/ CAPT			9	1,100		9900	
PERSONNEL							
SUPERINTENDENT			9	900		8100	
						0	
						0	
						0	
						0	
						0	
						0	
SMALL EQUIPMENT	DAYS	RATE					
PUMP	9	150				1350	
						0	
						0	
						0	
						0	
FUEL	GALS	RATE					
FUEL TUGS (EST)	8,100	4.38	0			35478	
FUEL EXCAVATOR	900	4.38	0			3942	
						0	
						0	
BACKFILL MATERIAL	UNITS	RATE					
BACKFILL SOIL	2,800	17.38				48664	
DOCK RENTAL	9	1,000				9000	
						0	
						0	
MISC							
OFF CHART SURVEYS	3	500	0			1500	
GRASS MATTING	25	65				1625	
BERMUDA	100	6.5				650	
FERTILIZER	300	2				600	
DECK BARGE	3	1,000				3000	
PROJECT TOTAL	3	1,000				196079	
Notes:						130073	

Notes:

ESTIMATED OFF LOAD 1.5 BARGES/DAY
PROJECT TOTAL BACKFILL 2,800 CUBIC YARDS
DAILY BACKFILL TOTAL 500 CUBIC YARDS

FUEL CONSUMP 1,000GALS/DAY

Memorandum

To: Project File

From: Carlton Todd, Michael Pisani & Associates

Date: 10/1/2015

Re: Sheet Pile Cost Information

Based on my conversation with Tracy Comardelle of Crown Construction on 9/15/15.

Sheet pile costs for 40-foot lengths based on \$1,200 per linear foot (lf) for first 1,000 feet and \$350-\$400 per linear foot for removal and reuse of sheet pile.



Foxworth, MS 39483

Cost Proposal

Date	Proposal #		
5/27/2014	4453		

Name / Address	Project Description						
MICHAEL PISANI & ASSOCIATES, INC. 1100 POYDRAS STREET, SUITE 1430 NEW ORLEANS, LA 70163	Environmen White Lake,						
Description	Unit	Estimated Qty	Cost	Total			
Mobilize/Demobilize Sonic Drill Rig & Crew for (1) 4" wells & (1) 2" wells * Daily rate NTE 10 hr. workday; Additional hrs. @ \$550.00/hr. 4" PVC Well Materials 2" PVC Well Material Per-diem Above grade surface completions 2 hp 55 GPM well pump, motor & control box Boat/Barge for access to drilling locations	lump sum per day per ft. per ft. per day per each per each per day	1 5 60 60 5 2 1 5	1,850.00 5,500.00 0.00 25.00 12.00 300.00 600.00 2,500.00 4,800.00	1,850.00T 27,500.00T 0.00T 1,500.00T 720.00T 1,500.00T 1,200.00T 2,500.00T 24,000.00T			
Customer Acceptance of Cost Propostal:		Subtotal		\$60,770.00			
		Sales Tax ((0.0%)	\$0.00			
Authorized Signature Date		Total		\$60,770,00			

Name/Title

^{*}Payment terms nte (30) days upon project completion. *1.5% interest will be charged monthly to all overdue invoices.



P.O. Box 1147 Foxworth, MS 39483

Cost I	Proposal
--------	----------

Date	Proposal #
5/27/2014	4453

Name / Address	Project L	Description		
MICHAEL PISANI & ASSOCIATES, INC. 1100 POYDRAS STREET, SUITE 1430 NEW ORLEANS, LA 70163	Environmen White Lake,			
Description	Unit	Estimated Qty	Cost	Total
Mobilize/Demobilize Sonic Drill Rig & Crew for (1) 4" wells & (1) 1" wells * Daily rate NTE 10 hr. workday; Additional hrs. @ \$550.00/hr. 4" PVC Well Materials 1" PVC Well Material Per-diem Above grade surface completions 2 hp 55 GPM well pump, motor & control box Boat/Barge for access to drilling locations	lump sum per day per ft. per day per each per each per day	1 5 60 60 5 2 1 5	1,850.00 5,500.00 0.00 25.00 8.50 300.00 600.00 2,500.00 4,800.00	1,850.00T 27,500.00T 0.00T 1,500.00T 510.00T 1,500.00T 1,200.00T 2,500.00T 24,000.00T
Customer Acceptance of Cost Propostal:		Subtotal		\$60,560.00
Add 1.10 and a		Sales Tax (0.0%)	\$0.00
Authorized Signature Date		Total		\$60,560.00

Name/Title

^{*}Payment terms nte (30) days upon project completion.

