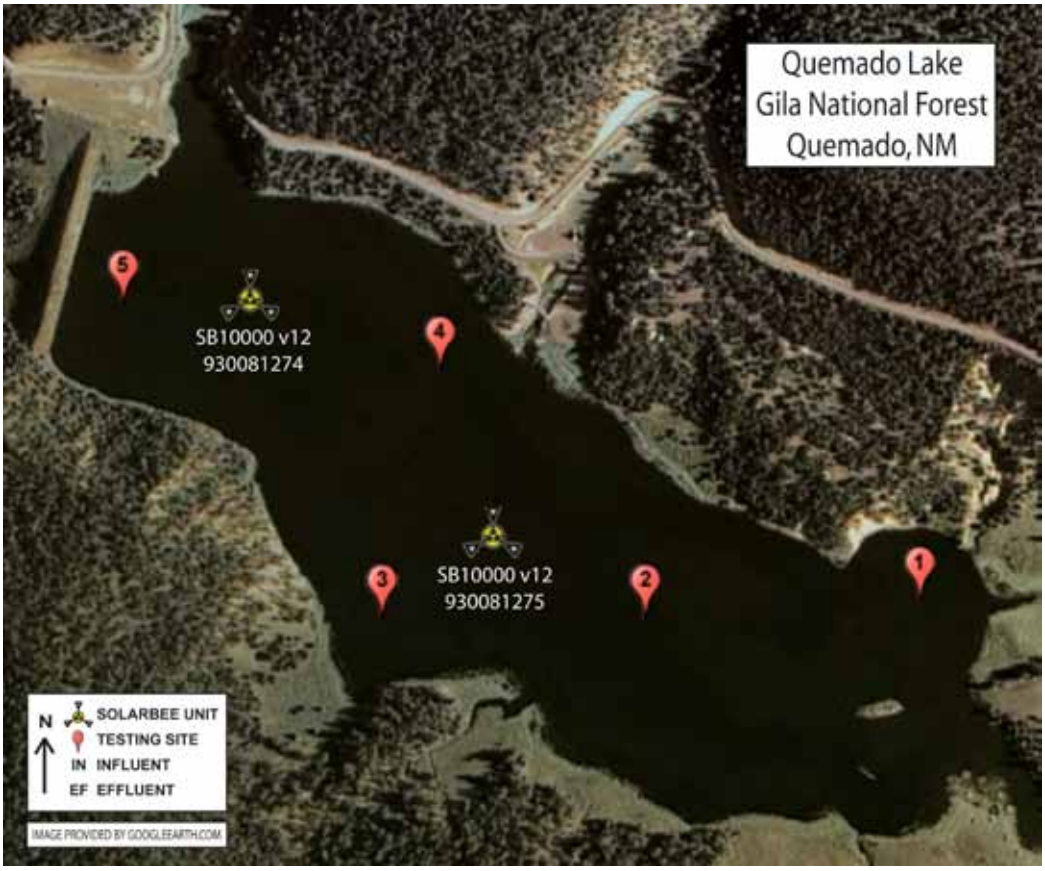
LOCATION: Quemado Lake- Quemado, NM

Most Current Reservoir System Summary & Map

OBJECTIVE: To provide long-distance circulation to control harmful blue-green algae blooms, improve dissolved oxygen levels, and improve fish habitats.



INITIAL PROJECT SUMMARY, SEE OTHER TABS FOR CURRENT PROJECT DATA	
FRESH WATER RESERVOIR	Quemado Lake
DEEPEST DEPTH (ft)	20.00
AVERAGE DEPTH (ft)	10.00
SURFACE AREA (acres)	111.9
ELEVATION (ft)	7272
ATMOSPHERIC PRESSURE (mmHg)	578.2
VOLUME (million gallons)	365
# of SB	2
CURRENT TYPE of SB	SB10000 v12
INSTALL DATE	08/24/09

SolarBee Water Quality Testing is intended to provide general indications of water quality and slurry / sludge / sediment profiles at the time of testing. In most cases, there are not enough test points for statistical significance. Please call for help with interpreting this data. This information should not be considered a substitute for larger, more comprehensive system studies that SolarBee, Inc. and other companies can provide at additional cost.

