

APPENDIX R
HET FIELD LOGS



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: Lislow Lewis

Project No.: 1009.A62

Project Name: Leveret

Date: 8-29-19

Project Location: Plaquemine, La

Page 1 of

700	arrived @ office loaded supplies	Dun + Warren Dale
845	left office	
900	arrived @ Jack Miller Landing - met w/ Andrew, Dyle, Mike launched Airboat	
930	mobbed to site	
1000	arrived @ Leveret Property Mike to conduct GEM Survey Dyle + Andrew to head Auger location setup on first location (HA-1) small circular hole \approx 30 ft circle \approx 2 ft water 30, 19558 91.34187 \pm 9' Pic 120-123 place PVC casing - bailed out water hand Auger and sealer on 2 foot center grouted through PVC casing - \approx 4 gallon processed samples @ boat collected 0-2 @ 1100 placed in 1-4oz + 1-9oz Jar + Quart Ziplock collected 2-4 @ 1105 - - - - EC readings 0-2 = 1.15 mS/cm 2-4 = 2.35 - 0-2 dark gray clay, silt, silt/clay 2-4 dark gray clay, low moisture, browned clay	
	mobbed to next location	
1250	setup on HA-2 30, 19520 91.33804 \pm 9' Pic 124-127 rectangle \approx 30 ft square \approx 3 ft of water - 1 ft soft sediment placed PVC casing - bailed out water collected soil samples on 2 ft intervals collected 0-2 @ 1315 placed in 1-4oz, 1-9oz Jar + Quart Ziplock collected 2-4 @ 1320 - - - - EC readings 0-2 = 1.32 mS/cm 2-4 = 1.81 -	



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: Liskow + Lewis

Project No.: 1009-462

Project Name: Levert

Date: 8-29-19

Project Location: Playacomic, La

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gravel borehole - \approx 4 gallons grout
 installed next launch

1410 set up on HA 3
 30.19241 91.34019 PIC 128-129

placed PVC casing - 6.0' diameter out
 hand measured samples on 2 ft intervals
 circular leveled area \approx 30 ft circle = \approx 4" water
 sampled to 8' BU
 collected 0-2' @ 1440 1-9oz, 1-4oz, 1-quant 2 plates
 collected 2-4' @ 1445 - - -
 collected 4-6' @ 1450 - - -
 collected 6-8' @ 1455 - - -

EC Reading
 0-2 = 2.25 mS/cm
 2-4 = 2.99 mS/cm
 4-6 = 4.00 : :
 6-8 = 4.03 : -

1600 left site
 1618 around landing
 loaded Airboat
 unloaded supplies into truck

1730 around coffee
 installed hand samples



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845	left office	
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	mobbed to next location	
1250	setup on HA-2 30, 19520 91.33804 \pm 9' Pic 124-127 rectangle \approx 30 ft square \approx 3 ft of water - 1 ft soft sediment placed PVC casing - bailed out water collected soil samples on 2 ft intervals collected 0-2 @ 1315 placed in 1-4oz, 1-9oz Jar + Quat 2. plank collected 2-4 @ 1320 - - - - - EC readings 0-2 = 1.32 mS/cm 2-4 = 1.81 " "	



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 mobile next launch

1410 set up on HA 3
 30.19241 91.34019 PIC 128-129

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 hand angled supplies on 2 ft intervals
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EC Reading
 0-2 = 2.25 mS/cm
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1600 left site
 1618 around landing
 loaded Airboat
 unloaded supplies into truck

1730 around coffee
 mobile to hand supplies



**HYDRO-ENVIRONMENTAL
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Project No.: 1009.A62

Project Name: Leveret

Date: 9-30-19

Project Location: Plaquemine, La

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715

arrived @ other
local supplier

Don - Warren Dale - H&E

730

left other.

845

arrived on-site
launched boat (Airboat)

950

arrived @ leveret property
walked to first location

set up HA 4

30.19861 91.34230 ± 9'

pic 130-131

hand Augered near former tank battery

placed each 2 foot interval in garbage bag for processing @ boat
on shell pad

≈ 3 ft of shell + silts + clays

gray silty clay 3-8 ft @ 4

collected 0-2 @ 1025

1-9oz, 1-4oz, Quart Dyege

2-4 @ 1030

4-6 @ 1035

6-8 @ 1040

EC Reading

0-2 = 0.96 mS/cm

2-4 = 4.11 " "

4-6 = 4.79 " "

6-8 = 5.01 " "

grouted borehole ≈ 4 gallon grout

walked to next location

HA 5

30.19787 91.34233 ± 9'

pic 132-133

placed casing - bailed out water

hand Augered soil system + placed in garbage bag on 2 ft intervals

grouted borehole - ≈ 4 gallon grout

processed samples 0-2 @ boat

water depth ≈ 1 foot



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Date: 8-30-19
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collected 0-2 @ 1135 1-5oz, 1-4oz, 1 quart baggie
collected 2-4 @ 1140
collected 4-6 @ 1145
collected 6-7 @ 1150

EC Readings

0-2 = 2.35 nS/cm
2-4 = 4.02
4-6 = 4.40
6-7 = 5.63

mobbed back to area of HA 2
Ivan conducted additional GEM work

1245 mobbed back to landing
loaded air boat on trailer

1315 left landing

1445 arrived @ office
unloaded + stored samples
stored equipment



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Date: 9-30-19
Page 1 of

715 arrived @ other Don - Warren Dale - HET
local supplier
730 left other.
845 arrived on-site
launched boat (Airboat)
950 arrived @ Levert property
walked to first location
set up HA 4
30.19861 91.34230 ± 9' pic 130-131
hand Augered near former tank battery
placed each 2 foot interval in garbage bag for processing @ boat
on shell pad
≈ 3 ft of shell + silts + clays
gray silty clay 3-8 ft @ 4
collected 0-2 @ 1025 1-9oz, 1-4oz, Quart Dye
2-4 @ 1030 - - - -
4-6 @ 1035 - - - -
6-8 @ 1040 - - - -
EC Reading
0-2 = 0.96 mS/cm
2-4 = 4.11 - -
4-6 = 4.79 - -
6-8 = 5.01 - -
grouted borehole ≈ 4 gallon grout
walked to next location
HA 5
30.19787 91.34233 ± 9' pic 132-133
placed casing - bailed out water
hand Augered soil system + placed in garbage bag on 2 ft intervals
grouted borehole - ≈ 4 gallon grout
processed samples 0-2 @ boat
water depth ≈ 1 foot



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mobbed back to area of HA 2
I am conducting additional GEM work

1245 mobbed back to landing
loaded air boat on trailer

1315 left landing

~~1445~~ arrived @ office
unloaded + stored samples
stored equipment



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Project Name: Levert
Project Location: Plaquemine, LA

Project No.: 1009.A62
Date: 9-25-19
Page 1 of 2

- 6:30 - RL left HET office in Truck HRS w/ HET airboat, - HET w/ Warren Dale which.
- Stopped @ Tiger Mat in Grasse Lake, for water.
- 7:50 - Arrived @ Jack Miller's landing in ~~Grasse Lake~~ Plaquemine, Lt.
- ICON unloading boats and Marsh Master - Geoff, Jay + 2 boat operators.
- unloaded @ HET airboat.
- 8:15 - Left landing
- 9:00 - Arrived @ Levert Property, Geoff to run boat and load Marshmaster to location.
- 9:30 - ICON back onsite; plan to drill soil boring and set Monitor Well.
- 9:50 - ICON begins Tacking Marsh Master to first location.
- 10:05 - ICON set up on LT-1 soil boring location.
GPS Coordinates: 30.1977n -11.34241 ± 17 ft
- 10:25 - ICON started drilling w/ Marshmaster w/ Geoprobe attachment
- 10:45 - Pushed to TD of 20' for LT-1 Soil Boring
- Brought sample cores back to boat to log
- 11:45 - finished logging cores; ~~ICON~~ ICON to grant 20' soil boring +
move ~~Marshmaster~~ Marshmaster over to set monitor well @ 11-16' BWS = SI
- Grouted LT-1 soil boring through tremie pipe to 20' TD w/ 4 gallons of bentonite/portland cement mix; grout to surface.
- 12:15 - ICON set temporary MW @ LT-1 location; let set for a while.
- 12:54 - Begin pumping on LT-1 Temporary Monitor Well.

Well/Size = LT-1 3/4" PVC	TIME	TEMP °C	Conductivity	pH	ORP	TDS	Volume
TD = 20.85'	1255	20.1	25.44	6.44	-44	23.07	Initial
Water level = 7.79'	1300	24.1	25.20	6.42	-88	23.13	0.5 gal
Stickup = 4.88'	1306	23.3	25.26	6.43	-95	23.73	0.75 gal
	1310	23.0	25.37	6.41	-95	23.03	1.0 gal
	1325	24.0	25.09	6.43	-96	23.22	2.0 gal

Sample Time = 1330

- 1330 - Sample well
- 14:15 - Complete Sampling of LT-1 Temporary Monitor Well



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- 14:20- ICON begins to grant LT-1 Temporary Marker well.
 - Completely pulled PVC w/ slotted screen from the hole, pull all 2.25" bands + moved Marshmaster.
 - Went back down the hole to TD w/ PVC Trench pipe; grouted hole with approx. gallons on bentonite/portland mix; grant to surface.
- 14:45- Track Marshmaster out
- 14:50- RL + Warren Dale go look @ locations @ IPSB property, while ICON decon's pipe + bands marshmaster to float to next location.
- 15:25- start floating Marshmaster to next location
- 15:45- Arrive @ next location; ~~walk~~ walk marshmaster up to land; load w/ tooling + piping.
- 16:00- ICON set up on location w/ MarshMaster.
 - Left site
- 16:20- Back @ Jacks Miller's Land; load up boat, head back to HET office.
- 17:50- Back @ HET office.



BORING No. LT-1 (Temporary Well)

PROJECT NAME Lever
 PROJECT NUMBER 1059. A62
 LOCATION Plaquemine, LA
 DRILLING METHOD MarshMaster
 SAMPLING METHOD 4x 2.25" Dual Tube
 GROUND ELEVATION _____
 TOP OF CASING _____
 LOGGED BY RSL
 REMARKS Field Coordinates: 30.19779 -91.24241 ± 17 ft.

DATE STARTED 9-25-19
 DATE COMPLETED 9-25-19
 CASING TYPE/DIAMETER 3/4" PVC
 SCREEN TYPE/SLOT Filter Sock .001" Slotted Screen
 SAND PACK TYPE N/A
 GROUT TYPE/QUANTITY _____
 DEPTH TO WATER 12 Feet
 GROUNDWATER ELEVATION _____

REC.
1.8'
2.2'
0.8'
2.8'
2.5'

PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	EC
					2			0-1.8' - Clay, brownish gray, low moisture, low density, Fe staining throughout grass/roots (0-0.2')	2.11
			1105	0-4'	4				3.93
			1110		6			0-2.2' - Clay, gray, low moisture, low density, Fe staining (0-0.8'); wood @ 2.0'	4.40
			1115	6-9' No split	8				6.13
					10			0-0.8' - Clay, minor silt, gray, low to mod. moisture, low density. wood throughout	6.78
			1125		12				6.57
			1130	12-14'	14			0-1.2' - Silt, minor minor to mod sand content, high moisture, low density	7.49
			1135		16				6.22
			1140		18			1.2- 2.8' - Clayey silt, gray, low moisture, low density, clay, low (1.2-1.5')	5.39
			1145		20				5.44
					22			TD = 20' SI = 11-16'	
					24				
					26				
					28				
					30				
					32				
					34				
					36				
					38				
					40				



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- 9:30 - ICON back onsite; plan to drill soil boring and set Monitor Well.
- 9:50 - ICON begins Tacking Marsh Master to first Location.
- 10:05 - ICON set up on LT-1 soil boring location.
 - GPS Coordinates: 30.1977n -11.34241 ± 17 ft
- 10:25 - ICON started drilling w/ Marshmaster w/ Geoprobe attachment
- 10:45 - Pushed to TD of 20' for LT-1 Soil Boring
 - Brought sample cores back to boat to log
- 11:45 - finished logging cores; ~~ICON~~ ICON to grant 20' soil boring +
 - more ~~Marshmaster~~ Marshmaster over to set monitor well @ 11-16' BWS = SI
 - Grouted LT-1 soil boring through tremie pipe to 20' TD w/ 4 gallons of bentonite/portland cement mix; grout to surface.
- 12:15 - ICON set temporary MW @ LT-1 location; let set for a while.
- 12:54 - Begin pumping on LT-1 Temporary Monitor Well.

