

## Hansen and Associates, Inc. Consulting Engineers & Land Surveyors

August 8, 2012

Dave Marble
Division of Dam Safety
Utah Division of Water Rights
1594 West North Temple Suite 220,
P.O. Box 146300, Salt Lake City, Utah 84114-6300

Re: Small Dam Application for Tim Charlwood, developer of the Sanctuary

Dear Mr. Marble:

Our client, Tim Charlwood is developing a 6 lot subdivision with lots having 40 acres minimum. The subdivision is located in Weber County east of the Townsite of Huntsville. In getting Weber County's approval, the engineering department stated that we needed to get the states dam safety approval for two small detention basins that are proposed at the lower end (west end) of the development. As stated in my email to you, I really do not think these detention basins constitute being a dam. They each have little or no dike being built. We are submitting these required documents just incase your approval is required.

Please find enclosed signed copies of the "Historic Property Effect Evaluation" application and the "Application for Dam Not Requiring Submission of Formal Plans" for your review. Also enclosed are the required associated documents and drawings.

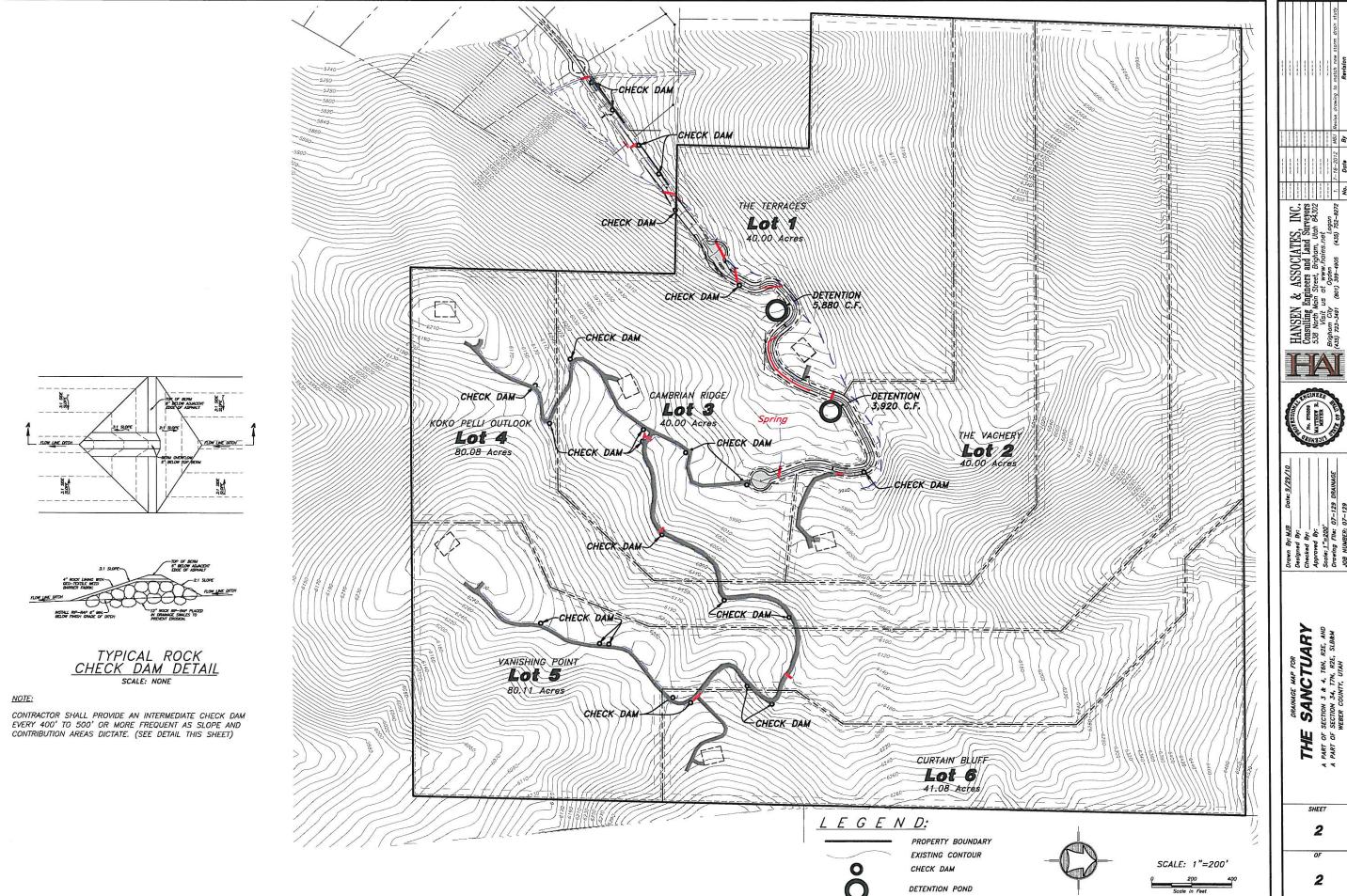
Let me know if you have any questions or need more information.

