

Exhibit 'B'

State Department of Water Quality Wastewater Letter



GARY R. HERBERT

Governor

GREG BELL Lieutenant Governor Department of Environmental Quality

Amanda Smith Executive Director

DIVISION OF WATER QUALITY Walter L. Baker, P.E. Director Water Quality Board
Paula Doughty, Chair
Steven P. Simpson, Vice-Chair
Myron E. Bateman
Clyde L. Bunker
Merritt K. Frey
Darrell H. Mensel
Leland J. Myers
Neal L. Peacock
Gregory L. Rowley
Amanda Smith
Daniel C. Snarr
Jeffery L. Tucker
Walter L. Baker
Executive Secretary

August 29, 2011

Mr. Curtis Christensen Weber County Engineer 2380 Washington Blvd. 2nd Floor Ogden, Utah 84401

Dear Mr. Christensen:

Subject:

Bison Creek Subdivision, Weber County

Conceptual Approval for Wastewater Treatment and Dispersal

We have reviewed the basic design proposal received on August 25, 2011. A field inspection was made to this site on July 21, 2011 to witness and review several soil holes and percolation tests being conducted. Based on the information presented and the field inspection, it appears that the development of this 22 lot subdivision is conceptually approvable. This letter constitutes our conceptual approval of the proposal for wastewater treatment and dispersal, subject to the following conditions:

- 1. The site visit and ground water table monitoring results indicate water tables near the surface of the ground, but with shallow installation of drainfield trenches, will meet the criteria for alternative system design.
- 2. This site being considered for a large community wastewater disposal system will need to address the sensitivity of being near Pineview Reservoir and the shallow water table, by requiring a higher level of effluent treatment system, with system maintenance and monitoring rules. According to your proposal in using the Advantex pre-treatment units, effluent quality will meet these characteristics: BOD-25mg/l; TSS-25mg/l; TKN-20mg/l. These numbers will be the basis of conceptual approval and monitoring level parameters.
- 3. Total drainfield area must equal to 2- full sized drainfields serving as the primary drainfield with a redundant field, and 1- full sized drainfield area, serving as the reserve area. Pressurized timed dosing will be the method of distribution.
- 4. A Body Politic will be required for this system per R317-5-1.6 (A). Therefore, a letter

Bison Creek Subdivision Concept Letter August 29, 2011 Page 2

confirming this agreement and acceptance will need to be submitted along with the engineering reports and final construction plans.

If you have any questions regarding this letter, please contact David Snyder, of my staff, at 801-536-4329.

Sincerely,

Utah Water Quality Board

Walter L. Baker, P.E. Executive Secretary

WLB:DGS:dgs

cc: Chris Hudon, Greyduke LLC

Brian Cowan, Weber Morgan Health Department

File: Weber County

F:\WEBER-MORGAN CO\BisonCreekconcept.doc



WEBER-MORGAN HEALTH DEPARTMENT

GARY M. HOUSE, M.P.H. Health Officer / Director

August 3, 2011

Division Directors
KAY LARRISON, Administration
CLAUDIA PRICE, Nursing & Health Promotion
LOUIS K. COOPER, Environmental Health
COLLEEN JENSON, WIC

Greyduke LLC 6300 N. Sagewood Drive Ste. 459 Park City, UT 84098

RE:

Wastewater Site and Soils Evaluation

Bison Creek Ranch

8150 E. Highway 39 Huntsville

An evaluation of the site and soils at the above-referenced address was completed by staff of this office in conjunction with an evaluation by David Snyder of DEQ July 21, 2011. The exploration pits are located on the enclosed plat developed during the site evaluation along with the assigned numerical code for each exploration pit. The soil horizons, required percolation depths, actual and anticipated maximum ground water tables have been logged as follows:

Exploration Pit #1 GPS 12 T 0437546 UTM 4568378 ±16' 0 -17" silt loam, granular structure 17-32" clay loam, massive structure Ground water was observed at 32"