GPS locations are recorded for all test stations and unit positions. Depending on conditions, there can be a

LOCATION: Quemado Lake- Quemado, NM
Installation, Service, & Testing Summary

DATE	SERVICE & TESTING SUMMARY
04-17-10	SERVICE: (2) SB10000 v12 (930081274, 930081275) CREW: Steve Shanabarger / Jerry Pachl Crew on location to check on location. Moved units back to original GPS and performed general maintenance. Water quality testing was performed at newly designated sites. Secchi ranged from 3.75 - 4.50 ft. DO ranged from 4.54 - 8.00 mg/L, pH ranged from 7.19 - 7.83
08-24-09	INSTALLATION: (2) SB10000 v12 (930081274, 930081275) CREW: Wyatt Dinius / Jeremy DeShaw Crew on location to install units. Crew noted that install went well. Water quality testing was performed at newly designated sites. Secchi ranged from 2.17 - 6.58 ft. DO ranged from 0.06 - 8.75 mg/L, pH ranged from 7.43 - 8.37

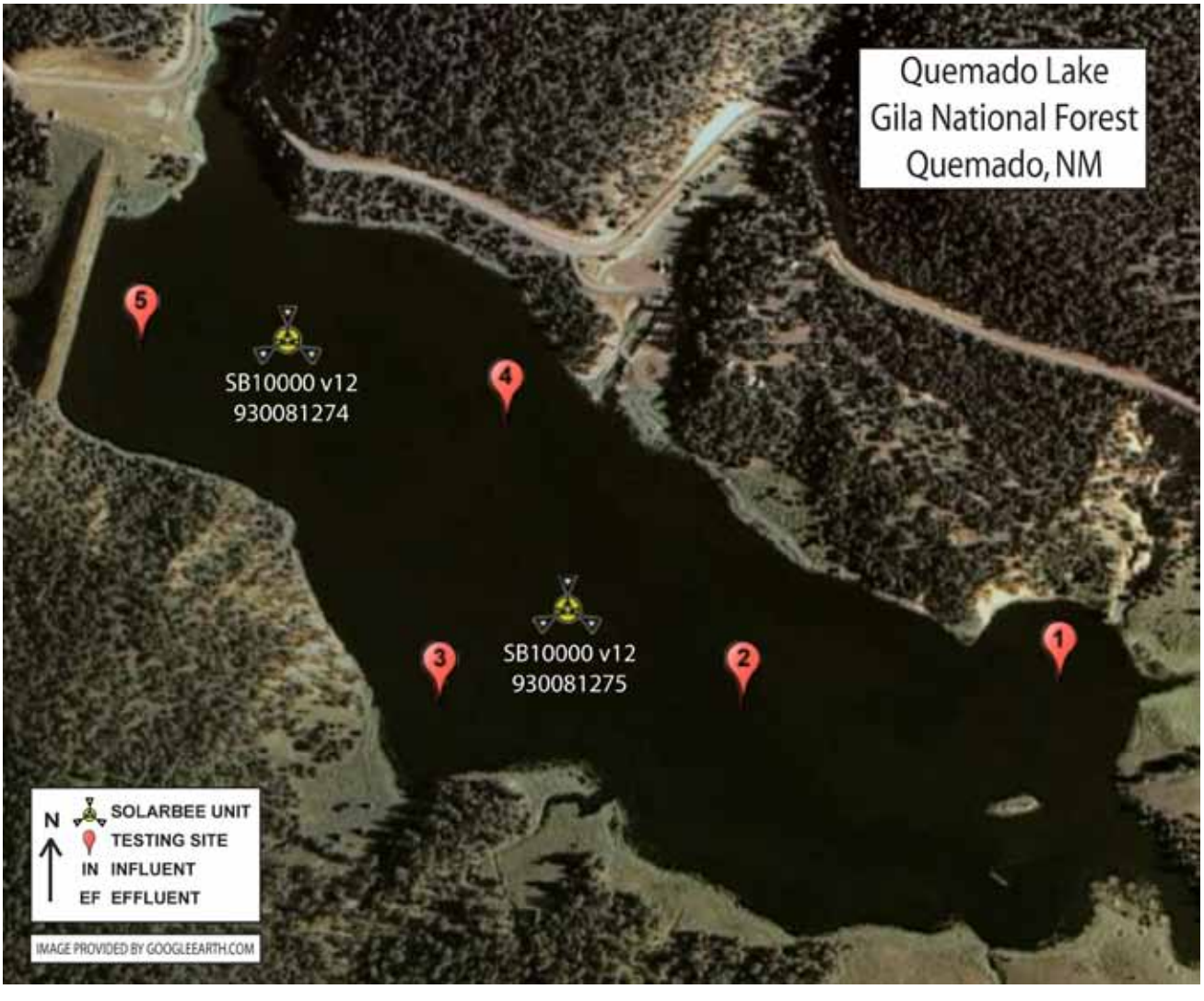
LOCATION: Quemado Lake- Quemado, NM
Installation, Service, & Testing Summary