Well/Size = LT-1 3/4" PVC	TIME	TEMP °C	Conductivity	pH	ORP	TDS	Volume
TD = 20.85'	1255	20.1	25.44	6.44	-44	23.07	Initial
Water level = 7.79'	1300	24.1	25.20	6.42	-88	23.13	0.5 gal
Stickup = 4.88'	1306	23.3	25.26	6.43	-95	23.73	0.75 gal
	1310	23.0	25.37	6.41	-95	23.03	1.0 gal
	1325	24.0	25.09	6.43	-96	23.22	2.0 gal

Sample Time = 1330

- 1330 - Sample well
- 14:15 - Complete Sampling of LT-1 Temporary Monitor Well



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- 14:45 - Track Marshmaster out
- 14:50 - RL + Warren Dale go look @ locations @ IPSB property, while ICON decon's pipe + bands marshmaster to float to next location.
- 15:25 - start floating Marshmaster to next location
- 15:45 - Arrive @ next location; ~~walk~~ walk marshmaster up to land; load w/ tooling + piping.
- 16:00 - ICON set up on location w/ MarshMaster.
 - Left site
- 16:20 - Back @ Jacks Miller's Land; load up boat, head back to HET office.
- 17:50 - Back @ HET office.



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Page 1 of 2

5:40- RL left HET office in Truck #15 w/ MET Airboat w/
 Maria Cole with.

7:00- Arrive @ Jack Millers landing in Plaquemine; launch boat.

7:15- Ride to Levert sites

7:30- Arrive @ Levert property; ICON already set up w/ Mashmaster on
 LT-2 soil boring location. ICON = Geoff + Jay

7:45 ICON starts drilling LT-2 soil boring.

8:00 - Pour Field Blanks for GLO sampling.

8:05 - ICON finished pushing LT-2
 GPS Field Coordinates: 30.19556, -91.34185 ±18'
 TD = 16 Feet. SI. 11-16'

8:20 - Start Logging.

8:55 - Complete Logging of LT-2

9:10 - Start setting LT-2 Temporary Monitor Well in same hole as
 LT-2 soil Boring Screened Interval = 11-16' BLS

9:55 - Set up on LT-2 Temporary Monitor Well - Begin Purgin.

TIME	TEMP	Cond.	pH	ORP	TDS	Turb.	Volume
0955	0.51	9463	6.83	-45	7474	-	Initial
1001	22.5	9843	6.52	-65	7815	94	0.5 gal.
1007	22.1	9928	6.45	-73	7579	85	1.0 gal.
1016	22.2	9953	6.42	-79	7908	84	1.5 gal.
1021	20.0	9926	6.46	-62	7885	OR	2.0 gal.
1030	22.3	9977	6.37	-78	7932	85.5	2.5 gal.

10:35 - Begin Sampling.

11:25 - Finished Sampling -
 - ICON returned back to Jack Millers landing for lunch.

11:40 - ICON back onsite.

12:00 - ICON pulls 2.25" dual tube pipe; run 3/4" PVC tremie pipe to
 16' TD, grouted by gravity method w/ approx. 4 gallons of portland
 cement mix until grout to surface.

12:40 - ICON starts to clean up, decon pipe + prepare to move to next location.

13:05 - Start moving to next location.

14:15 - Set up on LT-3 Soil Boring Location

14:35 - Begin drilling LT-3



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Page 2 of 2

- 15:00 - Completed drilling LT-3 Soil Boring
TD: 16' BLS ; No Recovery (8-16') SI = 11-16' BLS
Field Coordinates: 30.19522, -91.33817 ± 18'
- ~~0.0010 Slotted screen w/ Filter sock~~
- 15:25 - Finished logging sample; ICON to set temporary monitor well
in same hole Second Interval ~~SI = 11-16'~~ SI = 11-16'
- ~~15:50 - ICON finished setting MW.~~
- 15:50 - ICON finished setting MW.
- 16:00 - Headed back to the landing
- 16:15 - Load up Boat @ landing
- 17:45 - Back @ HET office.



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
 Environmental Consultants
 91 Apollo Road
 Scott, Louisiana 70583
 (337) 261-1963 Fax (337) 261-1953

BORING No. LT-2 (Temporary Well)

PROJECT NAME Lever
 PROJECT NUMBER 1009. Ag2
 LOCATION Plaquemine, LA
 DRILLING METHOD Marsh Master
 SAMPLING METHOD 4' x 2.25" Dual Tube
 GROUND ELEVATION _____
 TOP OF CASING _____
 LOGGED BY _____
 REMARKS RJL
Field Coordinates: 30.89556 -91.34185 ± 18'

DATE STARTED 9-26-19
 DATE COMPLETED 9-26-19
 CASING TYPE/DIAMETER 3/4" PVC
 SCREEN TYPE/SLOT 0.001" Slotted Screen w/ Filter Sock
 SAND PACK TYPE _____
 GROUT TYPE/QUANTITY _____
 DEPTH TO WATER 12 Feet
 GROUNDWATER ELEVATION _____

REC.

1.8'

1.8'

0.7'

PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	E.C.
	0.6	825	0.4'	No Silt	2			0-1.8' Clay, gray, low moisture, low density, Iron staining throughout	1.73
	0.9	835	4-8'	No Silt	6			0-1.8' Clay, gray, low moisture, low density, wood at 0.9 & 1.2', mod moisture (1.5-1.8'); Fe staining (0-0.9')	2.94 3.16 3.61
					10			No Recovery	
	1.5	855	12-16'	No Silt	12			0-0.7' Clayey Silt, gray, high moisture, low density	3.11
					16			TD=16' SI=(11-16')	
					18				
					20				
					22				
					24				
					26				
					28				
					30				
					32				
					34				
					36				
					38				
					40				



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 91 Apollo Road
 Scott, Louisiana 70583
 (337) 261-1963 Fax (337) 261-1953

BORING No. LT-3 (Temporary Well)

PROJECT NAME Lever
 PROJECT NUMBER 1009 A62
 LOCATION Plaquemine, LA
 DRILLING METHOD Marsh Mast w/ Geoprobe
 SAMPLING METHOD 4" x 2.25" Dual Tube
 GROUND ELEVATION _____
 TOP OF CASING _____
 LOGGED BY RSL
 REMARKS Field Coordinates: 30.19522 -91.33819 ±18'

DATE STARTED 9-26-19
 DATE COMPLETED 9-27-19
 CASING TYPE/DIAMETER 30" PVC
 SCREEN TYPE/SLOT 0.0010" Slotted Screen w/ Filter Socks
 SAND PACK TYPE _____
 GROUT TYPE/QUANTITY _____
 DEPTH TO WATER _____
 GROUNDWATER ELEVATION _____

REC.
 1-6'
 1-6'
 0
 0

PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT/BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	
					2			0-1.6' - clay, gray, low moisture, low density, Fe staining throughout.	1.69
		1620	0-4' No Solids		4				2.20
					6			0-1 - Clay as above 1-1.6' - Clay, gray, low moisture, low density, wood @ (0.9 - 1.2')	2.29
		1630	4-8' No Solids		8				1.99
					10			No Recovery	
					14			No Recovery	
					16				
					18				
					20			TD=16' SI = (14-16')	
					22				
					24				
					26				
					28				
					30				
					32				
					34				
					36				
					38				



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 Maria Cole with.

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7:15- Ride to Levert sites

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 LT-2 soil boring location. ICON = Geoff + Jay

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8:05- ICON finished pushing LT-2
 GPS Field Coordinates: 30.19556, -91.34185 ±18'
 TD = 16 Feet. SI. 11-16'

8:20 - Start Logging.

8:55- Complete Logging of LT-2

9:10- Start setting LT-2 Temporary Monitor Well in same hole as
 LT-2 soil Boring Screened Interval = 11-16' BLS

9:55 - Set up on LT-2 Temporary Monitor Well - Begin Purgin.

TIME	TEMP	Cond.	pH	ORP	TDS	Turb.	Volume
0955	0.51	9463	6.83	-45	7474	-	Initial
1001	22.5	9843	6.52	-65	7815	94	0.5 gal.
1007	22.1	9928	6.45	-73	7579	85	1.0 gal
1016	22.2	9953	6.42	-79	7908	84	1.5 gal
1021	20.0	9926	6.46	-62	7885	OR	2.0 gal
1030	22.3	9977	6.37	-78	7932	85.5	2.5 gal

10:35- Begin Sampling.

11:25- Finished Sampling -
 - ICON returned back to Jack Millers Landing for lunch.

11:40- ICON back onsite.

12:00- ICON pulls 2.25" dual tube pipe; run 3/4" PVC tremie pipe to
 16' TD, grouted by gravity method w/ approx. 4 gallons of portland
 cement mix until grout to surface.

12:40- ICON starts to clean up, decom pipe + prepare to move to next location.

13:05- Start moving to next location.

14:15- Set up on LT-3 Soil Boring Location

14:35- Begin drilling LT-3



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TECHNOLOGY, INC.**
Environmental Consultants

Client: Liskow + Lewis

Project No.: 1009.A62

Project Name: Levert

Date: 9-26-19

Project Location: Plaquemine, LA

Page 2 of 2

- 15:00 - Completed drilling LT-3 Soil Boring
TD: 16' BLS ; No Recovery (8-16') SI = 11-16' BLS
Field Coordinates: 30.19522, -91.33817 ± 18'
- ~~0.0010 Slotted screen w/ Filter sock~~
0.0010 Slotted screen w/ Filter sock
- 15:25 - Finished logging sample; ICON to set temporary monitor well
in same hole Second Interval ~~SI = 11-16'~~ SI = 11-16'
~~Set temporary well~~
- 15:50 - ICON finished setting MW.
- 16:00 - Headed back to the landing
- 16:15 - Load up Boat @ landing
- 17:45 - Back @ HET office.



**HYDRO-ENVIRONMENTAL
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Client: Lizkow & Lewis

Project No.: 1009.A62

Project Name: Levert

Date: 9-27-19

Project Location: Plaquemine, LA

Page 1 of 2

7:00 - RL & Warren Dale left HET office in Truck #15 w/
HET Airboat #1

8:15 - Arrived @ Jack Millars Landing; landed boat

8:25 - Left Landing

8:35 - Arrived @ Levert property. Onsite: ICON - Geoff Jay.

- Set up of LT-2 temporary Monitor Well

9:06 - Begin pre-aerating Monitor well; Pour Field Block

~~9:06~~ LT-2 Field Parameter Sheet.

TD = 20.33'
SU = 4.85'
STW = 7.86'

TIME	TEMP	Cond.	pH	ORP	TDS	Turb.	Vol.
0906	23.5	7463	6.64	56	5730	-	Initial
0905	22.1	6229	7.12	-61	4719	OR	0.5 gal
0911	22.0	5760	7.00	-97	4305	OR	1.0 gal
0924	22.2	5470	6.88	-84	4089	OR	1.5 gal

Dry

9:30 - Sample Time

10:33 - Concluded Sampling event; pull tubing & clean up

10:45 - ICON pulled 3/4" PVC riser from Temp. well; pulled all 2.25" barrels out; moved MarshMaster off location.

- Went back down to TD w/ 3/4" PVC Trouve pipe; grouted w/ approx 4 gallons of bentonite/portland mix until cement to surface by gravity feed method.

11:15 - Track out MarshMaster; start hooking it up to push boat to float it back to the landing.

12:00 - Ride to Hand Auger location

12:10 - Begin pushing HA-6 Hand auger - TD = 6 feet
GPS Coordinates: 30.19488, -91.34225 ± 18 feet.

HA-6

0-2' - Clay, gray, Fe staining, low moisture, low density.

2-4' - Clay, same as above

4-6' - Clay, same as above

EC

1.44

2.02

2.25

- Collected Samples ⇒ (0-2') @ 1230, (2-4') @ 1235
and (4-6') @ 1240



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: Liston & Lewis
Project Name: Levert
Project Location: Plaquemine, LA

Project No.: 100th H67
Date: 9-27-19
Page 2 of 2

12:40 - Completed sampling & logging of head auger
- ION to fill back H₂O to location w/ soil.

~~12:45~~
12:45 - Head back to launch

13:00 - Arrive @ launch, label back & head back to office.
- Stop for lunch & to refuel

15:10 - Back @ HET office.



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: Lizkow + Lewis

Project No.: 1009.A62

Project Name: Levert

Date: 9-27-19

Project Location: Plaquemine, LA

Page 1 of 2

7:00 - RL + Warren Dale left HET office in Truck #15 w/
HET Airboat #1

8:15 - Arrived @ Jack Millars Landing; landed boat

8:25 - Left Landing

8:35 - Arrived @ Levert property. Onsite: ICON - Geoff Jay.
- Set up of LT-2 temporary Monitor Well

9:00 - Begin pre-augering Monitor well; Pour Field Block
LT-2 Field Parameter Sheet.

TD = 20.33'
SU = 4.85'
STW = 7.86'

TIME	TEMP	Cond.	pH	ORP	TDS	Turb.	Vol.
0900	23.5	7463	6.64	56	5730	-	Initial
0905	22.1	6229	7.12	-61	4719	OR	0.5 gal
0911	22.0	5760	7.00	-97	4305	OR	1.0 gal
0924	22.2	5470	6.88	-84	4089	OR	1.5 gal

Dry

9:30 - Sample Time

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10:45 - ICON pulled 3/4" PVC riser from Temp. well; pulled all 2.25" barrels out; moved MarshMaster off location.

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11:15 - Track out MarshMaster; start hooking it up to push boat to float it back to the landing.

12:00 - Ride to Hand Auger location

12:10 - Begin pushing HA-6 Hand Auger - TD = 6 feet
GPS Coordinates: 30.19488, -91.34225 ± 18 feet.