^{*1.5%} interest will be charged monthly to all overdue invoices.



P.O. Box 1147 Foxworth, MS 39483

Cost Pr	oposai
Date	Proposal #

Date	Proposal #			
5/27/2014	4453			

Name / Address	Project D	Project Description				
MICHAEL PISANI & ASSOCIATES, INC. 1100 POYDRAS STREET, SUITE 1430 NEW ORLEANS, LA 70163	Environmen White Lake,					
Description	Unit	Estimated Qty	Cost	Total		
Mobilize/Demobilize Sonic Drill Rig & Crew for (2) 4" wells & (2) 1" wells * Daily rate NTE 10 hr. workday; Additional hrs. @ \$550.00/hr. 4" PVC Well Materials 1" PVC Well Material Per-diem Above grade surface completions 2 hp 55 GPM well pump, motor & control box Boat/Barge for access to drilling locations	lump sum per day per ft. per fday per each per each per day	1 8 120 120 8 4 2 8	1,850.00 5,500.00 0.00 25.00 8.50 300.00 600.00 2,500.00 4,800.00	1,850.00T 44,000.00T 0.00T 3,000.00T 1,020.00T 2,400.00T 2,400.00T 5,000.00T 38,400.00T		
Customer Acceptance of Cost Propostal:		Subtotal		\$98,070.00		
And wind Granden		Sales Tax (0.0%)	\$0.00		
Authorized Signature Date		Total		\$98,070.00		

Name/Title

Walker-Hill Environmental, Inc.
Phone: (601)736-3500 - Fax: (601)736-6006
Email: eric@whenv.com

^{*}Payment terms nte (30) days upon project completion.

^{*1.5%} interest will be charged monthly to all overdue invoices.

Summary of Costs for Site Restoration Peak Operating

CHEVRON - ABANDONED FACILITIES DE-COMMISSIONING:

EAST WHITE LAKE FIELD VERMILION PARISH, LOUISIANA

CHEVRON USA INC
UNOCAL CO. CODE - 9198
TAX JURISDICTION CODE - TX7770100245
C/O PEAK ENERGY, LLC
3639 Ambassador Caffery, Suite 201
Lafayette, LA 70503
(337) 988-6050
James D. Collier - President

Earl P. Champagne - Project Manager & Coordinator

INVOICES

Forward Invoices to:

Thomas E. Gottsegen Senior Counsel, Litigation Mgmt. Unit Chevron Global Upstream and Gas Law 1400 Smith Street Houston, TX 77002