DATE	SERVICE & TESTING SUMMARY

LOCATION: Quemado Lake- Quemado, NM

Historical Maps of Reservoir System and SolarBee Unit Layout

Date: 08/24/09



Equipment Specifications & Unit

LOCATION: Quemado Lake- Quemado, NM

Unit Serial #:	930081274	930081275
SB MACHINE:		
GENERAL LOCATION:	Northwest Unit	South East Unit
UNIT NAME:		
MODEL #:	SB10000 v12	SB10000 v12
INSTALLATION DATE:	08/24/09	08/24/09
PV MODULES:		
TYPE:	3@80	3@80
TILT ANGLE:	3@45	3@45
LOCATION:	On Unit	On Unit
ELECTRONIC CONTROLLER:		
TYPE:	A-Series	A-Series
MODBUS ID:	3	4
BRAINBOARD ID:	02445	2446
RUNTIME PROGRAMMING:	FW2v03-R1	FW2v03-R1
MOTOR:		
TYPE:	14" Brushless	14" Brushless
SERIAL #:	G2413C0002	G2413C0008
FLUID INTAKE ASSEMBLY:		
TYPE:	HP-36"	HP-36"
SPECIAL FEATURES:		
TOTAL HOSE LENGTH (ft):	10	10
HOSE SECTIONS (#/Type):	1@10	1@10
INTAKE HOSE ADJUSTMENT:	3 Chain System	3 Chain System
FLOAT ARM ASSEMBLY:		
TURNBUCKLE:	1"	1"
FLOATS:	Ace Standard	Ace Standard
FLOAT CABLES:	Yes	Yes
ANCHORING:		
TYPE:	Mooring Blocks	Mooring Blocks
if moored, number of anchors used:	2	2
if moored, length of anchor chain (ft):	120	120
ACCESSORIES:		
MARKER KIT:	Yes	Yes
BEACON:	Yes	Yes
BIRD DETERRENT:	Spikes	Spikes
LEGS:	None	None
OTHER:		
Unit Work Summary:	04-17-10: Moved unit back to original GPS and performed general maintenance. 08-24-09: Installed unit.	04-17-10: Moved unit back to original GPS and performed general maintenance. 08-24-09: Installed unit.

Equipment Specifications & Unit

LOCATION: Quemado Lake- Quemado, NM

Unit Serial #:	930081274	930081275
SB MACHINE:		
GENERAL LOCATION:	Northwest Unit	South East Unit
UNIT NAME:		
MODEL #:	SB10000 v12	SB10000 v12

LOCATION: Quemado Lake- Quemado, NM

Location / Unit Data

DATE:	08/24/09	04/17/10	
CONTACT:			
FIRST CONTACT PERSON:	Jerry Monzingo	Jerry Monzingo	
PHONE:	575-388-8221	575-388-8221	
CELL:	575-313-2741	575-313-2741	
SECOND CONTACT PERSON:			
PHONE:			
CELL:			
CLIMATE / WEATHER:			
TYPE:	Trop/SubtropSteppe	Trop/SubtropSteppe	
CONDITIONS:	Sunny	Cloudy	
WIND SPEED(mph):	10-15	5-15	
AIR TEMPERATURE(Deg F):	68	60	
SOLAR IRRADIATION:	868	735	
TIME:	13:00	1:30	
RESERVOIR OBSERVATIONS:			
FLOATING DEBRIS:	None	Weeds	
TYPE OF AQUATIC LIFE:	Fish	Fish	
		Birds	
ALGAE, % COVERAGE	30%	0%	
DUCKWEED, % COVERAGE	0%	0%	
CHEMICALLY TREATED:	No	No	
ODOR(0 to 10):	0	2	
SURFACE TENSION:	9	8	
OWNER MAINTENANCE EFFORT(0 to 10):	NA	7	
WATER COLOR:	Green	Clear Green / Brown	
AERATION EQUIPMENT:			
TYPE:	None	None	
TOTAL HP:			
SB MACHINE:			
GENERAL LOCATION:	Northwest Unit	Northwest Unit	
UNIT NAME:			
MODEL #:	SB10000 v12	SB10000 v12	
SERIAL #:	930081274	930081274	
RUNTIME PROGRAMMING:	FW2v03	FW2v03	
SCHEDULED REVERSE:	R1	R1	
GPS LOCATION:	34.13715	34.13715	
	-108.49492	-108.49492	
MACHINE MONITORING DATA:			
BATTERY VOLTAGE (PV's UNPLUGGED):	13.3	12.9	
BATTERY VOLTAGE (PV's PLUGGED IN):	13.4	14.6	
MOTOR CURRENT (PV's UNPLUGGED):	2.02	3.70	
OBSERVED RPM:	81	80	
UNIT STATUS AT ARRIVAL:	Install	Healthy System	
UNIT STATUS AT DEPARTURE:	Healthy System	Healthy System	
WAS NEW FIRMWARE UPLOADED?:	NA	No	
TRIBUTION DISH ADJUSTMENT ARRIVAL(in.):	Install	2.50	
TRIBUTION DISH ADJUSTMENT LEAVING(in.):	2.00	2.50	
FLUID INTAKE PLUGGING(%):	Install	0%	
TOP OF WEIGHT BEARING SEDIMENT(ft.):	20.33	27.58	
FLUID INTAKE DEPTH ARRIVAL(ft.):	Install	9.00	
FLUID INTAKE DEPTH DEPARTURE(ft.):	9.00	9.00	
IMPELLER PLUGGING(%):	Install	0%	
OTHER OBSERVATIONS:			
SECCHI DEPTH(ft.):	6.42	4.50	
OTHER:			

