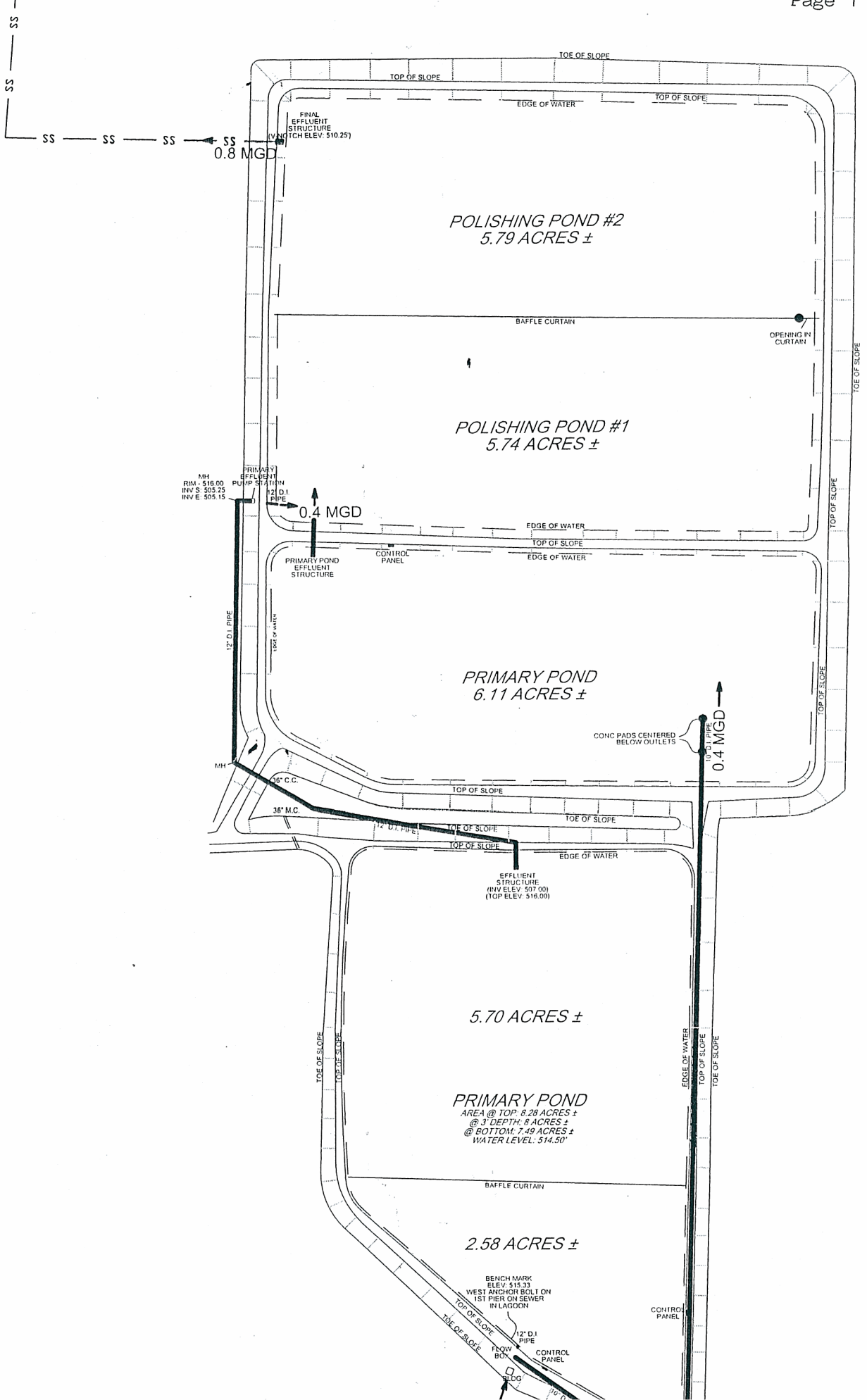
SCALE: 1" = 200'