HA-6

- 0-2' - Clay, gray, Fe staining, low moisture, low density.
- 2-4' - Clay, same as above
- 4-6' - Clay, same as above

EC

1.44
2.02
2.25

- Collected Samples ⇒ (0-2') @ 1230, (2-4') @ 1235
and (4-6') @ 1240



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: Liston & Lewis
Project Name: Levert
Project Location: Plaquemine, LA

Project No.: 100th H67
Date: 9-27-19
Page 2 of 2

12:40 - Completed sampling & logging of head auger
- ION to fill back H₂O to location w/ soil.

~~12:45~~
12:45 - Head back to launch

13:00 - Arrive @ launch, label back & head back to office.
- Stop for lunch & to refuel

15:10 - Back @ HET office.



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**

Environmental Consultants

Client: Liskow & Lewis

Project No.: 1009.A62

Project Name: Leveret

Date: 5/5/22

Project Location: Plaquemine, LA

Page 1 of 1

0500	Arrived @ office Loaded Equipment	
0530	Left office in Truck # 29, pulling G1-3 (TODD & JAKE)	
0630	Arrived @ Jack Millers Landing; Talked About SCOPE of work and held safety meeting w/ All Personnel	<u>onsite</u>
	Don operating Express HET; TODD operating G13 HET; Hayden operating Deck boat HET	HET - Don Hayden TODD JAKE
0730	Left Landing	
0800	Arrived @ Icon HA-2/LT-3 Location	<u>ERM</u> - Jody S. Helen C. Emily
	ERM performed vegetation/wildlife study while NEON production photographed, filmed, and flew drone to document area	<u>Liskow</u> - George A. Denise
	- ERM & NEON production performed same duties as above for each location below:	<u>Neon Prod.</u> - Johnathan
0930	Arrived @ HA-1/LT-2 & HA-6 (Icon)	
1100	Arrived @ HA-5/LT-1 & HA-4 (Icon)	
1200	Liskow offsite	
1215	Arrived @ HA-3 (Icon)	
1345	ERM & Neon Production offsite	
1400	- Broke for lunch then moved to IPSE property	



**HYDRO-ENVIRONMENTAL
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Client: Lisbon + Lewis
Project Name: August Levert
Project Location: Plaquemine, La

Project No.: 1009.A62
Date: 6-14-22
Page 1 of

730	arrived offshore unpacked boats	Expens + G3	Don + Hayden	#32 + 29
815	left office			
925	arrived @ landing loaded boats left landing for site visit			
	arrived @ Area of LT-2		picture	
	Pit accessible + PMW 3		picture	
	looked @ PMW 2	picture		
	PMW 1		picture	
	mobile to East cut			
	looked @ PMW 4 + 2 pits		picture	
1130	left Levert - travelled to landing			
1145	arrived @ landing loaded boats			
1215	left landing			
1415	arrived @ office unloaded supplies - packed boats			



**HYDRO-ENVIRONMENTAL
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Client: 18 Lolo & Lewis

Project Name: August Levert

Project Location: Plaquemine, La

Project No.: 1009.A62

Date: 6-20-22

Page 1 of

800	arrived @ office loaded supplies - Express Boat	Don-HET #32
900	talked office	
1030	arrived @ land met w/ Ken Clyde & Trent - Ken's conducted tailgate safety meeting loaded marsh meter on deck boat	
1130	moored to site	
1200	arrived @ first location unloaded marsh meter attempted to gain access looked @ End Area	
1315	moored back to land	
1345	arrived @ land loaded boat	
1400	left land	
1545	arrived @ office	



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: Liskow & Lewis

Project No.: 1009.A62

Project Name: August Levert

Date: 6-29-22

Project Location: Phygenia, La

Page 1 of

700	arrived @ office filled water drum - loaded additional supplies	Trucker 32+29	arrived
745	left office		Don
905	arrived @ landing loaded boats loaded equipment on deck boat traveled out to site		Ken Mearns (H&T) Todd Oyler Frank / Ken ARS Don Chomel EMC Chomel - Jean
1600	left site arrived @ landing loaded Express + G3		
1645	left landing		
1815	arrived @ office unloaded supplies - restocked supplies		



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BORING No. SB-1

PROJECT NAME August Levert
 PROJECT NUMBER 1059-A62
 LOCATION Plaquemine, La
 DRILLING METHOD Marsh meters w/ Casagrande
 SAMPLING METHOD 3 1/4" x 4' steel tube
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DZ
 REMARKS 30.19495 91.33770 ± 9'

DATE STARTED 6-21-22
 DATE COMPLETED 6-21-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement Grout
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -
Total Depth: 4ft

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0.1					2			Clay, s.s., loam, low to med	1.95	1
3.1'	0		10:10			4				2.65	2
						6					
						8					
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. 582

PROJECT NAME August Levert
 PROJECT NUMBER 1009463
 LOCATION Plaquemine, La
 DRILLING METHOD 1" Mech. Drive w/ Casings
 SAMPLING METHOD 3" x 24" Steel Tubes
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DJW
 REMARKS 30.19494 91.33768 ± 9'

DATE STARTED 6-21-22
 DATE COMPLETED 6-21-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0.1					2	0.04		Clay, silt, brownish, low amt, low conductivity, organic	1.78	
1.9	0.1			1110		4	0.1		Clay, silt, low amt, low conductivity, fi	2.24	3
						6					
						8					
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. SB-3

PROJECT NAME August Levert
 PROJECT NUMBER 1209A G2
 LOCATION Plaquemine, La
 DRILLING METHOD Mechanical w/ Casings
 SAMPLING METHOD 3/4" x 4' tube
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DJS
 REMARKS 30.19489 91.37774

DATE STARTED 6-21-22
 DATE COMPLETED 6-21-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT/BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0.5					2			Clay, gray, low to med det, organic	1.05	4
28	0.3		1140			4				2.67	5
						6					
						8					
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. SB4

PROJECT NAME August Levert
 PROJECT NUMBER 1009.463
 LOCATION Plaquemine La
 DRILLING METHOD marshameter w/ Grapple
 SAMPLING METHOD 3/4" x 4' dual tubes
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DJW TW
 REMARKS 30.19 492 91.33768 ± 9'

DATE STARTED 6-21-22
 DATE COMPLETED 6-21-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	1.5					2	2		clay silt - silt clay brown gray, low to med det, wood	0.91	6
2.9	20.4		1210			4	2-29		clay, gray, low med det, low to med det, fr	2.38	7
	0.2					6			clay, gray, low med det, low to med det, wood	1.76	8
3.0			1230			8					
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. _____

SB-5

PROJECT NAME Levert
 PROJECT NUMBER 1009.A1a2
 LOCATION Anguemic LA
 DRILLING METHOD Marsh Auger
 SAMPLING METHOD 3.75 yd. Dial Tube
 GROUND ELEVATION _____
 TOP OF CASING _____
 LOGGED BY TM
 REMARKS 30.19496, -91.333764 +/- 9'

DATE STARTED _____
 DATE COMPLETED 6/21/22
 CASING TYPE/DIAMETER —
 SCREEN TYPE/SLOT —
 SAND PACK TYPE —
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER _____
 GROUNDWATER ELEVATION _____
 TOTAL DEPTH 8' BLS

Recovery

PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	EC.
0.0					2			0-3.4' Clay, w/ silt, gray, low moist, mud pans, Fe	1.85
0.0					4				2.11
0.0					6			6-3' clay, ns above, Fe, organics @ 2.4'	2.14
0.0					8				2.15
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				
					32				
					34				
					36				
					38				
					40				

TV = 8' BLS



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BORING No. SB6

PROJECT NAME August Levert
 PROJECT NUMBER 1009.AB2
 LOCATION Plaquemine, La
 DRILLING METHOD Mercator w/ Geopole
 SAMPLING METHOD 3 1/4" x 4' dual tube
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DJW TRW
 REMARKS 30.19487 91.33762 ± 9'

DATE STARTED 6-21-22
 DATE COMPLETED 6-21-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0					2			Clay, brown-gray, low amt, low to med sh.	1.39	9
2.5	0		1450	27	X	4			Clay, brown-gray, low amt, low to med sh.	2.46	10
	0.1			46	X	6			Clay, gray, low amt, low to med sh.	2.98	11
3.5	0.1		1455			8			Clay, gray, low amt, low to med sh.	2.94	12
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. SB7

PROJECT NAME August Levert
 PROJECT NUMBER 1309.A62
 LOCATION Plaquemine, La
 DRILLING METHOD Mechanical w/ Casing
 SAMPLING METHOD 3 1/2" x 4' dual tubes
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY D. J. W. TW
 REMARKS 30.19488 91.33781 19'

DATE STARTED 6-21-22
 DATE COMPLETED 6-21-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0					2			Cly, brown sng, low mt, low to med det, Fe, organic	1.38	13
3.0'	0		1530	2.4'	X	4				1.48	14
	0					6			Cly, sng, low mt, low to med det wood 0-1.2'	1.41	15
2.4'	0		1530	4.6'	X	8				1.97	16
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. SB-8

PROJECT NAME August Levert
 PROJECT NUMBER 1809.A63
 LOCATION Plaquemine, La
 DRILLING METHOD marsh water w/ angle
 SAMPLING METHOD 3 1/2" x 4 1/2" hole
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DJW TW
 REMARKS 30.19501 91.33784 = 9'

DATE STARTED 6-21-22
 DATE COMPLETED 6-21-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0			0.2	X	2			Clay brown w/gy, low mt, low to med det, fr	1.51	17
2.0	0		1550	2-4	X	4				1.54	
						6					
						8					
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**

Environmental Consultants

Client: Liskow & Lewis

Project No.: 1009.A62

Project Name: Leveret

Date: 6/22/22

Project Location: Plaquemine, LA

Page 1 of 1

0710	Left office in truck # 29 pulling P-3 boat (TARD W. - HET)
0815	Arrived @ Jack Miller's Landing Icon @ Landing unloading Deckboat, outboard, and Marshmaster
0915	Icon went into Town to buy an extra plug for the marshmaster
1040	Icon finished loading equipment; Left Landing with Deckboat pushing marshmaster (Airboat specialist Deck Boat)
1140	Icon began setting up on <u>LT-4</u> w/ marshmaster Geoprobe
1200	Icon began drilling w/ 2.25 x 4' dual tube, pushed to 24' BLS
1240	Finished logging and sampling soil Icon pulled all 2.25" barrels; re-entered same borehole w/ expendable point; pushed to 18' BLS; Set Temporary well @ 13-18' BLS (0.75" PVC) (slotted PVC w/ filter sock) then pulled 2.25" barrel to 12' BLS to reveal screen
1350	Icon began setting up to GW sample <u>LT-4</u> (13-18'), see field parameter sheet for details; poured field blank @ 1400
1600	Icon began grouting temporary well after ^{ground} water sampling pulled all well material and 2.25" barrel, grouted to surface through tremie pipe using ~5 gallons Decombed all pipe and sampling equipment Deposed of water into drum (55 gallon) onsite adjacent to <u>LT-4</u> location; SEE photo Matted Marshmaster to new location
1650	Left Landing for Lafayette
1845	Arrived @ office; unloaded samples



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.