LOCATION: Quemado Lake- Quemado, NM

Location / Unit Data

DATE:	08/24/09	04/17/10	
SB MACHINE:			
GENERAL LOCATION:	Southeast Unit	Southeast Unit	
UNIT NAME:			
MODEL #:	SB10000 v12	SB10000 v12	
SERIAL #:	930081275	930081275	
RUNTIME PROGRAMMING:	FW2v03	FW2v03	
SCHEDULED REVERSE:	R1	R1	
GPS LOCATION:	34.13459	34.13459	
	-108.49171	-108.49171	
MACHINE MONITORING DATA:			
BATTERY VOLTAGE (PV's UNPLUGGED):	13.7	12.7	
BATTERY VOLTAGE (PV's PLUGGED IN):	14.2	14.8	
MOTOR CURRENT (PV's UNPLUGGED):	1.88	3.10	
OBSERVED RPM:	81	80	
UNIT STATUS AT ARRIVAL:	Install	Healthy System	
UNIT STATUS AT DEPARTURE:	Healthy System	Healthy System	
WAS NEW FIRMWARE UPLOADED?:	NA	No	
TRIBUTION DISH ADJUSTMENT ARRIVAL(in.):	Install	2.50	
TRIBUTION DISH ADJUSTMENT LEAVING(in.):	2.00	2.50	
FLUID INTAKE PLUGGING(%):	Install	0%	
TOP OF WEIGHT BEARING SEDIMENT(ft.):	16.00	25.00	
FLUID INTAKE DEPTH ARRIVAL(ft.):	Install	8.50	
FLUID INTAKE DEPTH DEPARTURE(ft.):	8.50	8.50	
IMPELLER PLUGGING(%):	Install	0%	
OTHER OBSERVATIONS:			
SECCHI DEPTH(ft.):	6.33	4.00	
OTHER:			
SERVICE CREW:			
TEAM NAMES:	Wyatt Dinius	Steve Shanabarger	
	Jeremy DeShaw	Jerry Pachl	
TIME ON LOCATION:			
DATE:	08/24/09	04/17/10	
TIME IN / TIME OUT:	8:38 / 19:00	11:00 / 3:30	
DATE:	08/25/09		
TIME IN / TIME OUT:	9:18 / 12:53		
TOTAL HOURS ON LOCATION:	14.25	4.50	