Page 1 of 2

Vendor	Invoice	Invoice	Invoice		
Name	Number	Date	Amount	Description of Expendi	ture
					Mailed
Compass Engineering & Consulting	1000643-IN	10/06/10	\$ 5,200.00	On-Site Supervision	10/08/10
B & J Corporation	2495	10/07/10	10,532.00	Bid Job - tugs, barges, labor	10/15/10
B & J Corporation	2494	10/07/10	8,757.50	Tugboat Rental	10/15/10
Settoon Construction	18919	10/18/10	183,919.76	Construction/Labor	10/22/10
Compass Engineering & Consulting	1000661-IN	10/22/10	10,008.00	On-Site Supervision	10/22/10
Newpark Environmental Services LLC	217420	10/18/10	900.75	Waste Disposal	10/28/10
Newpark Environmental Services LLC	217419	10/18/10	744.00	Waste Disposal	10/28/10
Newpark Environmental Services LLC	217418	10/18/10	822.00	Waste Disposal	10/28/10
Newpark Environmental Services LLC	218511	10/31/10	1,119.50	Waste Disposal	11/15/10
Newpark Environmental Services LLC	218512	10/31/10	671.75	Waste Disposal	11/15/10
Compass Engineering & Consulting	1000709-IN	11/03/10	10,000.00	On-Site Supervision	11/15/10
Compass Engineering & Consulting	1000756-IN	11/16/10	10,000.00	On-Site Supervision	11/19/10
B & J Corporation	2520	10/28/10	110,343.20	Bid Job - tugs, barges, labor	11/19/10
Compass Engineering & Consulting	1000809-IN	11/30/10	8,000.00	On-Site Supervision	12/03/10
Compass Engineering & Consulting	1000855-IN	12/14/10	11,930.00	On-Site Supervision	12/15/10
B & J Corporation	2545	12/14/10	103,223.00	Bid Job - tugs, barges, labor	12/16/10
B & J Corporation	2546	12/14/10	96,800.00	Bid Job - tugs, barges, labor	12/16/10
B & J Corporation	2547	12/15/10	80,400.00	Bid Job - tugs, barges, labor	12/16/10
B & J Corporation	2554	12/23/10	116,202.00	Bid Job - tugs, barges, labor	12/29/10
Compass Engineering & Consulting	1000917-IN	12/29/11	10,000.00	On-Site Supervision	01/04/11
B & J Corporation	2557	01/07/11	90,890.81	Bid Job - tugs, barges, labor	01/11/11
Compass Engineering & Consulting	0011006-IN	01/12/11	11,930.00	On-Site Supervision	01/14/11
Compass Engineering & Consulting	0011052-IN	01/26/11	10,000.00	On-Site Supervision	01/27/11
B & J Corporation	2564	01/27/11	113,977.17	Bid Job - tugs, barges, labor	02/03/11
Compass Engineering & Consulting	0011099-IN	02/09/11	9,000.00	On-Site Supervision	02/10/11
B & J Corporation	2565	02/10/11	110,000.00	Bid Job - tugs, barges, labor	02/18/11
Compass Engineering & Consulting	0011149-IN	02/23/11	10,000.00	On-Site Supervision	02/25/11

CHEVRON - ABANDONED FACILITIES DE-COMMISSIONING:

EAST WHITE LAKE FIELD VERMILION PARISH, LOUISIANA

CHEVRON USA INC UNOCAL CO. CODE - 9198 TAX JURISDICTION CODE - TX7770100245 C/O PEAK ENERGY, LLC 3639 Ambassador Caffery, Suite 201 Lafayette, LA 70503 (337) 988-6050 James D. Collier - President

Forward Invoices to:

Thomas E. Gottsegen Senior Counsel, Litigation Mgmt. Unit **Chevron Global Upstream and Gas Law** 1400 Smith Street

INVOICES

Houston, TX 77002

Earl P. Champagne - Project Manager & Coordinator

Page 2 of 2

Vendor	Invoice	Invoice	Invoice		
Name	Number	Date	Amount	Description of Expenditure	
			Balance Fwd		Mailed
Ва	ance Forward fr	om Page 1:	\$ 1,135,371.44		
Compass Engineering & Consulting	0011252-IN	03/09/11	\$ 10,000.00	On-Site Supervision	03/10/11
B & J Corporation	2578	03/01/11	98,800.00	Bid Job - tugs, barges, labor	03/10/11
Compass Engineering & Consulting	011328-IN	03/23/11	8,000.00	On-Site Supervision	03/29/11
B & J Corporation	2585	03/11/11	70,000.00	Bid Job - tugs, barges, labor	03/29/11
B & J Corporation	2596	03/29/11	95,952.50	Bid Job - tugs, barges, labor	04/06/11
Compass Engineering & Consulting	011368-IN	04/06/11	10,000.00	On-Site Supervision	04/08/11
B & J Corporation	2600	04/13/11	119,200.00	On-Site Supervision	04/18/11
Compass Engineering & Consulting	0011429-IN	04/19/11	12,000.00	On-Site Supervision	04/20/11
Compass Engineering & Consulting	0011480-IN	05/04/11	9,000.00	On-Site Supervision	05/05/11
B & J Corporation	2603	05/04/11	116,459.44	Bid Job - tugs, barges, labor	05/11/11
B & J Corporation	2604	05/04/11	102,185.50	Bid Job - tugs, barges, labor	05/11/11
Compass Engineering & Consulting	0011546-IN	05/18/11	13,000.00	On-Site Supervision	05/23/11
Compass Engineering & Consulting	0011607-IN	06/01/11	12,210.00	On-Site Supervision	06/02/11
Compass Engineering & Consulting	0011654-IN	06/15/11	4,000.00	On-Site Supervision	06/17/11
B & J Corporation	2609	05/23/11	93,459.39	Bid Job - tugs, barges, labor	06/20/11
B & J Corporation	2618	06/15/11	26,400.00	Bid Job - tugs, barges, labor	06/20/11
B & J Corporation	2619	06/15/11	8,757.50	Bid Job - tugs, barges, labor	06/20/11
B & J Corporation	2620	06/15/11	24,010.00	Bid Job - tugs, barges, labor	06/20/11