SS
SS
SS
SS
SS
SS
0.8 MGD
FINAL EFFLUENT STRUCTURE (V-NOTCH ELEV: 510.25')
TOE OF SLOPE
TOP OF SLOPE
EDGE OF WATER
TOP OF SLOPE
POLISHING POND #2
5.79 ACRES ±
BAFFLE CURTAIN
OPENING IN CURTAIN
TOE OF SLOPE
POLISHING POND #1
5.74 ACRES ±
MH
RIM - 516.00
INV S: 505.25
INV E: 505.15
PRIMARY EFFLUENT PUMP STATION
12" D.I. PIPE
0.4 MGD
EDGE OF WATER
TOP OF SLOPE
EDGE OF WATER
PRIMARY POND EFFLUENT STRUCTURE
CONTROL PANEL
12" D.I. PIPE
EDGE OF WATER
TOP OF SLOPE
PRIMARY POND
6.11 ACRES ±
CONC PADS CENTERED BELOW OUTLETS
10" D.I. PIPE
0.4 MGD
MH
36" C.C.
36" M.C.
TOP OF SLOPE
TOE OF SLOPE
12" D.I. PIPE
TOE OF SLOPE
TOP OF SLOPE
EDGE OF WATER
EFFLUENT STRUCTURE (INV ELEV: 507.00) (TOP ELEV: 516.00)
5.70 ACRES ±
PRIMARY POND
AREA @ TOP: 8.28 ACRES ±
@ 3' DEPTH: 8 ACRES ±
@ BOTTOM: 7.49 ACRES ±
WATER LEVEL: 514.50'
BAFFLE CURTAIN
2.58 ACRES ±
BENCH MARK
ELEV: 515.33
WEST ANCHOR BOLT ON
1ST PIER ON SEWER
IN LAGOON
CONTROL PANEL
TOP OF SLOPE
TOE OF SLOPE
12" D.I. PIPE
FLOW BOX
CONTROL PANEL
SLOG

City of Red Bay
Wastewater Discharge Permit
Summary
December 5, 2005

1.	Permit Renewal Draft	October, 2003
2.	Draft Comment Period	November –December, 2003
3.	Renewal Permit Final	January, 2004
4.	First Testing for Fecal Coliform	January, 2004
5.	First Fecal Violation Report	February, 2004

6. Violations have been relatively regular since that time. Some variations in count (colonies/100ml) (1 part per billion) – Permit Limit is 2000/100 ml – daily max, 1000/100 ml average

7. Testing has been done on raw sewage from manholes in various parts of town to try to determine of a specific site is contributing to the problem. These tests have indicated there is not one source that is the problem.

8. The lagoon itself has some structural problems that we feel are contributing to the problem. The baffle system in the polishing pond is allowing the wastewater to short-circuit the system. The discharge control valves are also malfunctioning and causing fluctuations in the water levels. Short-term (5 years)

9. The solution to the problem is to take the following steps:

   A. Repair/replace the existing baffle between the polishing ponds and repair/replace discharge control valves.
   B. Add a chlorination/de-chlorination system to the existing polishing pond. A secondary benefit will be less algae which has also caused violations (suspended solids)
   C. Work should be designed and out for bids by April or May 2006 and work should be done in June, July and August of 2006. ADEM should be notified.

10. The long-term solution to the problem is to plan, design and build a new wastewater treatment facility. The existing lagoon receives an average of 530,000 gallons per day. The wettest months of the year receive over 700,000 gallons per day (I & I). In addition the BOD loading of the facility averages about 2500 lbs./day (permit is for 2000 lbs./day) so the lagoon is already operating at or above both the hydraulic and biological capacity of the facility.

    A new lagoon would require at least 40 acres of land and could cost in excess of $2,000,000 excluding land costs.

Red Bay Lagoon
Chlorination/De-chlorination Project
Preliminary Cost Estimate
Dec. 2005

Item No.	Unit	Quantity	Item	Unit Cost	Total Cost
1	250	Cu.Yd.	Compacted Fill Material	$8.00	$2,000.00
2	1	Ea.	8' X 10' Precast Concrete Building	$12,000.00	$12,000.00
3	1	Ea.	MIOX Hypo Chlorination System w/Controls	$28,000.00	$28,000.00
4	1	Ea.	MIOX De-chlorination Systems w/Controls	$22,000.00	$22,000.00
5	1,000	L.F.	6" PVC Piping	$12.00	$12,000.00
6	1	Ea.	Discharge Control Valve	$6,500.00	$6,500.00
7	780	L.F.	Baffle Curtain	$64.00	$49,920.00
8	1	L.S.	Grassing and Erosion Control	$1,500.00	$1,500.00
			Subtotal Construction		**$133,920.00**
			Engineering		
			Design	$12,450.00	
			Inspection	$7,760.00	
					$20,210.00
			Total Project Cost		**$154,130.00**

HANKINS AND REED
CIVIL ENGINEERS & LAND SURVEYORS
PH: 205/695-9137 • FAX: 205/695-9287 • E-MAIL: mail@hankinsreed.com
44750 HIGHWAY 17 • PO BOX 527 • VERNON, ALABAMA 35592

CITY OF RED BAY
STREET RESURFACING PROJECT - 2005
CDBG PROJECT NO. LR-CM-PF-02-008

BIDS RECEIVED ON DECEMBER 2, 2005 UNTIL 10:00 AM

CONTRACTOR	BASE BID	REMARKS
Tri-County Concrete Construction PO Box 586 Guin, AL 35563	$36,735.00	AL Lic. # 17133
APAC-Southeast 110 West 2nd Street Muscle Shoals, AL 35661	$27,076.95	AL Lic. # 17886

Certified Correct - December 2, 2005

Heath Reed, PE

ALABAMA LICENSED No. 26076 PROFESSIONAL ENGINEER HEATH REED

McDOWELL & BEASON, P.C.