LOCATION: Quemado Lake- Quemado, NM

Testing Data

DATE:	08/24/09	04/17/10	
CLIMATE / WEATHER:			
TYPE:	Trop/SubtropSteppe	Trop/SubtropSteppe	
CONDITIONS:	Sunny	Coudy	
WIND SPEED(mph):	10-15	5-15	
AIR TEMPERATURE(Deg F):	68	60	
TESTING CREW:			
TEAM NAMES:	Wyatt Dinius	Steve Shanabarger	
	Jeremy DeShaw	Jerry Pachl	
TEST POINT #1			
GPS LOCATION:	34.13383	34.13383	
	-108.48607	-108.48607	
START TIME:	9:59	2:15	
FINISH TIME:	10:01	2:20	
TEST POINT #1			
SECCHI DEPTH(ft.):	2.17	3.75	
TOP OF SLURRY(ft.):	NA	None	
TOP OF WEIGHT BEARING SEDIMENT(ft.):	2.17	8.34	
BOTTOM OF RESERVOIR(ft.):	NA	8.34	
WATER COLOR:	Green	Brown / Green	
SLURRY COLOR:	NA	None	
SEDIMENT COLOR:	NA	Brown	
FREE WATER THICKNESS (ft.):	NA	NA	
SLURRY THICKNESS (ft.):	NA	NA	
SEDIMENT THICKNESS (ft.):	NA	0.00	
TOTAL RESERVOIR DEPTH (ft.):	NA	8.34	
TEST POINT #1			
TEMPERATURE (degrees C):			
DEPTH (ft): 0	17.75	13.90	
(0.30 m) 1	17.65	13.70	
(0.61 m) 2		13.40	
(0.91 m) 3		12.12	
(1.22 m) 4		11.40	
(1.52 m) 5		10.92	
(1.83 m) 6		10.50	
(2.13 m) 7		9.85	
(2.44 m) 8		9.15	
(2.74 m) 9			
TEST POINT #1			
SPECIFIC CONDUCTANCE (mS/cm)			
DEPTH (ft): 0	0.440	0.193	
(0.30 m) 1	0.441	0.193	
(0.61 m) 2		0.193	
(0.91 m) 3		0.192	
(1.22 m) 4		0.192	
(1.52 m) 5		0.193	
(1.83 m) 6		0.191	
(2.13 m) 7		0.192	
(2.44 m) 8		0.156	
(2.74 m) 9			
TEST POINT #1			
DISSOLVED OXYGEN (mg/l)			
DEPTH (ft): 0	5.33	7.72	
(0.30 m) 1	5.22	7.74	
(0.61 m) 2		7.76	
(0.91 m) 3		7.85	
(1.22 m) 4		7.78	
(1.52 m) 5		7.79	
(1.83 m) 6		7.74	
(2.13 m) 7		7.47	
(2.44 m) 8		7.65	
(2.74 m) 9			
TEST POINT #1			
pH			
DEPTH (ft): 0	7.98	7.70	
(0.30 m) 1	8.00	7.72	
(0.61 m) 2		7.71	

LOCATION: Quemado Lake- Quemado, NM

Testing Data

DATE:		08/24/09	04/17/10	
(0.91 m)	3		7.69	
(1.22 m)	4		7.65	
(1.52 m)	5		7.62	
(1.83 m)	6		7.60	
(2.13 m)	7		7.51	
(2.44 m)	8		7.44	
(2.74 m)	9			
TEST POINT #2				
GPS LOCATION:		34.13364	34.13364	
		-108.48970	-108.48970	
START TIME:		10:03	2:25	
FINISH TIME:		10:12	2:30	
TEST POINT #2				
SECCHI DEPTH(ft.):		4.17	3.75	
TOP OF SLURRY (ft.):		NA	None	
TOP OF SEDIMENT(ft.):		4.17	11.41	
BOTTOM OF RESERVOIR(ft.):		NA	11.41	
WATER COLOR:		Green	Brown / Green	
SLURRY COLOR:		NA	None	
SEDIMENT COLOR:		NA	Brown	
FREE WATER THICKNESS (ft.):		NA	NA	
SLURRY THICKNESS (ft.):		NA	NA	
SEDIMENT THICKNESS (ft.):		NA	0.00	
TOTAL RESERVOIR DEPTH (ft.):		NA	11.41	
TEST POINT #2				
TEMPERATURE (degrees C):				
DEPTH (ft):	0	18.77	13.55	
(0.30 m)	1	18.71	13.76	
(0.61 m)	2	18.50	12.25	
(0.91 m)	3	18.23	10.81	
(1.22 m)	4		10.69	
(1.52 m)	5		10.55	
(1.83 m)	6		10.44	
(2.13 m)	7		10.23	
(2.44 m)	8		9.96	
(2.74 m)	9		9.74	
(3.05 m)	10		9.63	
(3.35 m)	11			
TEST POINT #2				
SPECIFIC CONDUCTANCE (mS/cm)				
DEPTH (ft):	0	0.440	0.193	
(0.30 m)	1	0.440	0.193	
(0.61 m)	2	0.440	0.194	
(0.91 m)	3	0.440	1.930	
(1.22 m)	4		0.193	
(1.52 m)	5		0.192	
(1.83 m)	6		0.192	
(2.13 m)	7		0.191	
(2.44 m)	8		0.191	
(2.74 m)	9		0.192	
(3.05 m)	10		0.193	
(3.35 m)	11			
TEST POINT #2				
DISSOLVED OXYGEN (mg/l)				
DEPTH (ft):	0	7.25	7.73	
(0.30 m)	1	7.25	7.70	
(0.61 m)	2	7.17	7.90	
(0.91 m)	3	6.93	7.99	
(1.22 m)	4		7.86	
(1.52 m)	5		7.87	
(1.83 m)	6		7.86	
(2.13 m)	7		7.79	
(2.44 m)	8		7.60	
(2.74 m)	9		7.44	
(3.05 m)	10		7.10	
(3.35 m)	11			
TEST POINT #2				
pH				
DEPTH (ft):	0	*8.22*	*7.76*	