MP&A Record of Communication
Work Order # <u>\bar{\bar{bar}} - 47</u>
Day & Date: Thursday 5/29/14
Time: 10:00 am/pm
Phone Conversation Logged by MP&A Employee: LCooper W Pisani
Conversation with: Raw Champaghe Position: VP
Organization: Peak Energy
Phone #: 337.988.6050ext: Location (City/State): Laborette, LA
Topic(s) Discussed:
Concept of converting 0/6 well to SWD.
They (Peak) have done 2 conversions in last
3 yrs. @ \$350,000 to \$400,000.
- 2500 to 3500 ft injection zone.
- they also put a lot of rainwater into
the SWD.
- Peak cen handle a fair amond et water.
- LRC/MEP to call Earl on 6/2 to discurs details

_

MP&A Record of Communication
Work Order # 57 - 47
Day & Date: Monday 6/2/14
Time: \(\(\text{\log}\): am pm
Phone Conversation Logged by MP&A Employee: LCooper wy M Pisanic
Conversation with: <u>Earl Champaghe</u> , Position: <u>VP</u>
Organization: Peak Energy
Phone #: 337. 988. 6050 ext: Location (City/State): Latayette, LA
Topic(s) Discussed:
Conversion of well to SWD & Peak's capacity to
accept volume of recovered que.
O Gave Earl thumbrail sketch of proposed to contingent
ve coury
- 2 x 25 gpm wells (SUgpm = 1700 bpd)
- Maybe Salip
- convey to tack, pump out & meter of Saltwarder
to blend uto SWD.
2 Questions for Earl
- How much salt water do you myest?
· 5000 bb/day have 2 wells w/ 5000 bpd
capacity so they have lots of capacity
Go wto 750 bbl knock or 1 trik then
3000 bbl Suction tank.
- They inject all stormwater from there process / tak
area & mjed into Sup. No problems with
Fresh water into SWD. Could easily calculate
The second secon

(cont.)

MP&A Record of Communication
Work Order #
Day & Date:
Time: it to: am pm
Phone Conversation Logged by MP&A Employee:
Conversation with: Earl Champagne, Position:
Organization:
Phone #: Location (City/State):
Topic(s) Discussed:
maroinum load.
Cost into!
Option 1: Convert well to Swo Send directly to Peak
- 3" howline to process area for injection
#30/H * 3000 1.f.
- Operations
Chemical treatment (brocide) \$ 10,000/yr
well heid wash (\$100K(Zyrs) \$50,000/yr
Option 2: Convert borehole to SWD
- Deck of piling & curbs \$100K
- 2000 bbl raw water tack of controls to 40K
- 2000 bbl mix tank y controls \$40K
- pumps & rok
-mochanical PIPG \$40K
- Electrical #50K
- Perm this
- Well Conversion \$400 K
- PIQUES (\$30/1f estimate soco If.) \$ 150,000k
(cont.)