Respectfully;

Hansen and Associates, Inc.

K. Greg Hansen, Pres. P.L.S.

Job No. 07-129



35+00

38+00

39+00

41+00

42+00

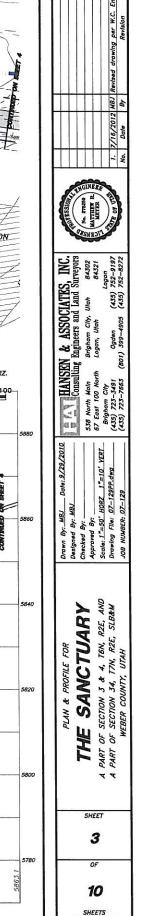
43+00

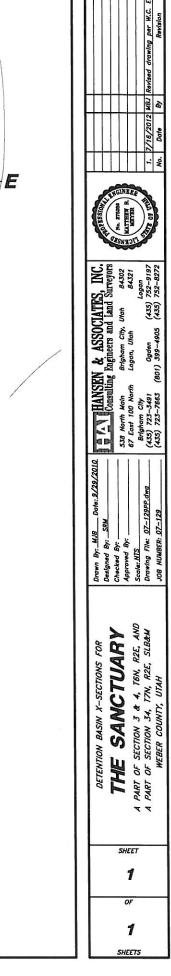
30+00

31+00

32+00

33+00





## HISTORIC PROPERTY EFFECT EVALUATION UTAH DIVISION OF WATER RIGHTS

In accordance with Sec. 9-8-404. Utah Code Annotated, before approving any undertaking the Division must take into account the effect of the undertaking on historic properties and provide the State Historic Preservation officer with a written evaluation.
Project Number (Water Right, Non-Production Well, or Dam Application Number):
Project Location: Section Township Range Base & Meridian
Project Description: If the accompanying application is approved, what physical effects will occur to the land surface (i.e. buildings, pipelines, roads, wells, etc.)?  2 detention basins are to be constructed with the associated piping, outlet structures and rip-rap spillways. The West pond will hold 5880 c.f. (0.135 a.f.) of water. The East pond will hold 3920 c.f. (0.09 a.f) of water. They both drain into an existing drainage channel on the opposite side of each of the existing road. (see attached drawing)
Describe any historic properties that you are aware could be effected by the proposed project.  To the best of my knowledge there are not any historic properties that will be effected by the construction of these detention basins.
Describe any historic property survey you are aware has been conducted at or near the site where the proposed project is to occur.  None that I am aware of.
Is there a federal or state connection to this project that has/will require a historic property evaluation? Y/N
It is the opinion of the Division the above-described undertaking may / will not affect historic property. For additional information on the proposed undertaking please visit the Division's website at http://waterrights.utah.gov or call 801-538-7240.
Turkood 08,08,2012
Utah Division of Water Rights - 1594 West North Temple, Suite 220 - PO Box 146300 - Salt Lake City, Utah 84114-6300