LOCATION: Quemado Lake- Quemado, NM

Testing Data

DATE:		08/24/09	04/17/10	
(0.30 m)	1	8.22	7.75	
(0.61 m)	2	8.22	7.75	
(0.91 m)	3	8.21	7.72	
(1.22 m)	4		7.70	
(1.52 m)	5		7.68	
(1.83 m)	6		7.67	
(2.13 m)	7		7.64	
(2.44 m)	8		7.60	
(2.74 m)	9		7.55	
(3.05 m)	10		7.50	
(3.35 m)	11			
TEST POINT #3				
GPS LOCATION:		34.13364	34.13364	
		-108.49318	-108.49318	
START TIME:		10:15	2:36	
FINISH TIME:		10:28	2:48	
TEST POINT #3				
SECCHI DEPTH(ft.):		6.58	3.75	
TOP OF SLURRY (ft.):		NA	NA	
TOP OF SEDIMENT(ft.):		10.33	19.34	
BOTTOM OF RESERVOIR(ft.):		NA	19.34	
WATER COLOR:		Green	Green / Brown	
SLURRY COLOR:		NA	NA	
SEDIMENT COLOR:		NA	NA	
FREE WATER THICKNESS (ft.):		NA	NA	
SLURRY THICKNESS (ft.):		NA	NA	
SEDIMENT THICKNESS (ft.):		NA	0.00	
TOTAL RESERVOIR DEPTH (ft.):		NA	19.34	
TEST POINT #3				
TEMPERATURE (degrees C):				
DEPTH (ft):	0	18.80	13.95	
(0.30 m)	1	18.61	13.82	
(0.61 m)	2	18.69	13.62	
(0.91 m)	3	18.38	12.42	
(1.22 m)	4	18.31	11.51	
(1.52 m)	5	18.28	11.16	
(1.83 m)	6	18.22	11.13	
(2.13 m)	7	18.20	11.00	
(2.44 m)	8	18.11	10.81	
(2.74 m)	9	18.08	10.20	
(3.05 m)	10		9.37	
(3.35 m)	11		9.35	
(3.66 m)	12		8.91	
(3.96 m)	13		8.40	
(4.27 m)	14		7.81	
(4.57 m)	15		6.87	
(4.88 m)	16		6.80	
(5.18 m)	17		6.41	
(5.49 m)	18			
(5.79 m)	19			
TEST POINT #3				
SPECIFIC CONDUCTANCE (mS/cm)				
DEPTH (ft):	0	0.440	0.193	
(0.30 m)	1	0.441	0.193	
(0.61 m)	2	0.441	0.193	
(0.91 m)	3	0.440	0.193	
(1.22 m)	4	0.439	0.193	
(1.52 m)	5	0.439	0.193	
(1.83 m)	6	0.440	0.193	
(2.13 m)	7	0.441	0.193	
(2.44 m)	8	0.443	0.193	
(2.74 m)	9	0.445	0.193	
(3.05 m)	10		0.194	
(3.35 m)	11		0.193	
(3.66 m)	12		0.196	
(3.96 m)	13		0.199	
(4.27 m)	14		0.217	
(4.57 m)	15		0.251	
(4.88 m)	16		0.259	