Groundwater Field Parameter Data

Project Name: Leverett

Project No. 1009.A62

Sampled By: ICOW

Rev: 2/17

Well# / Size	Time	Temp. °C	DTW BTWC BTWC	DO mg/l	TDS Specific Conductivity mS/cm PPM	Conductivity mS/cm	pH SU	pH MV	ORP MV	Turbidity NTU	Vol. Purged
LT-4(13-18") 0.75"	1355		Placed tubing @ TD								
Date	1414		Pump on (Peristaltic pump) Low flow								
6/22/22			ICOW is recording water level every as they purge the well w/ water level probe								
Total Depth BTWC			See field notes for water table readings								
25.09'	1418	23.3	13.94'	—	906.5	1277	5.85	—	-5	—	0.5
Water Level BTWC	1423	23.1	13.75'	—	918.6	1287	5.95	—	-41	1115	1
8.99'	1428	23.1	13.95'	—	920.7	1292	6.03	—	-57	—	1.5
Volume	1433	22.9	14.15'	—	919.4	1286	6.13	—	-55	40	2
	1438	22.9	14.24'	—	921.8	1291	6.09	—	-55	40	2.5
Stick Up BTWC	1443	22.7	14.38'	—	922.2	1292	6.19	—	-17	33	3
7.10'	1448	23.1	14.49'	—	920.2	1288	6.20	—	-48	15	3.5
GPS	1453	22.7	14.59'	—	923.7	1292	6.08	—	-52	19	4
	1458	22.7	14.69'	—	922.7	1291	6.13	—	-54	14	4.5
Sample Time											
1500	Number of times dried: <u>0</u>			Analyses: <u>SEE COC</u>							



PROJECT NAME Levert
 PROJECT NUMBER 1009.A62
 LOCATION Plaquemine, LA
 DRILLING METHOD Marsh Master - Geoprobe
 SAMPLING METHOD 2.25 x 4" Dual Tube
 GROUND ELEVATION _____
 TOP OF CASING _____
 LOGGED BY _____
 REMARKS TW
30.19731, -91.34071 +/- 10'

DATE STARTED 6/22/22
 DATE COMPLETED 6/22/22
 CASING TYPE/DIAMETER _____
 SCREEN TYPE/SLOT slotted PVC w/ filter sock / 0.010"
 SAND PACK TYPE NA
 GROUT TYPE/QUANTITY NA
 DEPTH TO WATER _____
 GROUNDWATER ELEVATION _____
 TOTAL DEPTH 24' BLS

Recovery	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	E.C.
0						2			0-1.2' clay, min silt, gray, low moist, low med dens, wood @ 0.0'	
0						4			No Recovery	
0						6			No Recovery	
1.2'	0.0		1220	1602 JAR	X	10			0-1.2' clay as above wood @ 0.5'	1.74
2.2'	0.0		1225	1602 JAR	X	14			1.2-1.8' silt, min clay, gray, saturated, low med 1.8-1.9 clay	1.84
2.1'	0.0		1230	1602 JAR	X	18			1.9-2.2' silt, gray, saturated, low med dens	1.97
2'	0.0		1235	1602 JAR	X	22			0-1.2 clayey silt, gray, damp, low med dens 1.2-2.1 clay, gray, low moist, med-high dens	2.01
						24			0-2' clay, gray, low moist, med-high dens, min organics	
						26				
						28				
						30				
						32				
						34				
						36				
						38				
						40				

TD=24' BLS
 screen @ 13-18' BLS
 Temporary Well



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**

Environmental Consultants

Client: Li, Kow + Lewis

Project No.: 1009.A62

Project Name: August Levert

Date: 6-22-22

Project Location: Plaquesville, Va

Page _____ of _____

7:00 arrived @ office
 filled water truck loaded supplies - hooked up Express Boat

7:30 left office

9:00 arrived @ launch in
 launched Boat
 moved supplies to Deck Boat
 left launch

9:45 arrived @ boat
 moved to next area
 set up to install being
 used push tube for 0.4' or
 pushed 0-9 w/ machrometer + 3 1/2" x 4" dual tubes

on site
 Jen
 Darryl
 Marcus
 Dan HET
 Dan
 Trent
 Katie-Jean



16:30 loaded boat
 left launch
 18:00 arrived @ office
 unloaded + stored samples



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 Environmental Consultants
 91 Apollo Road
 Scott, Louisiana 70583
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BORING No. SB-9

PROJECT NAME August Levert
 PROJECT NUMBER 1509.462
 LOCATION Plaquemine La
 DRILLING METHOD Merrillcrest w/ Geopole
 SAMPLING METHOD 3 1/2" x 4 1/2" dia. 50
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DW DCC
 REMARKS 20.19530 91.33804 ± 9'

DATE STARTED 6-22-22
 DATE COMPLETED 6-22-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement Grout
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0.2					0-0.3			muck,		
20	1.2		1050			0.3-2.0			Clay, sly, low to med water, low dirt, v. fine lim 1.75'		1P
70			1555			0-2'			CLAY, sly above, light wood loss entire at 1.7'		19 20
						2					
						4					
						6					
						8					
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. SD 10

PROJECT NAME August Levert
 PROJECT NUMBER 1009-A-61
 LOCATION Plaquemine La
 DRILLING METHOD Mud Rotary w/ Casings
 SAMPLING METHOD 3 1/2" x 4 1/2" dual tubes
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DJW DCC
 REMARKS 30.19521 91.33798 19'

DATE STARTED 6-22-22
 DATE COMPLETED 6-22-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0.2				X	2			Clay s m, low med, low density, organic fine		19
16	0.7		1135		X	4					
	0.8					6			Clay s m, low med, low density, organic thought		20
19	0.2		1200			8					
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. SB-12

PROJECT NAME August Levert
 PROJECT NUMBER 1009 A 62
 LOCATION Phragmites
 DRILLING METHOD Mud Rotary / 6 inch
 SAMPLING METHOD 3 1/2" x 4' drill stem
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DCC
 REMARKS 30.19521 91.33812 25'

DATE STARTED 6-22-22
 DATE COMPLETED 6-22-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
2.0	42		11:00			2			0-2' CLAY DARK GREY, SATURATED LOW DENSITY, HIGH BRADICG		23
	24.2		14:00			4					
						6					
						8					
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. SB-13

PROJECT NAME August Levert
 PROJECT NUMBER 1009.A.62
 LOCATION Plaquemine, La
 DRILLING METHOD Mudmotor w/ Geopack
 SAMPLING METHOD 3 1/2" x 4" dual tube
 GROUND ELEVATION _____
 TOP OF CASING _____
 LOGGED BY DMW - DCC
 REMARKS 30.19518 91.33795 ± 9'

DATE STARTED 6-22-22
 DATE COMPLETED 6-22-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE _____
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER _____
 GROUNDWATER ELEVATION _____

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0		1530		X	2			0-2.5 CLAY, DARK Grey, D and, low density 0.4' THROUGHOUT		25
2.5'	0		1530		X	4					26
	0.3				X	6			Clay, grey, loam, low to med density, organic		-
1.5'	0.2		1550		X	8					-
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.

Environmental Consultants

Client: Los Comptos

Project Name: August Levert

Project Location: Plaquemine, La

Project No.: 1009.462

Date: 6.23.22

Page 1 of

700 arrived @ office 32+

730 loaded supplies - Express Boat

845 left office

845 Arrived @ Landing

loaded boats w/ supplies

loaded Express

940 left landing

arrived @ first area

on-site

Don

Marcus

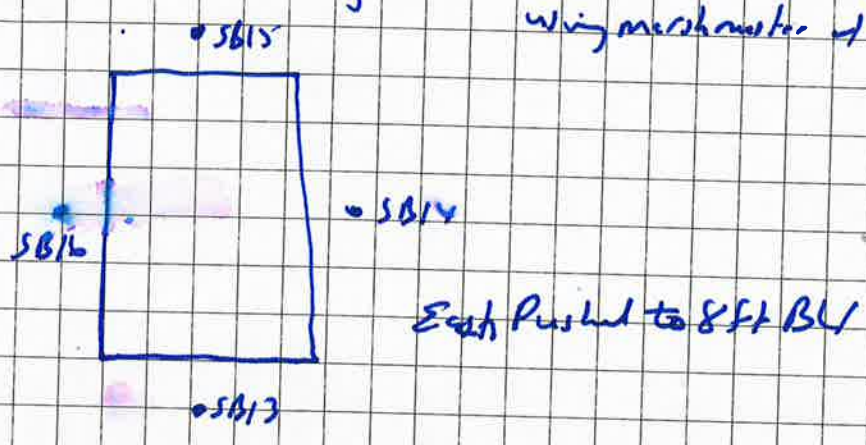
Darryl/HET

Ken

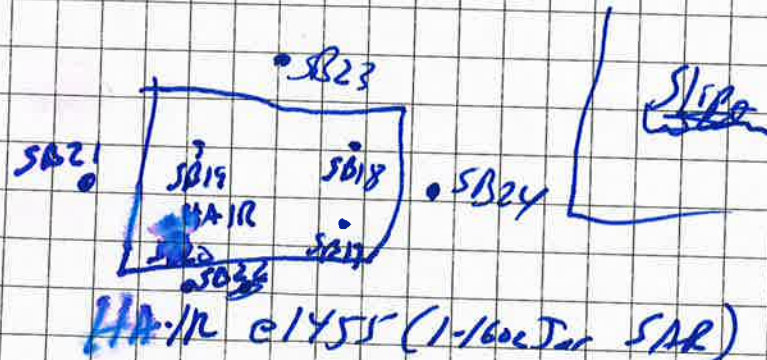
Donald

Travis/Ken

continued w/ boring ground locate for horizontal delineation
w/ing marshmaster of General



no 30' to next



SB21

30.1955

97.34192 ± 9'

1630 1.0 hr landing

1800 ground @ office

unloaded + stored supplies



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**

Environmental Consultants

Client: Liskow & Lewis

Project No.: 1009.A62

Project Name: Leveret

Date: 6/23/22

Project Location: Plaquemine, LA

Page 1 of 1

0650	Left office in truck #29 pulling G-3 (Towed w/ HET)
0810	Arrived @ Jack Millers Landing; unloaded equipment and supplies Launched G-3 ICON (Chase, Dillion, Mason) and Airtocat Specialist (Brice) @ Landing
0845	ICON set up on <u>LT-5</u> w/ marsh master Geoprobe
0855	ICON began drilling w/ 2.25 x 4' dual tube, pushed to 24' BLS
0940	Finished logging and sampling soil ICON pulled all 2.25" barrels and re-entered same borehole w/ expandable point; pushed to 23' BLS
1000	HET poured field blank ICON set well @ 13-23' BLS (0.75" PVC slotted w/ filter sock); pulled up 2.25" barrels to 12' BLS to reveal screen to begin ground water sampling; see field parameter sheet for details
1205	Finished ground water sampling <u>LT-5 (13-23)</u> ICON pulled all 2.25" barrels and grouted well material; grouted to surface through tremie pipe; used ~5 gallons decontaminated equipment (2.25" barrels); disposed of purge water in 55-gallon drum near <u>LT-4</u> location Mopped to next location
1400	Began drilling w/ marsh master Geoprobe @ <u>LT-5</u> , pushed to 28' BLS w/ 2.25 x 4' dual tubes Logged and sampled soil
1500	ICON pulled all 2.25" barrels and grouted to surface using tremie pipe, used ~6 gallon of grout ICON plans to return to <u>LT-6</u> on Monday June 27th to attempt to get a better recovery from 12-20' zone
1530	Left site
1540	Arrived @ Landing loaded boats & equipment
1640	Left Landing for Lafayette
1740	Arrived @ office; unloaded boats & equipment



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.

Groundwater Field Parameter Data

Project Name: Lever4

Project No. 1009.A62

Sampled By: ICON

Rev: 2/17

Well# / Size	Time	Temp. °C	DTW BTOC DO%	DO mg/l	TDS Specific Conductivity mS/cm ppm	Conductivity mS/cm µ	pH SU	pH MV	ORP MV	Turbidity NTU	Vol. Purged
LT-5(1725) 0.75"	1029	ICON placed tubing @ TD and set up peristaltic pump									
Date	1036	Pump on									
6/23/22	1041	23.6	15.20	—	1089	1508	5.67	—	93	—	0.5
Total Depth	1047	23.0	16.99	—	1073	1491	6.09	—	0	17	1
	1053	23.0	18.24	—	1078	1494	6.17	—	-29	12	1.5
Water Level @ 10'	1100	22.8	18.85	—	1077	1495	6.20	—	-48	12	2
5.00'	1107	23.1	18.90	—	1076	1493	6.22	—	-56	11	2.5
Volume	1113	23.5	20.15	—	1118	1544	6.33	—	-47	18	3
Stick Up @ 10'	Note: water level meter inconsistent ^{reading} around 13 gallons water level meter										
5.40'											
GPS											
Sample Time											
1120	Number of times dried: <u>0</u>				Analyses: <u>SEE COC</u>						



PROJECT NAME Leverst
PROJECT NUMBER 1009.A62
LOCATION Plaquemine, LA
DRILLING METHOD Geoprobe marsh master
SAMPLING METHOD 2.25" x 4" Dual Tube
GROUND ELEVATION _____
TOP OF CASING _____
LOGGED BY TW
REMARKS 30.19460, -91.34093 +/- 13'

DATE STARTED 6/23/22
DATE COMPLETED 6/23/22
CASING TYPE/DIAMETER _____
SCREEN TYPE/SLOT _____
SAND PACK TYPE _____
GROUT TYPE/QUANTITY air Portland Cement
DEPTH TO WATER _____
GROUNDWATER ELEVATION _____
TOTAL DEPTH 24' BLS

Recovery	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	F.C.
2.1'	0		0905	1602 JAR	X	2			0-0.2 silt, gray, brown, organics 0.2-2.1' clay, gray, mic silt, low moist, med dens	2.11
1.8'	0	Casing	0910	1602 JAR	X	6			0-1.8' clay, gray, low moist, med dens, wood @ 1.4'	2.39
0.7'	0		0915	No Split	X	10			0-0.7' clay, gray, low moist, med dens, wood, mic silt	1.58
2.4'	0		0920	1602 JAR	X	14			0-1.3' silty clay, clayey silt, gray, low moist, low-med dens 1.3-2.4' silt, gray, med moist, low dens	0.94
4'	0		0925	1602 JAR	X	18			0-3.5' silt, gray, saturated, low dens 3.5-3.7' clay, gray, low moist, med dens	0.77
	0		0930	1602 JAR	X	20			3.4-4' clayey silt, gray, low moist, low dens	0.67
4'	0		0935	1602	X	22			0-1' clayey silt, gray, damp, low dens 1-4' clay, gray, low moist, med dens, clayey silt lens @ 3-3.3'	1.54
	0		0940		↓	24				2.3

TD = 24' BLS

Screen @ 13-23' BLS

Temporary well

~~discarded samples~~ (0-2, 4-6, 8-10, 16-18, 22-24)
* Icon Sample Intervals sent to Lab