MP&A Record of Communication		
Work Order #		
Day & Date:		
Time: ((10: am/pm		
Phone Conversation Logged by MP&A Employee: Coope Pisani		
Conversation with: Position:		
Organization:		
Phone #:ext:Location (City/State):		
Topic(s) Discussed:		
Option 3: Drill new well		
Same as Option 2		- "
except cost to drill new well ~\$	1	arillion
4 piping much less since it		
could be very near		
record mels.		
Recterated that Peak has capacity to accept 1700 ± bbl/day who their		
accept 1700 ± bbl/day who their		
process w/o trouble		

MP&A Record of Communication
Work Order # 47
Day & Date: Wodnosdy, 5/28/14
Time: 12:00 am/pm
Phone Conversation Logged by MP&A Employee: Lance Cooper
Conversation with: Guy Mire Position: Sales
Organization: Ecoseru (formerly New Park Environmental)
Phone #: 113. 703. 6000 ext: Location (City/State): Houston, TX
Topic(s) Discussed:
Cost for disposal of soil/sediment from
East while lake Pit Closure.
Rate is \$21.00/661
roughly 4.8 bbl/cy
must also include \$ 5000 barge for
Cleanout. Assume at least (7) 1200 bb
barges.
A.
- PV

	MP&A Record of Communication
	Work Order # _67
Day & Date	Endy 5/30/14
	: 40 am/pm
Phone Conv	ersation Logged by MP&A Employee:
Conversation	n with: Bryon Richard Position:
	1337 - 905,2411 ext: Location (City/State):
Topic(s) D	iscussed:
Water	barge for pump test! b 350/day for water barge ~ 100 gallon capacity
	D SSUIday for water barge
	~ 100 gallon capacity
	to 140K
	y ⁵ :

MP&A Record of Communication Day & Date: Tucsday 5/20/14 Time: 13:05 am /pm Phone Conversation Logged by MP&A Employee: Conversation with: Wayne Hebert Position: Water Well Daller Organization: Black's Purp + Water Well Service, Abbeville, LA 70510 Phone #: 337 - 893 - 4605 ext: Location (City/State): Topic(s) Discussed: Asked wegne cost of installing 40' + 500' domestic water wells in East White Lake area the said would have to use being to transport rig therefore Costs as follows: Myol well 34 Diameter No lok includes Durge (estante) to be ~8.9K) NSOO' well 3" Die nety noo K thelvall berge

From: David Rachou
To: Lance Cooper

Subject: RE: Request for Budget Level Cost Estimate

Date: Thursday, May 29, 2014 5:54:32 PM

30% normal usage is ballpark, but on the high side. Salt consumption is about \$12/month

Annual filter change on POU R/O \$60 + labor Annual filter change on POE R/O \$120 + labor 10 yr replacement is also ballpark and a little high

8% tax is fine

Our labor charge is \$90/hr

3-4 hrs average for RO & Softener (must be pre plumbed with access to drain and electrical outlet)

No problem with remote locations. 30% of my weekends are spent in the Pecan Island Marshes.

From: Lance Cooper [mailto:lcooper@mpisani.com]

Sent: Thursday, May 29, 2014 4:43 PM

To: David Rachou Cc: Dave Angle

Subject: RE: Request for Budget Level Cost Estimate

Thanks David.

If we assume 30% of normal household usage (3 days per week and 3 weekends per month) can we estimate the O&M? Again, ballpark estimates are fine. I need to include that in my report.

Based on your previous email, I will assume that we replace the system completely every 10 years.

For taxes, I will include 8%. What about labor costs to install? Do you figure a percentage of cost or a lump sum estimate. These will be remote locations and not easy to get to.

Thanks for your help and I look forward to hearing from you soon.

Lance R. Cooper, P.E.
Michael Pisani & Associates, Inc.
1100 Poydras Street, Suite 1430
New Orleans, LA 70163
504-582-2476 (phone)
504-582-2470 (fax)
315-246-4494 (cell)

lcooper@mpisani.com

From: David Rachou [mailto:culligan@glacoxmail.com]

Sent: Thursday, May 29, 2014 4:10 PM

To: Lance Cooper

Subject: RE: Request for Budget Level Cost Estimate

The deeper well is the better option based on the analysis. The shallow well would require additional treatment and has a much higher tds level (632 vs 5400)

To predict operation and maintenance cost would be difficult. How many times will they visit the camp and how much water will they consume each time? The average 2 person household on municipal water systems will use approximately 5500 gal/month. This is a different scenario.