Exploration Pit #2 GPS 12 T 0437547 UTM 4568397 ±10' Soils were the same as exploration pit #1 Ground water was observed at 34"

Exploration Pit #3 GPS 12 T 0437546 UTM 4568354 ±9' The same top two layers as exploration pits 1 and 2 35-51" gravelly loam, sandy/silty, 80% gravel Ground water observed at 35"

Exploration Pit #4 GPS 12 T 0437024 UTM 4568208 ±9' 0-35" silt Ioam, granular structure Ground water observed at 35"

Percolation tests are to be conducted in all three soil horizons of Exploration Pit #3, along with excavation and soil classification for two more confirmation holes in the general area. Exploration pits should be backfilled immediately upon completion of percolation testing to prevent a hazardous environment that may cause death or injury to people or animals.

Percolation tests may be completed by any individual included on the enclosed list. The stabilized percolation test results are to be submitted to this office for review prior to the recommendation for further development to the appropriate planning agency or prior to the issuance of a wastewater disposal permit.

If you have any further questions, contact this office at your convenience.

Sincerely,

Michela Glachell Michela Gladwell, LEHS Environmental Health Division 801-399-7178



WEBER-MORGAN HEALTH DEPARTMENT

GARY M. HOUSE, M.P.H. Health Officer / Director

May 31, 2011

Division Directors
KAY LARRISON, Administration
CLAUDIA PRICE, Nursing & Health Promotion
LOUIS K. COOPER, Environmental Health
COLLEEN JENSON, WJC

Greyduke LLC 6300 N Sagewood Dr. Suite # 459 Park City, UT 84098

Subject: Water Table Monitoring located at approximately 8150 E Hwy 39, in Huntsville UT. Land serial#s; 21-003-0001, 21-007-0007, 21-010-0002, 21-010-0005, 21-010-0006, 21-010-0021, 21-010-0023, 21-010-0025, 21-010-0026, 21-010-0028, 21-010-0041, 21-011-0019, 21-026-0005, 21-026-0007, and 21-026-0054

This letter is to notify you of the results for the water table monitoring that was conducted on your properties. Monitoring was performed from February 11, 2011 through May 3, 2011. In an attempt to clearly associate each purposed lot with the correct water table monitoring ports, the following nomenclature has been used; the lots are identified with the lot numbers denoted in the purposed subdivision plan (concept plan) created by Stantec Consulting titled "Concept Plan No. 2", additionally the water table monitoring ports associated with each lot are denoted using the symbology (WMHD MP#-#) next to the lot number.

The water table for lot numbers; 106 (WMHD MP31-33) and 109 (WMHD MP 28-30) remained below 36 inches throughout the monitoring period. Therefore, a Conventional Wastewater Disposal System with a maximum trench depth of 12 inches would be suitable with respect to water table.

The water table for lot number 107(WMHD 34-36) remained below 42 inches throughout the monitoring period. Therefore, a Conventional Wastewater Disposal System with a maximum trench depth of 18 inches would be suitable with respect to water table.

The water table for lot numbers; 108 (WMHD MP 37-39), and 112 (WMHD MP 10-12) remained below 24 inches throughout the monitoring period. Therefore an At-Grade Wastewater Disposal System with a maximum trench depth of 0 inches, would be suitable for the properties with respect to water table.

The water table for lot numbers; 104 (WMHD MP16-18), 105 (WMHD MP19-21), 110 (WMHD MP 22-24), 111 (WMHD MP13-15), and 203 (WMHD MP 64-66) remained below 12 inches throughout the monitoring period. Therefore, a Wisconsin Mound or Packed Bed Media System would be suitable for the properties with respect to water table.