PROJECT NAME Leverit
 PROJECT NUMBER 1009.A62
 LOCATION Playa mine, LA
 DRILLING METHOD MARSH MASTER CRISP ROBE
 SAMPLING METHOD 2.25x4' Dual Tube
 GROUND ELEVATION ---
 TOP OF CASING ---
 LOGGED BY TW
 REMARKS 30.19483, -91.33665

DATE STARTED 6/23/22
 DATE COMPLETED 6/27/22
 CASING TYPE/DIAMETER ---
 SCREEN TYPE/SLOT ---
 SAND PACK TYPE ---
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER ---
 GROUNDWATER ELEVATION ---
 TOTAL DEPTH 28' BLS

Recovery	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	E.C.
1.8'	0		1415	1602 JAR	X	2			0-1.8' clay, graybrown, low moist, mod-high dens, fe	1.86
3.1'	0		1420	1602 JAR	X	4			0-3.1' clay, gray, low moist, mod-high dens, fe organics @ 3'	2.66
	0		1425	no split	X	6				2.76
3.3'	0		1430	1602 JAR	X	8			0-3.3' clay, gray, low moist, mod dens, organics @ 1' & 2.2'	2.38
	0		1435	no split	X	10				2.45
1.6'	0		1440	1602 JAR	X	12			0-1.6' clay, gray, low moist, mod dens, wood @ 0.4', 1.2'	2.5
1'	0		1445	no split	X	14			0-1' clay, gray, low moist, mod dens, wood & organics @ 0.4' & 0.9'	2.80
2.3'	0		1450	1602 JAR	X	16			0-2.3' clay, min silt, gray, low moist, mod dens	1.88
4'	0		1455	1602	X	18			0-4' clay, gray, low moist, mod-high dens	1.93
	0		1500	↓	X	20				2.34
						22				
						24				
						26				
						28				
						30				
						32				
						34				
						36				
						38				
						40				

TD = 28' BLS

* Icon sample intervals sent to Lab (0-2, 4-6, 6-8, 16-18, 24-26)



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BORING No. SB14

PROJECT NAME August Levert
 PROJECT NUMBER 1009 ACC
 LOCATION Plaquemine, La
 DRILLING METHOD March method w/ Geopulse
 SAMPLING METHOD 3 1/2" x 4" dual tubes
 GROUND ELEVATION _____
 TOP OF CASING _____
 LOGGED BY _____
 REMARKS 30.19527 91.33799 39'

DATE STARTED 6-23-22
 DATE COMPLETED 6-23-22
 CASING TYPE/DIAMETER =
 SCREEN TYPE/SLOT =
 SAND PACK TYPE _____
 GROUT TYPE/QUANTITY Portulac
 DEPTH TO WATER =
 GROUNDWATER ELEVATION =

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0					2			Clay, brown egg, low to med det organic		-
3.6	0		1045			4					-
	0					6			Clay, grey, low med det organic wood		-
2.7	0.1		1030			8					-
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. 5B15

PROJECT NAME August Levert
 PROJECT NUMBER 1029.462
 LOCATION Plaquemine La
 DRILLING METHOD Mud Rotary w/ Casing
 SAMPLING METHOD 3 1/2" x 4' dual tubes
 GROUND ELEVATION _____
 TOP OF CASING _____
 LOGGED BY DJW DCC
 REMARKS 30.19530 91.33810 89'

DATE STARTED 6-23-22
 DATE COMPLETED 6-23-22
 CASING TYPE/DIAMETER _____
 SCREEN TYPE/SLOT _____
 SAND PACK TYPE _____
 GROUT TYPE/QUANTITY Portland Cement Grout
 DEPTH TO WATER _____
 GROUNDWATER ELEVATION _____

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0.1	2700-2800	1-1600			2			Clay, brownish grey, low sand, low to medium density organic wood		-
20	0.1		100%			4			Clay, grey, low sand, low to medium density organic		-
	0					6					-
23	0.1	2800-2900	1-1000			8					-
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. 5B16

PROJECT NAME August Levert
 PROJECT NUMBER 1209.062
 LOCATION Plantation Ln
 DRILLING METHOD Mechanical w/ Grout
 SAMPLING METHOD 3 1/2" x 4' dual tubes
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY J. D. G.
 REMARKS 30.19515 96.33808 210'

DATE STARTED 6-23-22
 DATE COMPLETED 6-23-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
	0	1-1/2" to 2-5/8"				2			Clay, brownish, low water, 10-15 nodules, organic		-
2.3'	0.1		1/20			4					-
	0.1					6			Clay, grey, low water, low to no nodules, organic		-
30'	0.1		1/30			8					-
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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 Environmental Consultants
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 Scott, Louisiana
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BORING NO. SB11

PROJECT NAME August Levert

PROJECT NUMBER 110000002

LOCATION Plan 110000002

DRILLING METHOD Auger/Probe

SAMPLING METHOD 3/4" probe of casing

GROUND ELEVATION -

TOP OF CASING -

LOGGED BY DTM DCC

REMARKS 20-19556 91.34181 29'

DATE STARTED 6-23-22

DATE COMPLETED 6-23-22

CASING TYPE/DIAMETER -

SCREEN TYPE/SLOT -

SAND PACK TYPE -

GROUT TYPE/QUANTITY POUR 1500 GAL

DEPTH TO WATER -

GROUNDWATER ELEVATION -

RECOVERY

PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm
1.5 91.5	25' to 14' 11/2"	1405	X	2	2			rock	
				4	4				
				6	6				
				8	8				
				10	10				
				12	12				
				14	14				
				16	16				
				18	18				
				20	20				
				22	22				
				24	24				
				26	26				
				28	28				
				30	30				
				32	32				
				34	34				
				36	36				
				38	38				



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
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 Scott, Louisiana 70583
 (337) 261-1908 Fax (337) 261-1953

BORING No. SBIP

PROJECT NAME August Levert
 PROJECT NUMBER 1009-042
 LOCATION Phygas, La
 DRILLING METHOD Manitowoc w/ Casagrande
 SAMPLING METHOD 3 1/2 inch tube
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DJW DC
 REMARKS 30, 1907 91.34/181.291

DATE STARTED 6-23-22
 DATE COMPLETED 6-23-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY P.H. 100 Grt
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT/BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY mS/cm	PICTURE
1.2'	44	2.5m 1-1607	1425	02	X	2			Peat		
						4					
						6					
						8					
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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 (337) 261-1963 Fax (337) 261-1953

BORING No. SB-19

PROJECT NAME August Levert
 PROJECT NUMBER 1839-462
 LOCATION Phagocenia, La
 DRILLING METHOD Hand-dug w/ auger
 SAMPLING METHOD 3 1/2" push tube
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DSW DCC
 REMARKS 30.7/1/35 0.2X

DATE STARTED 6-23-22
 DATE COMPLETED 6-23-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY

PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm
30.7	1-1/2' - 2'	1/35	0.2X		2			Peat	
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				
					32				
					34				
					36				
					38				

CONDUCTIVITY ms/cm

PICTURE



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BORING NO. SB20

PROJECT NAME August Levert
 PROJECT NUMBER 1005153
 LOCATION Highway 6
 DRILLING METHOD Hand-dug w/ auger
 SAMPLING METHOD 2 1/2" split pipe
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DSJ DC
 REMARKS 20.19557 53.334/18.291

DATE STARTED 6-23-22
 DATE COMPLETED 6-23-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY PO-H-188 62L
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY

PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm
0.4	2.1	144	02	X	2			Rock	
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				
					32				
					34				
					36				
					38				



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BORING No. 5B21

PROJECT NAME August Levert
 PROJECT NUMBER 1809.A62
 LOCATION Plaquemine, La
 DRILLING METHOD Mud Rotary w/ Gravel
 SAMPLING METHOD 3 1/4" x 4' double
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DJU DCC
 REMARKS 30.1955T 91.34192 29'

DATE STARTED 6-23-22
 DATE COMPLETED 6-23-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Partial Blue Cont
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY

2.1' 0

PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
		1510	0-2X		2			Clay, gray, low mat. low to med lat, wood		
					4					
					6					
					8					
					10					
					12					
					14					
					16					
					18					
					20					
					22					
					24					
					26					
					28					
					30					
					32					
					34					
					36					
					38					



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BORING No. SB22

PROJECT NAME August Levert
 PROJECT NUMBER 1009.A62
 LOCATION Plaquemine La
 DRILLING METHOD Mechanical w/ Geopla
 SAMPLING METHOD 3/4" x 4' dual tubes
 GROUND ELEVATION _____
 TOP OF CASING _____
 LOGGED BY DW DCC
 REMARKS 30.19548 91.34 128±9'

DATE STARTED 6-23-22
 DATE COMPLETED 6-23-22
 CASING TYPE/DIAMETER _____
 SCREEN TYPE/SLOT _____
 SAND PACK TYPE _____
 GROUT TYPE/QUANTITY Perthite Grout
 DEPTH TO WATER _____
 GROUNDWATER ELEVATION _____

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
1.8'	0		1320	02X		2			Clay, sry, low mt, mod det, wood		
						4					
						6					
						8					
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



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BORING No. SB23

PROJECT NAME August Levert
 PROJECT NUMBER 1009 AB2
 LOCATION Plaquemine La
 DRILLING METHOD Mercator system w/ Grapple
 SAMPLING METHOD 3 1/4" x 4' dual tube
 GROUND ELEVATION -
 TOP OF CASING -
 LOGGED BY DJW DCC
 REMARKS 30.19561 91.3418429'

DATE STARTED 6-23-22
 DATE COMPLETED 6-23-22
 CASING TYPE/DIAMETER -
 SCREEN TYPE/SLOT -
 SAND PACK TYPE -
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER -
 GROUNDWATER ELEVATION -

RECOVERY

PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm
30	0	10:15	02X		2			Clay, 1977, low water, low to medium clay, fr wood	
					4				
					6				
					8				
					10				
					12				
					14				
					16				
					18				
					20				
					22				
					24				
					26				
					28				
					30				
					32				
					34				
					36				
					38				

CONDUCTIVITY ms/cm

PICTURE



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.
 Environmental Consultants
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 (337) 261-1963 Fax (337) 261-1953

BORING No. SB24

PROJECT NAME August Levert
 PROJECT NUMBER 1009. A62
 LOCATION Plaquemine La
 DRILLING METHOD Mechanical w/ Grapple
 SAMPLING METHOD 3 1/2" x 4' dual tubes
 GROUND ELEVATION —
 TOP OF CASING —
 LOGGED BY DJW DCC
 REMARKS 30.7955g 91.34174 ± 9'

DATE STARTED 6-23-22
 DATE COMPLETED 6-23-22
 CASING TYPE/DIAMETER —
 SCREEN TYPE/SLOT —
 SAND PACK TYPE —
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER —
 GROUNDWATER ELEVATION —

RECOVERY	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT/BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONDUCTIVITY ms/cm	PICTURE
						2			Clay, sry, cement, watered by, fr, wood		
						4					
						6					
						8					
						10					
						12					
						14					
						16					
						18					
						20					
						22					
						24					
						26					
						28					
						30					
						32					
						34					
						36					
						38					



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**

Environmental Consultants

Client: Lisakow & Lewis

Project No.: 1009.A62

Project Name: August Levert

Date: 6-24-22

Project Location: Plaquemine, LA

Page 1 of

715	arrived offshore	Don-HET #32
	loaded supplies - ExpressBoat	
730	left office	
900	arrived @ landing	
	launched boat	- conducted target safety meeting
930	left landing	
	arrived on site	
	loaded marshmaster on deck - secured	
	mobilized boat to landing	
	offloaded marshmaster	
	loaded all equipment in my truck	
1100	left landing	
1230	arrived @ office	
	unloaded equipment	



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: Liskow & Lewis
Project Name: Leverf
Project Location: Plaquemine, LA

Project No.: 1009.A62
Date: 6/27/22
Page 1 of 1

0700	Left office in truck #29, pulling G1-3 (Todd W. & Darryl C. - HET)
0815	Arrived @ Jack Miller's Landing; unloaded G1-3 & equipment ICON onsite (Chase, Mason, Dillion) w/ outboard and Airboat Specialist (Brace) w/ Deck boat
0840	ICON set up on <u>LT-6</u> w/ marsh master; pushed w/ 2.25" x 4' Dual Tube with point to 16 to get more recovery from 16-80' Clay, gray, lammasst, muddears, organics and wood w/ 5' recovery; No well will be set at this location ICON pulled all 2.25" barrels and grouted borehole to surface using a tremie pipe Decommed all 2.25" barrels; secured marsh master to deck boat and began moving to the next location
1120	ICON set up on <u>LT-7</u> w/ marsh master, pushed to 16' BLS 28' BLS w/ 2.25" x 4' Dual tubes, logged and sampled soil ICON returned to landing to get 3 more 4' barrels to push to 40' BLS; logged and sampled soil pulled all 2.25" barrels and grouted to surface through tremie pipe Icons moved over a few feet and began drilling to 9' BLS w/ expendable point; set well @ 4-9' BLS (0.75" PVC w/ filter sock, slotted PVC) pulled up barrels to 4' BLS to reveal screen to ground water sample; see field parameter sheet for details
1445	Icons pulled well material and 2.25" barrels; placed tremie pipe @ TD and grouted to surface; decommed all barrels loaded boats and equipment @ landing
1610	Left site
1720	Arrived @ office



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.