Form R-69

01/2000

## APPLICATION FOR A DAM NOT REQUIRING SUBMISSION OF FORMAL PLANS UNDER SECTION 73-5A-502 STATE OF UTAH

	Received / /	Entered /	1	Application No
	The following appl	ication is submitted	l pursuant to	o Section 73-5a-204
1.	APPLICANT INFORMATION Name(s): Tim Charwood Address: P.O. Box 98040	0	Telephone:	435-901-2337
	City: Park City		State: UT	Zip Code: 84098
2.	PURPOSE OF RESERVOIR Stock Pond Irrigation Regulating Reservoir Diversion Dam Other (describe)	Flood Control		RecreationFishery
,3.	LEGAL LOCATION OF DAN CountyWeber Township 6N		SW	
4A.	FOR DAMS BUILT ON A NA	TURAL STREAM	OR DRAIN	IAGE
OR	Name of Natural Stream	n or Drainage		(square miles) mans(miles)
4B.	FOR DAMS BUILT OFF- CH Source of Water (ie: well, canal,	ANNEL ditch, etc.) Surf	ace drino	
5.	DIMENSIONS OF DAM Height (vertical) 4 feet Upstream Slope 100 Horiz Downstream Slope 140 Horiz Surface Area at Spillway Crest Type of Dam (ie: earthfill, concr	zontal on 20 V zontal on 20 V	/ertical Vertical Capacity at	
6.	Location of gate or valve (ie: up	stream, downstream	Type of gat (, center,etc.)	t length 85 (feet) te or valve none none y 33 (cubic feet per second)
7.	Type of Spillway (ie: earth chan	nel, pipe, concrete, top of dam	rock channel, 35	(cubic feet per second)

	E 4906 (35-12224), E 4907 (35-12225), E 4908 (35-12226), E 4909 (35-1228) & E 4910 (35-12228) COMMENTS
	COMMENTS
	PLANS The following drawings, including appropriate scales and dimensions, must be attached to the application:
	<ol> <li>A location map, such as a 7.5 minute USGS Quad Map, showing the exact location of the dam</li> <li>A plan view of the dam and reservoir including the location of the spillway, outlet, and channel or supply source.</li> </ol>
	3) A profile of the dam along the centerline of the dam showing the natural ground, the top of the dam, and the depth to clearing, keyway bottom or cutoff trench.  4) A Cross Section of the dam through the outlet showing the location of the outlet and the types of
	materials the dam is to be constructed of.  Details of the spillway, outlet, drains, gates or valves, or other features of the dam or appurtenant
	structures.
e i	indersigned acknowledge they have read the instructions included with this application, and are aware instruction is to begin until this application has been approved by the Utah State Engineer. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
e	ndersigned acknowledge they have read the instructions included with this application, and are aware instruction is to begin until this application has been approved by the Utah State Engineer.    08/08/20/2   Signature
e	nstruction is to begin until this application has been approved by the Utah State Engineer.  O 8 / 0 8 / 20 / 2  Date  - For Office Use Only -
ec	nstruction is to begin until this application has been approved by the Utah State Engineer.  O 8   0 8   20 12
ate ate	r Rights in Order By Date  - For Office Use Only - Right Numbers if Applicable onal Engineer's Hazard Rating (High, Moderate, Low)
et ente	r Rights in Order By Date
ate ate gi	nstruction is to begin until this application has been approved by the Utah State Engineer.  O 8   0 8   20 12
econtente de la contente de la conte	restruction is to begin until this application has been approved by the Utah State Engineer.    OS   OS   2012
ate ate gi vi	restruction is to begin until this application has been approved by the Utah State Engineer.    OS   OS   2012
ate ate gi	restruction is to begin until this application has been approved by the Utah State Engineer.    OS   OS   2012
ate ate	restruction is to begin until this application has been approved by the Utah State Engineer.    OS   OS   2012

Form R-69

01/2000

## APPLICATION FOR A DAM NOT REQUIRING SUBMISSION OF FORMAL PLANS UNDER SECTION 73-5A-502 STATE OF UTAH

	Received / /	Entered /	1	Application No
	The following app	lication is submitte	d pursuant to	Section 73-5a-204
1.	APPLICANT INFORMATION Name(s): Tim Charwood Address: P.O. Box 9804	00	Telephone:	435-901-2337
	City: Park City		State: IIT	Zip Code: 84098
2.	PURPOSE OF RESERVOIR Stock Pond Irrigation Regulating Reservoir Diversion Dam Other (describe)	Flood Control_ Debris Basin_ Sedimentation_ Evaporation_		Recreation
3.	LEGAL LOCATION OF DAN County Weber Township 6N	A Quarter/Quarter Range 2E	NW	
4A.	FOR DAMS BUILT ON A NA Name of Natural Stream	TURAL STREAM	OR DRAIN	AGE
OR	Drainage Area above d Distance below dam to	amnearest structure oc	cupied by hun	(square miles) nans(miles)
4B.	FOR DAMS BUILT OFF- CH Source of Water (ie: well, canal, Capacity of source to re Distance below dam to	ditch, etc.) Sur	35	ff from roadways  (cubic feet per second)  nans current 0.5 (miles)  future 0.25
5.	Downstream Slope 12 Horiz  Downstream Slope 20 Horiz  Surface Area at Spillway Crest	zontal on 100 V zontal on 250 V	Vertical Vertical Capacity at !	t Width (at top) 6 feet  Spillway Crest 0.09 (acre-feet)
6.	LOW LEVEL OUTLET Inside diameter of outlet Type of Pipe RO Location of gate or valve (ie: up	(inches)  EP  stream, downstream	Total outlet Type of gate , center.etc.)	length 24' (feet) or valve_none none 33 (cubic feet per second)
7.	Type of Spiriway (ie: earth chan	nel, pipe, concrete, r	ock channel.	(oubio Foot manuscus)