30yrs? Most treatment systems have an average lifespan of 15yrs before being replaced. If the equipment is outdoors and not in a utility room, then it would be much less than 15yrs.

Hope this helps.

From: Lance Cooper [mailto:lcooper@mpisani.com]

Sent: Thursday, May 29, 2014 3:08 PM

To: David Rachou **Cc:** Dave Angle

Subject: RE: Request for Budget Level Cost Estimate

David:

Thanks for the attached information.

Would you recommend the same approach for the shallow well and the deeper well or would the system requirements be different based on the water quality data that I provided?

Also, how would we best estimate operation and maintenance cost assuming that it would be used for 30 years?

Lance R. Cooper, P.E.
Michael Pisani & Associates, Inc.
1100 Poydras Street, Suite 1430
New Orleans, LA 70163
504-582-2476 (phone)
504-582-2470 (fax)
315-246-4494 (cell)
Icooper@mpisani.com

From: David Rachou [mailto:culligan@glacoxmail.com]

Sent: Thursday, May 29, 2014 2:19 PM

To: Lance Cooper

Subject: RE: Request for Budget Level Cost Estimate

Lance.

I attached the brochures for the Culligan water softener and reverse osmosis systems. I reviewed the water analysis you submitted and suggest the following general water treatment options. We would need to re test the water supply again after the well supply is selected.

Water Softener \$1395 Medallist Plus 10X49

Treats calcium, magnesium and iron

The softener uses softener salt for regeneration and regen frequency is based on water consumption.

POU Reverse Osmosis \$725 Agua-Cleer

Point of use reverse osmosis offers a more affordable option and is usually installed under the kitchen sink. This supplies cooking and drinking water and can also supply the refrigerator/icemaker.

OR

POE Reverse Osmosis \$5562

Point of entry reverse osmosis supplies the entire home. The system priced is for a *M1-2S* 500GPD system with a 120gal storage tank.

Reverse osmosis must be used with water softener pretreatment or membrane fouling will occur.

Price does not include Tax/Labor

Please review the brochures and contact us with any further questions. Thanks,

David Rachou Culligan - Lafayette

From: Lance Cooper [mailto:lcooper@mpisani.com]

Sent: Wednesday, May 28, 2014 6:12 PM

To: culligan@glacoxmail.com

Cc: Dave Angle

Subject: Request for Budget Level Cost Estimate

Dave:

Thanks for taking the time to talk with me earlier this afternoon. I am attaching laboratory analyses for two ground water zones at the site we are interested in.

The first is groundwater from 500-feet deep wells and the second is for shallower wells. We are potentially interested in treating each of these for domestic use.

Could you please utilize the attached lab data to provide us with a budget level cost estimate for the purchase, installation, and estimated annual operational costs (for a 30-year period) for a water treatment system for the following?

Treatment of the water needed for one average camp house (i.e. for bathing, washing, drinking, cooking, etc.)

Please call with any questions. Thank you in advance for your time.

Lance R. Cooper, P.E.
Michael Pisani & Associates, Inc.
1100 Poydras Street, Suite 1430
New Orleans, LA 70163
504-582-2476 (phone)
504-582-2470 (fax)
315-246-4494 (cell)
Icooper@mpisani.com

active.

This email is free from viruses and malware because <u>avast! Antivirus</u> protection is active.
This email is free from viruses and malware because <u>avast! Antivirus</u> protection is active.

This email is free from viruses and malware because <u>avast! Antivirus</u> protection is

From: Patrick Ritchie

Sent: Wednesday, June 04, 2014 11:03 AM

To: Dave Angle

Subject: 07-47 East White Lake-Peak Water Well Usage

Dave,

I just spoke to Aaron, current operator of the Peak facility, regarding the usage of the ~400' water well on site.

He called it the "fresh water well that they use for potable water". He specified that the use is for washing dishes and clothes, toilets, etc.

He indicated that the water was not used for drinking and that they drank only bottled water at the facility.

Contact: Aaron (Peak) cell# 337-322-5001

Best regards, Patrick Ritchie Michael Pisani and Associates 1100 Poydras St. Suite 1430 New Orleans, LA 70163 Office: 504-582-2468

Direct: 504-582-2472 pritchie@mpisani.com