Groundwater Field Parameter Data
 Project Name: Leverett
 Project No. 1009.A62
 Sampled By: Icon

Rev: 2/17

Well# / Size	Time	Temp. °C	DO%	DO mg/l	TDS Specific Conductivity mS/cm ppm	Conductivity mS/cm	pH SU	pH MV	ORP MV	Turbidity NTU	Vol. Purged
IT-7(4") 0.75"	1408	Icon began setting up low flow peristaltic pump									
Date	1412	Placed tubing @ TD									
6/27/22	1414	Pump on ; began purging well									
Total Depth	1417	Well drying, Icon lowers speed of pump - well producing very little water									
12.95'	1422	Dry well ; pump off - removed tubing									
Water Level	1425	Icon placed tubing @ TD and began purging well									
11.42'	1429	Well Dry - pump off - removed tubing									
Volume											
Stick Up											
4.45'											
GPS											
Sample Time											
NA	Number of times dried: 2x				Analyses: NA						



PROJECT NAME Levert
 PROJECT NUMBER 1009.A62
 LOCATION Plaquemine, LA
 DRILLING METHOD Marsh Master - Geoprobe
 SAMPLING METHOD 2.25 x 4' Dual Tube
 GROUND ELEVATION _____
 TOP OF CASING _____
 LOGGED BY TW
 REMARKS 30.22370, -91.33857

DATE STARTED 6/27/22
 DATE COMPLETED 6/27/22
 CASING TYPE/DIAMETER PVC / ~~0.021000~~ 0.75"
 SCREEN TYPE/SLOT Slotted PVC w/ filter sock / 0.010"
 SAND PACK TYPE NA
 GROUT TYPE/QUANTITY Portland Bentonite
 DEPTH TO WATER _____
 GROUNDWATER ELEVATION _____
 TOTAL DEPTH 40' BLS

Depth (ft BLS)	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	F.C.
0 - 2.6'	0	OKING	1130	80Z JAR	X		#	0-0.9' silt, brown, low moist, low dens 0.9-2' silty clay, gray brown, low moist, mod dens 2-2.6' silt, min clay, gray brown, low moist, low dens	1.01
0 - 1.8'	0	NAHIVE	1135	80Z JAR	X		#	0-1.8' clayey silt, gray brown, mod moist, low dens	0.84
0 - 1.4'	0		1140	80Z JAR NO SPLIT	X		#	0-0.2' clay, gray, low moist, mod dens 0.2-0.5' silt, gray, damp, low dens 0.5-1.2' clay, gray, low moist, mod dens 1.2-1.4' wood, silt, gray, damp, low dens	1.48
0 - 0.6'	0		1145	NO SPLIT	X		#	0-0.6' clay, gray, low moist, mod dens, organics	1.66
0 - 1.6'	0		1150	80Z JAR	X		#	0-1.6' clay, gray, low moist, mod dens, wood @ 0.4'	1.55
0 - 1.6'	0		1155	80Z JAR	X		#	0-1.6' clay, gray brown, low moist, mod dens	1.65
0 - 2.1'	0		1200	80Z JAR	X		#	0-2.1' clay, brown, low moist, mod dens	1.54
0 - 2.5'	0		1250	80Z JAR	X		#	0-2.5' clay, brown gray, low moist, mod dens	1.4
0 - 1.7'	0		1255	80Z JAR	X		#	0-1.7' clay, gray, low moist, mod dens, organics	1.72
0 - 2.2'	0		1315	80Z JAR	X		#	0-2.2' clay, gray AS ABOVE	1.66

TD = 40' BLS
 Screen @ 4-9' BLS Temporary well
 August Levert_BP Plan_010022



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: LEKOW & LEWIS

Project No.: 1009.A62

Project Name: Levert

Date: 6/28/22

Project Location: PLAQUEMINE, LA

Page 1 of 1

0700	Left office @ in truck #29, pulling G-3 (Darryl + TOND - MET)
0810	Arrived @ Jack Millers Landing; unloaded G-3 and Equipment of ICON (CHASE, DILLON, MASON) w/ outboard and Richard specialist (BRICE) w/ Deck boat modified to LT-8 and began setting up marsh master
0900	Began drilling w/ 2.25" x 4' Dual Tubes - pushed to 40' BLS Logged and sampled soil
1025	ICON pulled all 2.25" barrels, placed tremie pipe @ TD, grouted to surface through tremie pipe Moved over a couple feet; pushed 2.25" barrels w/ expendable point to 24' BLS, set well @ 14-24' BLS (0.75" PVC slotted screen w/ filter sock); pulled barrels up to 14' BLS to reveal screen and began ground water sampling - see field parameter sheet for details
1240	Finished GW sampling; ICON pulled all well material and barrels; grouted hole to surface using tremie pipe @ TD
#	ICON decommissioned equipment and moved to next location
1320	ICON set up on LT-9 w/ marsh master Geoprobe; pushed to 24' BLS; logged and sampled soil; pulled all 2.25" barrels - reentered same borehole w/ expendable point, pushed to 24 18' BLS; set well @ 8-18' BLS (0.75" PVC slotted w/ filter sock) - Temporary well; pulled up barrels to 8' BLS to reveal screen to ground water sample see field parameter sheet for details
1545	Finished GW sampling; ICON pulled all well material and 2.25" barrels; placed tremie pipe @ TD and grouted to surface ICON disposed of all purge water in 55-gallon drum onsite @ LT-4 location
1630	Left site
1745	Arrived @ office; unloaded supplies & samples



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.

Groundwater Field Parameter Data
 Project Name: Levert
 Project No. 1009.A62
 Sampled By: ICOW

Rev: 2/17

Well# / Size	Time	Temp. °C	DO%	DO mg/l	TDS Specific Conductivity mS/cm ppm	Conductivity mS/cm	pH SU	pH MV	ORP MV	Turbidity NTU	Vol. Purged
UT-2(14-24") 0.75"	1105										
Date	1107										
6/29/22	1114	22.6	—	—	1186	1635	6.23	—	-72	39	0.5
Total Depth B10C	1121	22.7	—	—	1189	1635	6.33	—	-87	31	1
28.05'	1128	22.8	—	—	1189	1633	6.42	—	-90	15	1.5
Water Level B10C	1136	22.6	—	—	1190	1637	6.44	—	-90	10	2
5.45'	1143	22.3	—	—	1188	1634	6.40	—	-97	17	2.5
Volume											
Stick Up B10C											
3.5'											
GPS											
Sample Time											
1145	Number of times dried: <u>0</u>				Analyses: <u>See COC</u>						



HYDRO-ENVIRONMENTAL TECHNOLOGY, INC.

Groundwater Field Parameter Data
 Project Name: 1609. A62
 Project No. Leveret
 Sampled By: Icon

Rev: 2/17

Well# / Size	Time	Temp. °C	DO%	DO mg/l	TDS Specific Conductivity mS/cm <i>ppm</i>	Conductivity mS/cm	pH SU	pH MV	ORP MV	Turbidity NTU	Vol. Purged
<u>119(9-8") / 0.75"</u>	<u>1440</u>	<u>Icon placed tubing @ TD and set up to purge well w/ Perastaltic pump</u>									
Date	<u>1443</u>	<u>Pump on - began purging well</u>									
<u>6/28/22</u>	<u>1446</u>	<u>24.1</u>	<u>—</u>	<u>—</u>	<u>1275</u>	<u>1685</u>	<u>6.56</u>	<u>—</u>	<u>-69</u>	<u>—</u>	<u>0.5</u>
Total Depth <i>BT06</i>	<u>1451</u>	<u>23.1</u>	<u>—</u>	<u>—</u>	<u>1219</u>	<u>1674</u>	<u>6.56</u>	<u>—</u>	<u>-93</u>	<u>826</u>	<u>1</u>
<u>22.0'</u>	<u>1456</u>	<u>22.6</u>	<u>—</u>	<u>—</u>	<u>1213</u>	<u>1668</u>	<u>6.67</u>	<u>—</u>	<u>-93</u>	<u>34</u>	<u>1.5</u>
Water Level <i>BT06</i>	<u>1501</u>	<u>22.4</u>	<u>—</u>	<u>—</u>	<u>1212</u>	<u>1668</u>	<u>6.51</u>	<u>—</u>	<u>-97</u>	<u>20</u>	<u>2</u>
<u>5.80'</u>	<u>1506</u>	<u>22.6</u>	<u>—</u>	<u>—</u>	<u>1214</u>	<u>1670</u>	<u>6.52</u>	<u>—</u>	<u>-100</u>	<u>17</u>	<u>2.5</u>
Volume											
Stick Up <i>BT06</i>											
<u>4.45'</u>											
GPS											
Sample Time											
<u>1510</u>	Number of times dried: <u>0</u>				Analyses: <u>SEE COL</u>						



PROJECT NAME Leverit
 PROJECT NUMBER 1009.A62
 LOCATION Plaquemine, LA
 DRILLING METHOD Marsh MASTER - Geoprobe
 SAMPLING METHOD 2.25 x 4" Dual Tube
 GROUND ELEVATION _____
 TOP OF CASING _____
 LOGGED BY TW
 REMARKS 30.22505, -91.34100 +/- 10'

DATE STARTED 6/28/22
 DATE COMPLETED 6/28/22
 CASING TYPE/DIAMETER PVC/0.75"
 SCREEN TYPE/SLOT slotted PVC w/ filter sock / 0.010"
 SAND PACK TYPE NA
 GROUT TYPE/QUANTITY Portland Bentonite
 DEPTH TO WATER _____
 GROUNDWATER ELEVATION _____
 TOTAL DEPTH 40' BLS

Recovery	PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	F.C.
1.1'	0		0900	No Split	X	2			0-1.1' clayey silt, gray, saturated, Lu dens	0.52
0.9'	0	Casing	0905	No Split	X	4			0-0.9' silt, gray, mic clay, saturated, Lu dens	0.44
2.3'	0		0910	8oz JAR	X	8			0-2' silt, gray as above, clay lens @ 0.4-0.9'	0.21
1.2'	0		0915	No Split	X	10			2-2.3' clay, gray, Lu moist, mod dens	0.92
2.5'	0	Native	0920	8oz JAR	X	12			0-1' silty clay, clayey silt, gray, damp, Lu dens 1-1.2' silt, gray, mod moist, Lu dens	1.03
4'	0		0925	8oz JAR	X	16			0-1.5' silty clay, gray, damp, Lu-mod dens 1.5-2.5' silt, gray, saturated, Lu dens, clay lens @ 1.8, 2-2.2'	0.74
2.8'	0		0925	↓	X	18			0-4' silt, gray, saturated, Lu dens	0.86
2.5'	0		0930	8oz JAR	X	22			0-2.5' clay, ^(1.3-1.7') mic silt, gray, Lu moist, mod dens	1.48
2.7'	0		0930	No Split	X	24			2.5-2.8' silt, gray, Lu moist, Lu dens	1.83
2.5'	0		0935	8oz JAR	X	26			0-2.5' clay, gray, Lu moist, mod dens	1.62
2.7'	0		0940	8oz JAR	X	30			0-2.7' clay, as above	1.60
2.7'	0		0945	8oz JAR	X	32			0-2.7' clay, gray, mic silt, Lu moist, mod dens	1.58
	0		0945	No Split	X	34				1.29
					X	36				
					X	38				
					X	40				

TD=40' BLS
 Screen @ 14-24' BLS
 August Leverit_BP Plan_010026
 Temporary well



PROJECT NAME Levert
 PROJECT NUMBER 1009.A6a
 LOCATION Bayoune, LA
 DRILLING METHOD Marsh Master Geoprobe
 SAMPLING METHOD 2.25" Dual Tube
 GROUND ELEVATION ---
 TOP OF CASING ---
 LOGGED BY TW
 REMARKS 30.22423, -91.34317 +/- 10'

DATE STARTED 6/28/22
 DATE COMPLETED 6/28/22
 CASING TYPE/DIAMETER PVC/0.5"
 SCREEN TYPE/SLOT slotted PVC w/ Filter sock/0.010
 SAND PACK TYPE N/A
 GROUT TYPE/QUANTITY Portland Cement
 DEPTH TO WATER ---
 GROUNDWATER ELEVATION ---
 TOTAL DEPTH 24' BLS