Unfortunately, the ground water level for lot numbers; 101 (WMHD MP 7-9), 102 (WMHD MP 4-6), 103 (WMHD MP1-3), 113 (WMHD MP 25-27), 201 (WMHD MP 40-42), 202 (WMHD MP 43-45), 204 (WMHD MP 61-63), 205 (WMHD MP 58-60), 206 (WMHD MP55-57), 207 (WMHD MP 52-54, 208 (WMHD MP 49-51), and 209 (WMHD MP 46-48) exceeded 12 inches, which in accordance with Weber-Morgan Health Department Onsite Wastewater Treatment Systems Regulation R317-4 eliminates the possibility of placing an onsite wastewater system on the monitored properties. The following are the pertinent portions of the R317-4 regulation;

R317-4.5.2 In areas where absorption systems are to be constructed, the elevation of the anticipated maximum ground water table shall be at least 24 inches below the bottom of the absorption system excavation.

R317-4.3.3(L) If there is evidence that the ground water table ever rises to less than two feet from the bottom of the proposed absorption systems, onsite wastewater absorption systems will not be approved.

The Weber-Morgan Health Department does not assert that this property meets zoning, subdivision or any other development feasibility requirements.

If not already accomplished, the following requirements must be satisfied in accordance with Weber-Morgan Health Department Onsite Wastewater Treatment System Regulation R317-4, before the Weber-Morgan Health Department is able to issue a letter of feasibility for residential development on the property:

- 1. Approval of onsite systems in western Weber County is made in accordance with the "Ground Water Management Plan for Western Weber County," (adopted by the Weber-Morgan Board of Health 27 August 2001). The plan addresses replacement systems and density requirements.
- 2. Drinking water. Culinary drinking water must be provided by an approved public water system or an approved private well. Properties to be served by a public water system must provide our office with a letter from the utility company, documenting that the system is capable of provided water to the property. If a private well is to be used, the well must be permitted and approved by a member of this office.
- 3. Soils evaluation. Soil exploration pits shall be made at the minimum rate of one exploration pit per lot proposed. There must be at least four feet of suitable soil below the bottom of the absorption bed, and at least three feet of suitable soil below native ground surface. Application and guidance for soils evaluation are available at the health department.
- 4. Percolation tests. Tests must be performed by a certified individual, and results must be submitted to our office. A list of certified individual is available at the health department.

Once feasibility has been demonstrated, and the following requirements have been satisfied, the

health department will then be able to issue an "Onsite Wastewater Disposal Permit;"

- 1. System design. Alternative systems must be designed by a Certified, level 3 onsite system professional or other qualified professional. The system must be designed in accordance with Utah State Rule, R317-4, "Onsite Wastewater Systems" and "Weber-Morgan Health Department Rules for Individual Wastewater Systems."
- 2. Building plans. Plans must include the property's dimensions, topographical features, easements, a floor plan (indicating the number of bedrooms and basement, if applicable), driveways and outbuildings and lot dimensions, placement of the onsite system and the location of system replacement area (must accommodate 100% replacement of the original system).
- 3. Subdivision plans. The location of all exploration pits and percolation test holes shall be clearly identified on the subdivision final plat and identified by a key number or letter designation. The results of such soil test, including stratified depths of soils and final percolation rates for each lot shall be recorded on or with the final plat.

In the event of a dispute or disagreement regarding an action or decision made by the Weber-Morgan Health Department, the afficted party may request a departmental conference, in accordance with the "Weber-Morgan Health Department Adjudicative Hearing Procedures."

Attached is a copy of all well measurements and observations, and a request form for "Departmental Conference," for your convenience. Please contact this office or the undersigned at 801-399-7174 if you have questions or concerns.