LOCATION: Quemado Lake- Quemado, NM

Testing Data

DATE:		08/24/09	04/17/10	
(5.18 m)	17		0.272	
(5.49 m)	18			
(5.79 m)	19			
TEST POINT #3				
DISSOLVED OXYGEN (mg/l)				
DEPTH (ft):	0	7.31	7.61	
(0.30 m)	1	7.22	7.64	
(0.61 m)	2	7.24	7.69	
(0.91 m)	3	7.33	7.81	
(1.22 m)	4	7.63	7.89	
(1.52 m)	5	7.60	7.84	
(1.83 m)	6	7.09	7.82	
(2.13 m)	7	6.14	7.80	
(2.44 m)	8	5.30	7.77	
(2.74 m)	9	4.12	7.75	
(3.05 m)	10		7.34	
(3.35 m)	11		7.11	
(3.66 m)	12		6.99	
(3.96 m)	13		6.55	
(4.27 m)	14		5.90	
(4.57 m)	15		5.27	
(4.88 m)	16		4.73	
(5.18 m)	17		4.54	
(5.49 m)	18			
(5.79 m)	19			
TEST POINT #3				
pH				
DEPTH (ft):	0	8.25	7.82	
(0.30 m)	1	8.24	7.83	
(0.61 m)	2	8.25	7.81	
(0.91 m)	3	8.25	7.81	
(1.22 m)	4	8.27	7.79	
(1.52 m)	5	8.27	7.76	
(1.83 m)	6	8.24	7.74	
(2.13 m)	7	8.19	7.72	
(2.44 m)	8	8.16	7.72	
(2.74 m)	9	8.05	7.70	
(3.05 m)	10		7.63	
(3.35 m)	11		7.59	
(3.66 m)	12		7.56	
(3.96 m)	13		7.57	
(4.27 m)	14		7.45	
(4.57 m)	15		7.42	
(4.88 m)	16		7.38	
(5.18 m)	17		7.36	
(5.49 m)	18			
(5.79 m)	19			
TEST POINT #4				
GPS LOCATION:		34.13632	34.13632	
		-108.49241	-108.49241	
START TIME:		10:31	1:32	
FINISH TIME:		9:46	1:42	
TEST POINT #4				
SECCHI DEPTH(ft.):		6.42	3.75	
TOP OF SLURRY (ft.):		NA	NA	
TOP OF SEDIMENT(ft.):		10.50	17.50	
BOTTOM OF RESERVOIR(ft.):		NA	17.50	
WATER COLOR:		Green	Clear Green / Brown	
SLURRY COLOR:		NA	NA	
SEDIMENT COLOR:		NA	NA	
FREE WATER THICKNESS (ft.):		NA	NA	
SLURRY THICKNESS (ft.):		NA	NA	
SEDIMENT THICKNESS (ft.):		NA	0.00	
TOTAL RESERVOIR DEPTH (ft.):		NA	17.50	
TEST POINT #4				
TEMPERATURE (degrees C):				
DEPTH (ft):	0	18.74	13.77	
(0.30 m)	1	18.74	13.53	
(0.61 m)	2	18.69	12.73	