PID (ppm)	SCREENED INTERVAL	SAMPLE TIME	SAMPLE ID	EXTENT	DEPTH (FT BLS)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	γ _s
0		1330	802 Split	X	2			0-0.5' silt, gray, damp, low dens	1.34
0		1335	802 SAR	X	6			0.5-0.9' clay, gray, low moist, med dens	1.23
0		1340	802 SAR	X	8			0.9-1.3' silt, med clay, gray, damp, low-median	0.58
0		1345	802 SAR	X	10			1-1.5' Silt, min clay, gray, med moist, low dens	1.03
0		1350	802 SAR	X	12			0-0.9' silt/clay, gray, low moist, med dens	0.98
0		1355	802 SAR	X	14			0.9-1.9' silt, gray, saturated, low dens	0.98
0		1355	802 SAR	X	16			0-2.5' silt, min clay, gray, med moist to sat, low dens	0.90
0		1355	802 SAR	X	18			0-2.1' silt, min clay, gray, sat, low dens	0.86
0		1355	802 SAR	X	20			2.1-3.7' clay, gray, min silt, low moist, med dens	0.90
0		1355	802 SAR	X	22			0-2.3' clay, gray, min silt, low moist, med dens	0.90
0		1355	802 SAR	X	24				
0		1355	802 SAR	X	26				
0		1355	802 SAR	X	28				
0		1355	802 SAR	X	30				
0		1355	802 SAR	X	32				
0		1355	802 SAR	X	34				
0		1355	802 SAR	X	36				
0		1355	802 SAR	X	38				
0		1355	802 SAR	X	40				

TB = 24' BLS
 Screen @ 8-18' BLS
 Temporary well



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**

Environmental Consultants

Client: Liskow + Lewis
 Project Name: August Levert
 Project Location: Plaquemine, La

Project No.: 1009.462
 Date: 7-28-22
 Page 1 of

Time	Activity	Trucks	Personnel
700	arrived @ office loaded supplies	32	Don
730	left office	25	Todd
845	arrived @ Jack millers landing launched G3 Express + Cabin boat	31	Marcus Hayden / HET
915	left landing en route to site opened wells MW1 - MW10 collected w/c's from all wells Closed all wells also Marcus collecting elevations of LT-1, LT2, LT3, LT4, LT5 elevation adjacent to all 3 pits + transects across canals		Matt Cody Bernard } Marcus Cheri - Fern
Stop on SB11			
	30.19526 91.33808 ± 9'		
	collected 4-6 & 6-8 by hand Auger		Attempts were made previously w/ marshmaster but could not get past 4ft BML @ SB11 & SB12
	4-6 @ 1325 6-8 @ 1340		
	PID: 4-6 = 138 ppm 6-8 = 107 ppm gray clay, low sand, low to med silt		
Stop on SB12			
	30.19521 91.33812 ± 9'		
	hand augered to a depth of 4' below mud line - hit obstruction moved over 1' hand auger to depth (4' BML) hit obstruction attempted to move location in vicinity of SB12 + hit obstruction @ 4' BML - abandoned location		
	Picked up base		
1530	left site + traveled to landing		
1545	arrived @ landing loaded boats + unloaded supplies		
1615	left landing (Jack Millers)		
1730	arrived @ office unloaded + stored supplies		



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: Liskow & Lewis
Project Name: Leveret
Project Location: plaquemine, LA

Project No.: 1009.A62
Date: 7/28/22
Page 1 of 1

Water Levels

Monitor Well

Depth BTOC

MW-7	5.25'
MW-9	7.66'
MW-10	8.84'
MW-2	7.20'
MW-3	6.14'
MW-1	8.21'
MW-4	2.65'
MW-5	2.93'
MW-6	3.26'
MW-8	4.44'



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**

Environmental Consultants

Client: Liskow + Lewis

Project Name: August Levert

Project Location: Plaquemine, LA

Project No.: 1009.A62

Date: 8/9/22

Page 1 of 1

- 0650 - Left NET to assist w/ C-K Associates wetland Delineation -
Matt/Andy in truck #27 w/ Express boat & Hayden/Jake
in truck #20 w/ deck boat
- 0820 - Arrived @ Jack Miller's Landing
- Wade Bryant + Taylor Turner - CK Associates
- Denice Rodd-Robinette - Liskow + Lewis
- Chan Johnson - IOWA } @ Jack Miller's
- 0845 - Conducted safety talk/sign in
- Launched boats
- 0920 - Arrive on site
- Begin conducting Wetland Delineation
- 1330 - Completed wetland delineation for day - will return on 8/10/22
- 1345 - Arrive @ Jack Miller's
- Load boats/sign out
- 1410 - Left Jack Miller's

* CK Associates collected all data regarding the wetland delineation



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**

Environmental Consultants

Client: Liskow & Lewis

Project No.: 1009.A62

Project Name: August Levert

Date: 8/10/22

Project Location: Plaquemine, LA

Page 1 of 1

- 0650 - Left HET to assist CK Associates w/ a Wetland Delineation -
Matt / Jake in truck #27 w/ xpress boat + Hayden
in truck #20 w/ deck boat

- 0810 - Arrived @ ~~the~~ Jack Miller's landing
 - Wade Bryant - CK
 - Chase Jobart - ICOW } @ Jack Miller

 - Signed in / Safety talk
 - Launched boat

- 0850 - Arrived on site
 - Begin Wetland delineation

- 1300 - Completed wetland delineation
 - Arrive @ Jack Miller

 - Load boats / Grab lunch

- 1400 - Left Jack Miller's

* CK Associates collected all data regarding Wetland Delineation



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**

Environmental Consultants

Client: Liskow & Lewis

Project No.: 1009.A62

Project Name: August Levert

Date: 8/16/22

Project Location: Plaquemine, LA

Page 1 of 1

0650 - Left NET - MG/SB in truck #31 w/ G3 boat +
HW/SV in truck #25 w/ deck boat to conduct
Root Zone Investigation

On-Site	
Matt G.	} NET
Jake B.	
Hayden V.	
Jake V.	
Chase J.	- ICAW

0815 - Arrived @ Jack Miller's landing
- ICAW @ Jack Miller's
- Conduct Safety Talk / Sign in
- Launch boats / head to site

0845 - Arrive on site
- Locate Tree T-01 - Green Ash
- Review roots + soils @ T-01

1035 - Arrive @ Tree T-02 - Nuttall Oak
- Review roots + soils @ T-02

1305 - Arrive @ Tree T-03 - Water Tupelo
- Review roots + soils @ T-03

1450 - Completed root zone investigation for day
- Arrive back @ Jack Miller's landing
- Load boats

1520 - Sign out / Leave Jack Miller's

* All root zone specific data noted on NET Root Zone Data Forms
* USGS 07381450 Lower Grand River @ Bayou Sorrel, LA Gage height (feet)
6.61 - 6.71



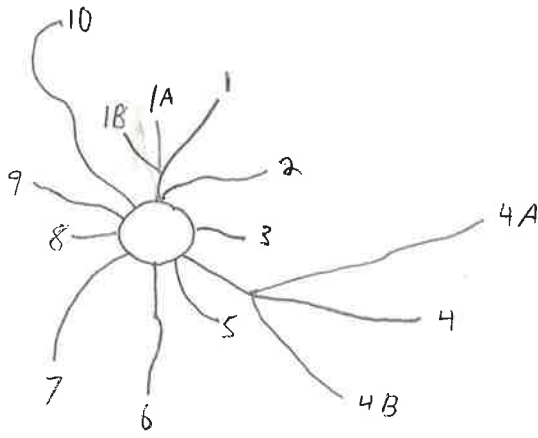
State: LA	Parish: Iberville	Section: 15	Township: 10S	Range: 11E	Date: 8/14/22	Location: T-01
Project/Site: August Levert			Investigator(s): Matt Greene			
Latitude: 30.196586		Longitude: 91.3417571		Datum: NAD83		Other Info:

TREE SPECIES: Green Ash				Circumference: 38.5"				DBH: 12.25"			
Root Number	Total Length (Inches)	Distance to deepest point (Inches)	Depth BLS (Inches)	Random Distance (RD) (Inches)	Depth BLS (Inches)	RD (Inches)	Depth BLS (Inches)	RD (Inches)	Depth BLS (Inches)	RD (Inches)	Depth BLS (Inches)
1	71	50	3.5	40	1.5						
1A	48	48	4								
2	58	46	4	30 (switch)	9						
3	31	25	4								
4	125	68	3.5	118	1.5						
4A	137	112	3.5	68	.5						
4B	111	100	5	60	4.5						
5	39	22	1.5								
6	80	64	1.5	32 (switch)	3						
7	74	62	2.5	39 (switch)	9						
8	25	21	3.5								
9	52	32	8								
10	137	105	3	64	surf						

*
18

Illustration/Remarks:

↗



0.5" of surface water

SOIL PROFILE PROPERTIES

Soil Type: **Fines**

Depth BLS (inches)	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
	Color (moist)	%	Color (moist)	%	Type	Loc				
0-2	10YR 3/2						Much Clay Clay	O _a A B _g	0.80	
2-8	10YR 5/2	60	7.5YR 4/6	40					0.77	
8-13	5Y 5/1	80	7.5YR 4/6	20					0.77	

Additional Colors:

Restrictive Layer(if observed):	Type:	Depth (inches):
---------------------------------	-------	-----------------

18 48" 3"



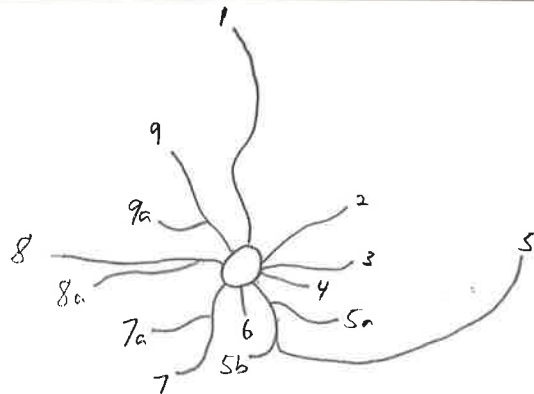
State: LA Parish: Iberville Section: 15 Township: 105 Range: 11E Date: 8-16-22 Location: T-02
 Project/Site: August Levert Investigator(s): Matt Greene
 Latitude: 30.19716258 Longitude: -91.34159665 Datum: NAD83 Other Info:

TREE SPECIES: Muttall Oak Circumference: 26" DBH: 8.28"

Root Number	Total Length	Distance to deepest point	Depth BLS	Random Distance (RD)	Depth BLS	RD	Depth BLS	RD	Depth BLS	RD	Depth BLS
	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)
1	154	130	3	75	2.5						
2	60	54	1	32	1						
3	58	44	4								
4	36	28	2								
5	160	134	3.5	92	5.5						
5a	58	55	2								
5b	64	62	3.5								
6	32	29	4								
7	70	57	1								
7a	47	39	4.5								
8	110	98	3	58	2.5						
8a	83	77	6.25	39	2						

Illustration/Remarks:

↑ N



* Depth 8a
Top 6.25
Root 0.5" thick

No SL

SOIL PROFILE PROPERTIES

Soil Type: Fawn

Depth BLS (inches)	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
	Color (moist)	%	Color (moist)	%	Type	Loc				
0-1.5	10YR 3/2						Silt mc		<u>O_a</u>	0.80
1.5-8.5	10YR 4/1	60	7.5YR 4/6	40			Clay		<u>A</u>	0.77
8.5-15	5Y 4/1	80	7.5YR 4/6	20			Clay		<u>B_g</u>	0.77

Additional Colors:

Restrictive Layer(if observed): Type: Depth (inches):

9 68 62 2
9a 46 36 3



State: LA Parish: Iberville Section: 15 Township: 10S Range: 11E Date: 8-16-22 Location: 7-03
 Project/Site: August Levert Investigator(s):
 Latitude: 30.95782 Longitude: -91.357697 Datum: NAD83 Other Info:

TREE SPECIES: Water Tupelo Circumference: 44" DBH: 14"

Root Number	Total Length	Distance to deepest point	Depth BLS	Random Distance (RD)	Depth BLS	RD	Depth BLS	RD	Depth BLS	RD	Depth BLS
	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)
1	31	21	5								
2	33	27	9.5								
3	42	22	12								
4	62	54	9								
5	25	22	15								
6	32	25	17								
7	33	27	8								
8	27	20	15								
9	34	29	16								
10	36	33	8								
11	49	33	10.5								
12	28	12	7								

Illustration/Remarks:

Water Depth: 3"
Savanna Pecan Throughout

SOIL PROFILE PROPERTIES

Soil Type: Barbary

Depth BLS (inches)	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
	Color (moist)	%	Color (moist)	%	Type	Loc				
0-2	10YR 3/2						Muck		Oa	0.85
2-5	10YR 4/2						MC		A	0.80
5-24	5Y 5/1	60	7.5YR 4/4	40			Clay		Cg	0.77

Additional Colors:
 Restrictive Layer(if observed): Type: Depth (inches):