&	E 4910 (35-12228)	igned to each of the 6 lots E 4905 (35- =12225), E 4908 (35-12226), E 4909 (35-
CČ	E 4910 (35-12228) DMMENTS	
-		
PL	ANS	
The	e following drawings, including appropriate	scales and dimensions, must be attached to the application:
1)		
2)	A plan view of the dam and reservoir i supply source.	USGS Quad Map, showing the exact location of the dam including the location of the spillway, outlet, and channel or
3)	A profile of the dam along the centerli	ne of the dam showing the natural ground, the top of the
dar	m and the depth to cleaning, keyway homom	OF CHIOTI french
4)	A Cross Section of the dam through the	e outlet showing the location of the outlet and the types of
	terrain the dam is to be constitued to	
5)	Details of the spillway, outlet, drains, g	gates or valves, or other features of the dam or appurtenant
STEL	actures.	The state of the s
	/ com to to begin until this application has b	tructions included with this application, and are aware seen approved by the Utah State Engineer.
	0.8/0.8/2012	deen approved by the Utah State Engineer.
C	$\frac{28 \left( 0.8 \right) \left( 20/2 \right)}{16}$	Signature
Dat	$\frac{28 \left( \frac{3}{20} \right) 2}{100}$ The sin Order By	Signature  ce Use Only -
Dat Right	s in Order By	Signature  ce Use Only -  Date
Dat Right Right	- For Offi s in Order By Numbers if Applicable rgineer's Hazard Rating (High Moderate Lo	Signature  Ce Use Only -  Date
Dat Right Right al En	- For Offi s in Order By Numbers if Applicable gineer's Hazard Rating (High, Moderate, Lo	Signature  Cee Use Only -  Date
Dat Right Right al En	- For Offi s in Order By Numbers if Applicable gineer's Hazard Rating (High, Moderate, Lo y Dam Safety By reach Flow at Dam	Signature  Cee Use Only -  Date  Date  Date
Dat Right Right al En ed by	- For Offi s in Order By Numbers if Applicable gineer's Hazard Rating (High, Moderate, Lo y Dam Safety By reach Flow at Dam	Signature  Cee Use Only -  Date  Date  Date
Dat Right Right al En red by	- For Offi s in Order By Numbers if Applicable gineer's Hazard Rating (High, Moderate, Lo	Signature  Cee Use Only -  Date  Date  Date
Dat Right Right al En red by	- For Offi s in Order By Numbers if Applicable gineer's Hazard Rating (High, Moderate, Lo y Dam Safety By reach Flow at Dam	Signature  Cee Use Only -  Date  Date  Date
Dat Right Right al En /ed by	- For Offi s in Order By Numbers if Applicable gineer's Hazard Rating (High, Moderate, Lo y Dam Safety By reach Flow at Dam	Signature  Cee Use Only -  Date  Date  Date
Dat Right Right al En /ed by	- For Offi s in Order By Numbers if Applicable gineer's Hazard Rating (High, Moderate, Lo y Dam Safety By reach Flow at Dam	Signature  Cee Use Only -  Date  Date  Date
Dat Right Right al En	- For Offi s in Order By Numbers if Applicable gineer's Hazard Rating (High, Moderate, Lo y Dam Safety By reach Flow at Dam	Signature  Cee Use Only -  Date  Date  Date
Dat Right Right nal En ved by	- For Offi s in Order By Numbers if Applicable gineer's Hazard Rating (High, Moderate, Lo y Dam Safety By reach Flow at Dam	Signature  Cee Use Only -  Date  Date  Date
Data Right Right al En ved by ted B	- For Offi s in Order By Numbers if Applicable gineer's Hazard Rating (High, Moderate, Lo y Dam Safety By reach Flow at Dam	Signature  Cee Use Only -  Date  Date  Date