Sincerely,

Summer Day, LEHS

Environmental Health Division

2010 WATER TABLE DATA
NAME;
Address;
Land serial

Service Company Age of the Company o

South wells

24-040-0028, 24-007-0007, +

	And and desirable self-second and Andrews (second control of the second control of the s	2818	276.02.4	3/2/14	202H4	A14144	400144	Shatish ben is makeli Master Matta paneal anno da ata San Sista Hills di Basica ata matta sa sa sa sa sa sa	wardered Allered States and Control of the Control
1			i n	: : (*		- - - : ((· V		
Service and the service and th	I	O (Prime in a constructive in treatment and present appropriet	vektovisedesilikoojestaaliksilaasin-avviktaasijakki	undented antocorono at a reference description (epinere e-autoritentent ere delenatitelen mandatat	ladatest verses timost amilitario de la julio percenta	**************************************	ngtinkel omlanterforderer i den engelegijkantlekklopport for ommet doct en dialoktionalenkoppeler.	andionostisenskild kildstilluseres sentenes en marten steenstismikkastistuskus kansta netapskund(totalitistuskus
The state of the s	with the second	pt.	26.5		100	4.5	Newtonop (Memor) process provides a result to bould de-	SiveryNoterissi tudeteriririredifoliqiQijQqqqdaSvebaddeqiQveppayetiqibiDtatatatatotdettirenostip	A TOTAL CONTRACTOR OF THE STATE
М	***************************************				Ø	60			
Š	٤				**				
స		4) (A)	999	38	e P	6.2	PRODUCES IN CONTRACTOR	and the state of t	e o de sector de la constitución
W		8	8	w 7	S) T	ю			
3	***********	R	**	00000		(2) (1)			THE R. P. P. S.
word of the state	-	00	0.00	80		ō	State Charles for the contract of the contract	ókkkeit (TTT) ferretőd, Gogsóf ékegyprorfelhásjárret szystolygiákgaskalajákjásásaka ja kékég szvegener	mandation in the control of the cont
38	manna	0000	4			Ci			
(f) (f)	******	38.9	Ņ	Ć, ro	io N				
ŠĄ	-	Q.	9	2, 2 2, 2	40		SS .	auri toojakkistaatokoostookoostookoostookoosikistaasi kalkalkoostootoostookoosikoostookoostookoostookoostookoo	
<u>_</u>	numan	C.	m	33	3	20.00	10 CV		15
벋	antonikishi.	37	in K	2	8		2		
Š	-					(C)		Oktoof Opening approvement (VO) of the propriety of the pure of the propriety of the propriety of the propriety of the pure of	
4. m	numan,				ć		Ø		
2	deistaane	Ç.							
%	*******		Ť.	- 2			444	decementerve noor promission of street representations of street and street and street and street and street a	
178	industrial policy of the control of		22	10		0			2
Š			0			(C)			
5			O	u€0 4,00	eo On	eo E	O	CASO DELL'ENVANTAMENTALISMENT DELL'ENVANTAMENT DELL'ENVAN	
202		5 S	Q	-	5		le e i		2
218			27.5						
2E		60 90	26.5	2				Parada.	
23M		10 10 10 10 10	200	C		4 B 2 B		2	<u>\$</u>
248		\$0 \$0 \$0	900	00 CV					
72E		C)	Sea Sea	(0)		O.		KODOVNEGOZODOJAN IZVORIROOMI JEGOTI GARJAGOZOJ POROLOGIJANIMA IZVORIJANIMA IZVORIJANIMA IZVORIJA DANIMA.	Tomos Common Com
2672	***********	R	4 65		(O)	40 E			2
278			71		9	Ĉ¥.			
28E		go roi	53	ß	46	ស្ថ	4 63 70		

109 109		₹00	200		200	200		at or a de	\$0 50 50 50 50 50 50 50 50 50 50 50 50 50	
	Z.	9	20.02 0.03	42	22	Ď	C	27	8	
Ş	4	4	36	37.5	S	46.5	တ် က	Z	80	20°
\$	4 3 0	43.5	40.5	တ္က	r,	49.5	22	(A)	40.5	38.5
4 €5	ro.	45.5	42.5	4	55 121	ස	200	\$	ç.	400
ß	52.5	ģ	57.00	B	G	99	ගු	ස	8	83
S	Š	88	B	ගු	G G	(C)	O	8	(Q)	œ
4 8	ζ,	ß	Si Si	50.5	67	65	S	දිර	ŝ	100
2	8	8	63	9	00	000	8	89	3	89
28%	8	2.4	32%	83		32%	8	12.5	388	00000