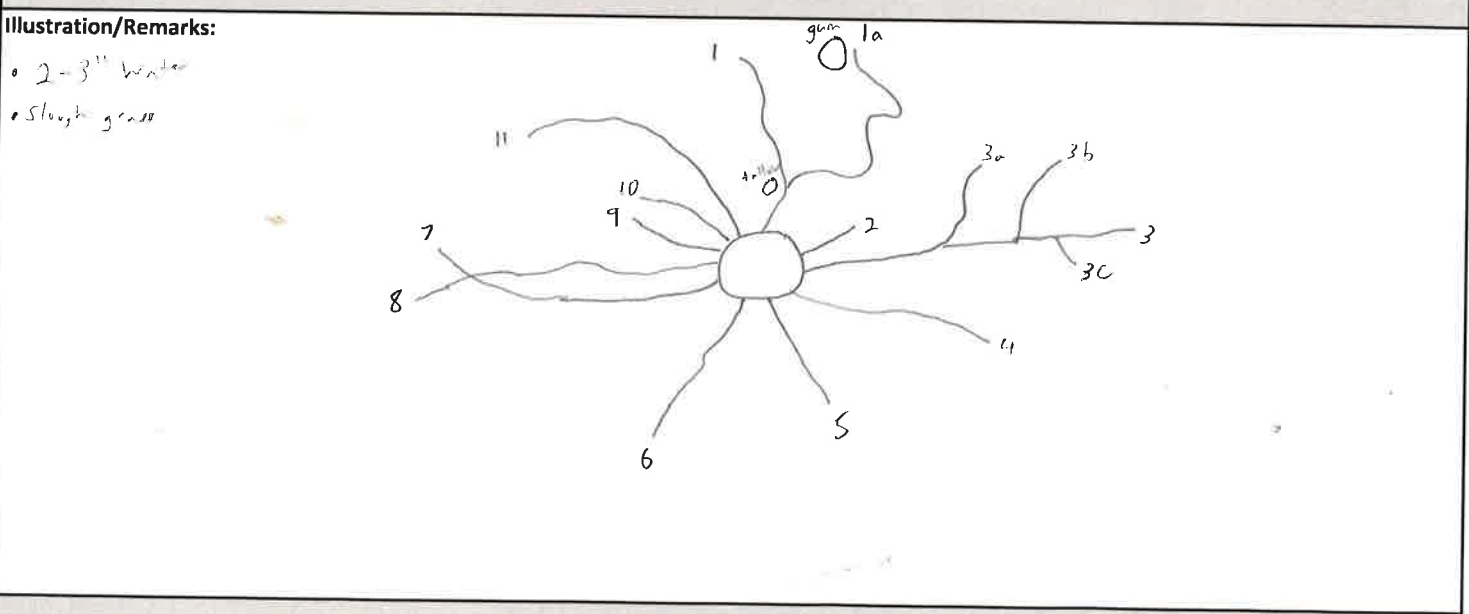
13 26 21 18
 14 37 32 19
 15 47 20 10



State: LA Parish: _____ Section: _____ Township: _____ Range: _____ Date: 8/17 Location: T-04
 Project/Site: August Levert Investigator(s): _____
 Latitude: 30.195597 Longitude: -91.33808 Datum: NAD83 Other Info: _____

TREE SPECIES: Cypress Circumference: 66" DBH: 21.0"

Root Number	Total Length	Distance to deepest point	Depth BLS	Random Distance (RD)	Depth BLS	RD	Depth BLS	RD	Depth BLS	RD	Depth BLS
	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)
1	189	264	20	156	4						
2	28	23	22								
3	215	178	16	51	17						
3a	129	98	7								
3b	162	136	10								
3c	170	159	4	9							
4	105	84	14	47	9						
5	87	60	14	35	22						
6	150	54	22	109	8						
7	182	33	9	106	8						
8	190	116	6	57	14						
9	35	27	13								



SOIL PROFILE PROPERTIES

Soil Type: Barbony

Depth BLS (inches)	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
	Color (moist)	%	Color (moist)	%	Type	Loc				
0-2	10YR3/3						MUCK		A _{0a}	0.85
2-8	10YR4/2	80	7.5YR4/2	80			STAY ME		A _{0a}	0.80
8-18	5Y5/1	70	7.5YR4/6	30			Clay		C _g	0.77

Additional Colors: _____
 Restrictive Layer(if observed): Type: _____ Depth (inches): _____

10	50	20	26			
11	151	44	12	105	17	
1a	219	100	6	54	26	



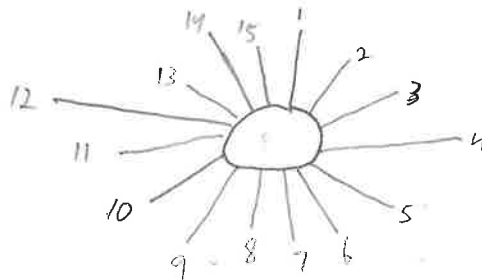
State: LA Parish: Iberville Section: _____ Township: _____ Range: _____ Date: 8/17/23 Location: 7-05
 Project/Site: August Levert Investigator(s): _____
 Latitude: 30.194983 Longitude: -91.338295 Datum: NAD83 Other Info: _____

TREE SPECIES: Water Tupelo Circumference: 51" DBH: 16.23

Root Number	Total Length	Distance to deepest point	Depth BLS	Random Distance (RD)	Depth BLS	RD	Depth BLS	RD	Depth BLS	RD	Depth BLS
	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)	(Inches)
1	35	28	17								
2	42	29	10								
3	46	29	13								
4	55	42	19								
5	35	29	10								
6	34	29	11								
7	37	17	12								
8	26	19	28								
9	33	29	22								
10	36	25	12								
11	45	28	23								
12	59	50	15								

Illustration/Remarks:

- Water Pipes 0.5-2"
- Slough Lines
- ~~Slough Lines~~
- Trapped Vial



SOIL PROFILE PROPERTIES

Soil Type: Burbery

Depth BLS (inches)	Matrix		Redox Features				Texture	Horizon	Remarks	N-Value
	Color (moist)	%	Color (moist)	%	Type	Loc				
0-2	10YR 5/2						Muck	Oa		
2-5	10YR 4/2	80	7.5YR 4/6	30			MC	Bw	Oa A	0.85
5-25	5Y 5/1	70	7.5YR 4/6	36			Clay	Bwg	Cg	0.80 0.77

Additional Colors:

Restrictive Layer(if observed): _____ Type: _____ Depth (inches): _____

13	22	13	17
14	44	29	5
15	35	25	24



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**

Environmental Consultants

Client: Liskow + Lewis

Project Name: August Levert

Project Location: Plaquemine, LA

Project No.: 1009.A62

Date: 8/17/22

Page 1 of 1

0650 - Left HET - MG/JS in truck #33 w/ Xpress boat +
HW/JV in truck #31 w/ deck boat to conduct
Root Zone Investigation

On-site
Matt G. } HET
Jude B. }
Hayden W. }
Jake V. }
Chase J - ICON
Nolan C. - ERM
Denise - L&L

0815 - Arrived @ Jack Miller's Landing
- ICON, ERM, L&L @ Jack Miller's
- Conduct safety talk / sign in
- Launch boats / head to site
- ERM / L&L observing pointing of R2 Investigation +
Reviewing ICON's HA-4 Location

0915 - Arrive on site
- Locate Tree T-04 - Cypress
- Review roots + soils @ T-04
- Note: Date on picture board should read 8/17/22 NOT 8/16/22

1130 - ERM / L&L off site / sign out

1255 - Arrive @ Tree T-05
- Review roots + soils @ T-05

1430 - Completed root zone investigation for day
- Arrive back @ Jack Miller's Landing
- Load boats

1500 - Sign out / Leave Jack Miller's

* All root zone specific data noted on HET Root Zone Data Forms

* USGS 07381450 Lower Grand River @ Bayou Surrel, LA Gauge height (feet)
6.33 - 6.61



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**

Environmental Consultants

Client: Liskow & Lewis
Project Name: August Levert
Project Location: Plaquemine, LA

Project No.: 1009.A62
Date: 8/18/22
Page 1 of 3

0720 - Left NET - MG in truck #33 w/ xpress boat & HW/SV in truck #31 w/ deck boat to conduct Root Zone Investigation

On-site
Matt G.
Hayden W. } AET
Jake V. }
Chase J. - ICON

0840 - Arrive @ Jack Miller's Landing
- ICON @ Jack Miller
- Conduct safety talk/sign in
- Launch boats/head to site

0925 - Arrive on site to review site vegetation & ICON's prepared remedial areas
- Vegetation East of Willow Lake (Lower Area)
- Overstory: Mainly Cypress & Water Tupelo w/ occasional Red Maple
- Understory: Cypress, Water Tupelo, Chinese Tallow, Swamp Privet
- Ground cover/uses: Slough grass, Lizard's Tail, Trumpet Creeper

- Vegetation East of Willow Lake (Spill Area)
- Overstory: American Elm, Green Ash, Sugarberry, willow, Sycamore, Chinese Tallow, Water Oak, Nuttall Oak, Red Maple
- Understory: Reproduction of Overstory
- Ground Cover: Briar, Palmetto, fern, Japanese Climbing fern

ICON Remedial Area East of LT3

- Overstory: Red Maple, willow, Green Ash, Nuttall Oak, American Elm, Chinese Tallow
- Understory: Reproduction of Overstory
- Ground cover: Slough Grass

ICON Remedial Area Near LT3

- Overstory: Green Ash, American Elm, Chinese Tallow, Red Maple
- Understory: Reproduction of Overstory
- Ground Cover/Floating: Slough Grass, Sphornia
- Area is surrounded by Cypress, Tupelo, & Slough Grass



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: Liskow & Lewis

Project No.: 1009.A62

Project Name: August Levert

Date: 8/18/22

Project Location: Plaquemine, LA

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ICOM Remedial Area LT6

- Overstory: American Elm, Sycamore, Red Maple, Water Oak, Nuttall Oak
- Understory: Water Oak, Nuttall Oak
- Ground cover: Japanese Climbing Fern, Green Briar, Fern

Vegetation West of Willow Lake (Lower Area)

- Overstory: Red Maple, American Elm, Green Ash, Cypress, Nuttall Oak, Sugarberry, Bitter Pecan, Overcup Oak, Occasional Water Tupelo
- Understory: Reproduction of Overstory, Swamp Pinel
- Ground cover: Slough Grass

Vegetation West of Willow Lake (Spill Areas)

- Overstory: Red Maple, American Elm, Green Ash, Sycamore, Water Oak, Sugarberry, Nuttall Oak, Chinese Tallow, Box Elder
- Understory: Reproduction of Overstory
- Ground cover: Japanese Climbing Fern, Green Briar, Thistle, Sedges, Golden Rod, Peppervine

ICOM Remedial Area NA4

- Overstory: American Elm, Box Elder, Green Ash, Water Oak, Sugarberry
- Understory: Reproduction of Overstory
- Groundcover / vines: Green Briar, Golden Rod, Peppervine, Trumpet Creeper

ICOM Remedial Area LT1

- Overstory: Red Maple, American Elm, Green Ash, Bitter Pecan, Cypress, Chinese Tallow
- Understory: Reproduction of Overstory

ICOM Remedial Area LT2

- Overstory: American Elm, Red Maple, Black Willow, Hackberry, Chinese Tallow, Green Ash
- Understory: Reproduction of Overstory
- Ground cover: Slough Grass



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: Liskow & Lewis

Project Name: August Levert

Project Location: Plaquemine, LA

Project No.: 1009.A62

Date: 8/18/22

Page 3 of 3

ICON Remedial Area HAG

- Mainly contained slough grass
- Surrounding Overstory & Understory: Cypress, American Elm, Swamp Privet, Occasional Water Tupelo

* All near exhibited excellent growth & indication of reproduction (saplings)

- 1230 - Completed review of vegetation
- Arrive back at Jack Millers
 - Load boats

- 1330 - Sign out / Grab Lunch

* USGS 07381450 Lower Grand River @ Bayou Surrel, LA Gauge height (feet)
5.99 - 6.40



**HYDRO-ENVIRONMENTAL
TECHNOLOGY, INC.**
Environmental Consultants

Client: Lidker Levert

Project No.: 1009.462

Project Name: August Levert

Date: 9-27-22

Project Location: Plaquemine, La

Page 1 of

		Truck	Boat	on site
700	arrived @ office loaded supplies	32	63	Don
715	left office	20	Druckboot	Todd
845	arrived @ Jack Miller's Land loaded boats + traveled to site	32		Brent / HEP Hayden
900	arrived on site collected 0-2 @ SB-6R 0940 - placed in 16oz Jar 0-2 @ SB-7R 0950 " - "			Chris - Icon
	collected 0-2 @ SB-2) 1020 30.19508867 - 91.33788248 ± 2' 0-2 @ SB 5R @ 1035 - placed in 16oz Jar 6-8' SB-5R @ 1110			Clay brown loam, banded LR ob' clay, gray, loam, banded 6-8 silt/clay, gray, med. mod. med. banded
	collected 0-2 @ SB 25 @ 1050 placed in 16oz Jar 2-4 @ SB 25 @ 1100 " - "			Clay, gray, loam, banded med. banded, f _o
	30.19498536 - 91.33759258 ± 4'			
	collected 0-2 @ SB 26 @ 1120 2-4 @ SB 26 @ 1130			Clay gray, loam low to med density, f _o
	30.19506277 - 91.3376022 ± 2'			
	placed cutting in 5 bags SB 6R, SB 7R, SB 25-2) 5 total SB 5R			
1200	left site + traveled to landy arrived @ landy - loaded boats on trailer			
1230	left Jack Miller's Landy			
1500	arrived @ office unloaded equipment - store supplies			