ATTORNEYS AT LAW

DANIEL G. McDOWELL
EDDIE BEASON
BRIAN HAMILTON

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P.O. BOX 818
RUSSELLVILLE, ALABAMA 35653
TELEPHONE: (256) 332-1660
FAX #(256) 332-0318

JOE FINE
OF COUNSEL

November 16 2005

VIA FAX AND U.S. MAIL

Linda Holcomb, Clerk
City of Red Bay
P.O. Box 2002
Red Bay, AL 35582

Dear Linda:

Enclosed please find a copy of a letter I received from Jeff Bowling, the attorney for the Red Bay Water Works and Gas Board. Please provide a copy of this letter to the Mayor all of the council members. Please bring this to the attention of the Mayor and have it placed on the agenda for the next regularly scheduled meeting, if he so desires.

Best regards,

Brian Hamilton

BH/jeb
Enc.

Brian ... address Council

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JEFFREY L. BOWLING
JOHN A. McREYNOLDS IV

OF COUNSEL:
ROGER H. BEDFORD, SR.

WM. W. (BILL) BEDFORD (1923-1992)

November 3, 2005

Hon. Brian Hamilton
McDowell & Beason, P.C.
Post Office Box 818
Russellville, Alabama 35653

(VIA FACSIMILE – HARD COPY TO FOLLOW)

RE: CITY OF RED BAY

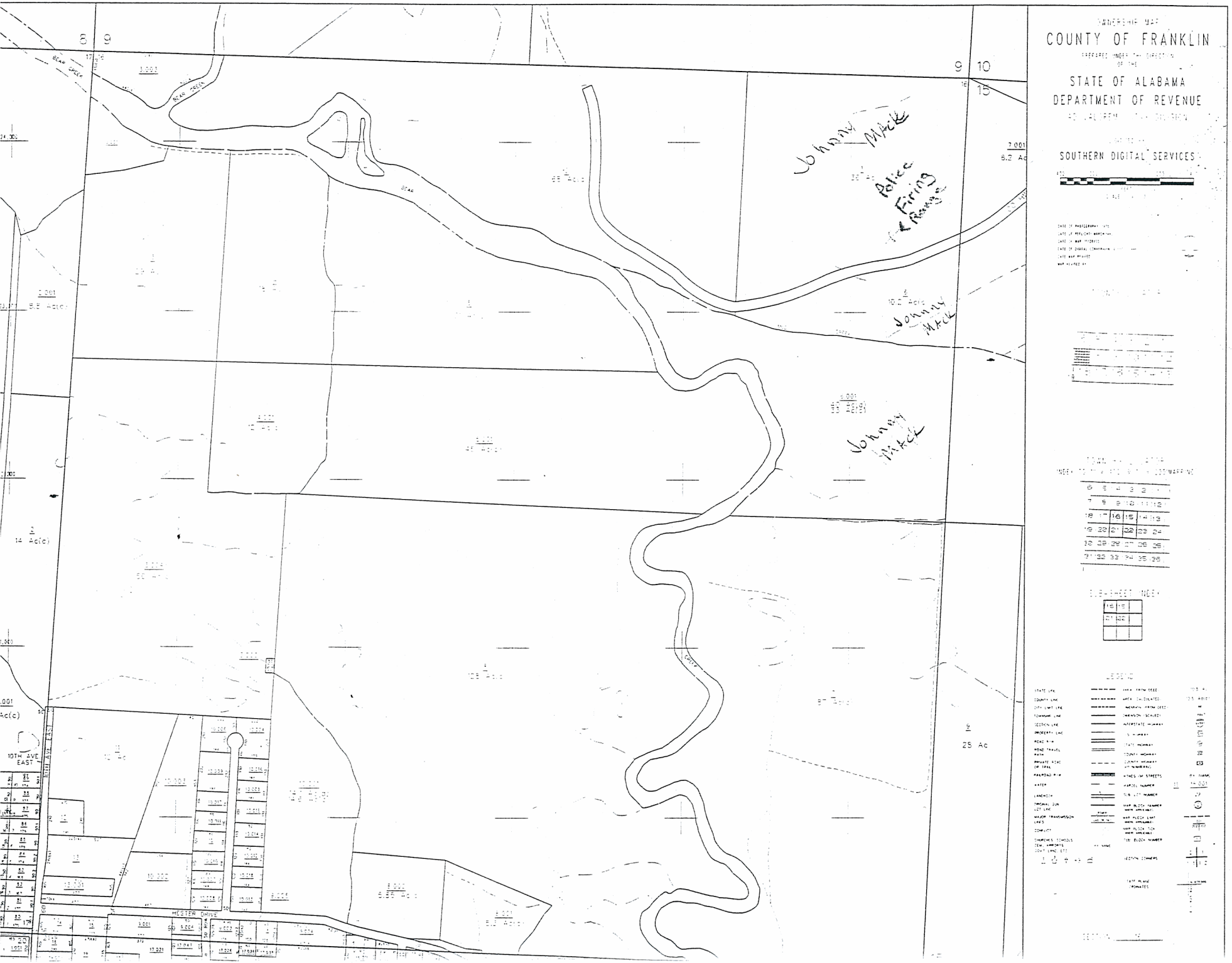
Dear Brian:

I am sure you are aware the City of Red Bay has appointed Councilperson Ann Wilkins to serve on the Board of Directors for the Red Bay Water Works & Gas Board. Additionally, the City of Red Bay had previously appointed Councilperson Jeff Reid to serve on the Board of Directors for the Red Bay Water Works & Gas Board. On behalf of the Water Works & Gas Board I have been requested to contact you as attorney for the City of Red Bay and request that the City of Red Bay rescind said appointments. I am attaching hereto the Articles of Incorporation for the Water Works & Gas Board. Said Articles of Incorporation reflect that, "None of the members of the said board of directors shall be an officer of the Town of Red Bay". The Articles were amended in 1984 so as to allow for a 5 member board of directors rather than a 3 member board, but the prohibition against "officers of the Town of Red Bay" serving as a member of the Board of Directors was not removed. As stated above, the Red Bay Water Works & Gas Board, is requesting that during the Red Bay City Council meeting held on the 7th day of November, 2005, that the City rescind the appointments of Jeff Reid and Ann Wilkins to the Board of Directors of the Water Works & Gas Board, due to their being an officer of the Town of Red Bay. If the City Council decides that they do not wish to rescind said appointments, the Water Works & Gas Board plans to seek any and every remedy available to it to protect and uphold its Articles of Incorporation.

If you have any questions feel free to contact me at my office.

Yours truly,

Jeffrey L. Bowling



OWNERSHIP MAP

COUNTY OF FRANKLIN

PREPARED UNDER THE DIRECTION OF THE

STATE OF ALABAMA DEPARTMENT OF REVENUE

AD VALOREM TAX DIVISION

SOUTHERN DIGITAL SERVICES

DATE OF PHOTOGRAPHY
DATE OF RECTIFICATION
DATE OF MAP REVISION
DATE OF DIGITAL CONVERSION
DATE MAP PLOTTED
MAP REVISED BY

TOWNSHIP INDEX

INDEX TO MAPS OF SECTIONS

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30	29	28	27	26	25	
31	32	33	34	35	36	

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21	22

LEGEND

STATE LINE
COUNTY LINE
CITY LIMIT LINE
TOWNSHIP LINE
SECTION LINE
PROPERTY LINE
ROAD R/W
ROAD TRAVEL PATH
PRIVATE ROAD OR TRAIL
RAILROAD R/W
WATER
LANDLOCK
ORIGINAL SUB LOT LINE
MAJOR TRANSMISSION LINES
CONFLICT
CHURCHES, SCHOOLS, CEM., LANDMARKS, GOVT. LAND ETC.

SURVEY TRAVERSE LINE
RECORD (PLAT) DEED
MEASURED
CALCULATED
INTERSTATE HIGHWAY
U.S. HIGHWAY
STATE HIGHWAY
COUNTY HIGHWAY
COUNTY HIGHWAY (UNNUMBERED)
STREETS OR STREETS
PARCEL NUMBER
SUB LOT NUMBER
MAP BLOCK NUMBER (WITHIN SUBDIVISION)
MAP BLOCK LIMIT (WITHIN SUBDIVISION)
MAP BLOCK TIER (WITHIN SUBDIVISION)
TIER BLOCK NUMBER
SECTION CORNERS
STATE PLANE COORDINATES

105 Ac
25 Ac(c)
25 Ac(c)
15.001
72
SECTION 12

OWNERSHIP MAP
COUNTY OF FRANKLIN
STATE OF ALABAMA
DEPARTMENT OF REVENUE
SOUTHERN DIGITAL SERVICES
7
15 Ac(d)
6.5 Ac(c)
CO. HWY. 25
CO. HWY. NO. 28
PUBLIC RD
Johnny Mack
outdoor center
36 Ac(c)
10.2 Ac(c)
18 Ac(d)
46 Ac(c)
15 Ac(d)
80 Ac(d)
BOYD MILL BRANCH
TRANSMISSION LINE
480(s)
660(s)
SUB-SHEET INDEX
LEGEND