LOCATION: Quemado Lake- Quemado, NM

Testing Data

DATE:		08/24/09	04/17/10	
(0.91 m)	3	18.71	11.85	
(1.22 m)	4	18.65	11.15	
(1.52 m)	5	18.61	10.77	
(1.83 m)	6	18.33	10.45	
(2.13 m)	7	18.29	10.43	
(2.44 m)	8	18.30	10.33	
(2.74 m)	9	18.24	10.20	
(3.05 m)	10		9.81	
(3.35 m)	11		9.52	
(3.66 m)	12		8.98	
(3.96 m)	13		8.57	
(4.27 m)	14		8.40	
(4.57 m)	15		8.33	
(4.88 m)	16		7.82	
(5.18 m)	17		7.84	
(5.49 m)	18			
(5.79 m)	19			
TEST POINT #4				
SPECIFIC CONDUCTANCE (mS/cm)				
DEPTH (ft):	0	0.439	0.193	
(0.30 m)	1	0.439	0.193	
(0.61 m)	2	0.440	0.193	
(0.91 m)	3	0.439	0.193	
(1.22 m)	4	0.439	0.193	
(1.52 m)	5	0.439	0.192	
(1.83 m)	6	0.439	0.192	
(2.13 m)	7	0.438	0.193	
(2.44 m)	8	0.438	0.193	
(2.74 m)	9	0.437	0.192	
(3.05 m)	10		0.192	
(3.35 m)	11		0.193	
(3.66 m)	12		0.193	
(3.96 m)	13		0.194	
(4.27 m)	14		0.196	
(4.57 m)	15		0.199	
(4.88 m)	16		0.200	
(5.18 m)	17		0.217	
(5.49 m)	18			
(5.79 m)	19			
TEST POINT #4				
DISSOLVED OXYGEN (mg/l)				
DEPTH (ft):	0	7.51	7.69	
(0.30 m)	1	7.51	7.69	
(0.61 m)	2	7.47	7.82	
(0.91 m)	3	7.48	8.00	
(1.22 m)	4	7.39	7.90	
(1.52 m)	5	7.35	7.81	
(1.83 m)	6	7.77	7.73	
(2.13 m)	7	7.08	7.71	
(2.44 m)	8	8.21	7.68	
(2.74 m)	9	8.25	7.63	
(3.05 m)	10		7.47	
(3.35 m)	11		7.13	
(3.66 m)	12		7.00	
(3.96 m)	13		6.66	
(4.27 m)	14		6.37	
(4.57 m)	15		6.31	
(4.88 m)	16		6.06	
(5.18 m)	17		5.90	
(5.49 m)	18			
(5.79 m)	19			
TEST POINT #4				
pH				
DEPTH (ft):	0	8.30	7.71	
(0.30 m)	1	8.30	7.72	
(0.61 m)	2	8.30	7.71	
(0.91 m)	3	8.30	7.70	
(1.22 m)	4	8.30	7.67	
(1.52 m)	5	8.30	7.65	
(1.83 m)	6	8.33	7.64	
(2.13 m)	7	8.34	7.64	
(2.44 m)	8	8.35	7.62	

LOCATION: Quemado Lake- Quemado, NM

Testing Data

DATE:		08/24/09	04/17/10	
(2.74 m)	9	8.35	7.62	
(3.05 m)	10		7.53	
(3.35 m)	11		7.51	
(3.66 m)	12		7.50	
(3.96 m)	13		7.52	
(4.27 m)	14		7.42	
(4.57 m)	15		7.42	
(4.88 m)	16		7.40	
(5.18 m)	17		7.41	
(5.49 m)	18			
(5.79 m)	19			
TEST POINT #5				
GPS LOCATION:		34.13704	34.13704	
		-108.49660	-108.49660	
START TIME:		10:49	1:10	
FINISH TIME:		11:18	1:23	
TEST POINT #5				
SECCHI DEPTH(ft.):		6.25	4.50	
TOP OF SLURRY (ft.):		NA	NA	
TOP OF SEDIMENT(ft.):		25.50	32.75	
BOTTOM OF RESERVOIR(ft.):		NA	32.75	
WATER COLOR:		Green	Clear Green / Brown	
SLURRY COLOR:		NA	NA	
SEDIMENT COLOR:		NA	NA	
FREE WATER THICKNESS (ft.):		NA	NA	
SLURRY THICKNESS (ft.):		NA	NA	
SEDIMENT THICKNESS (ft.):		NA	0.00	
TOTAL RESERVOIR DEPTH (ft.):		NA	32.75	
TEST POINT #5				
TEMPERATURE (degrees C):				
DEPTH (ft):	0	18.74	13.51	
(0.30 m)	1	18.80	12.58	
(0.61 m)	2	18.56	12.26	
(0.91 m)	3	18.47	12.00	
(1.22 m)	4	18.39	11.22	
(1.52 m)	5	18.36	11.17	
(1.83 m)	6	18.33	10.85	
(2.13 m)	7	18.31	10.47	
(2.44 m)	8	18.30	10.43	
(2.74 m)	9	18.23	10.31	
(3.05 m)	10	18.21	9.99	
(3.35 m)	11	18.18	9.83	
(3.66 m)	12	18.08	9.62	
(3.96 m)	13	17.85	9.05	
(4.27 m)	14	17.76	8.29	
(4.57 m)	15	17.74	7.80	
(4.88 m)	16	17.74	7.53	
(5.18 m)	17	17.73	7.21	
(5.49 m)	18	17.70	7.00	
(5.79 m)	19	17.63	6.81	
(6.10 m)	20	17.49	6.33	
(6.40 m)	21	17.37	6.08	
(6.71 m)	22	17.15	6.01	
(7.01 m)	23	16.96	5.74	
(7.32 m)	24	16.62	5.69	
(7.62 m)	25		5.62	
(9.14 m)	30			
(10.67 m)	35			
TEST POINT #5				
SPECIFIC CONDUCTANCE (mS/cm)				
DEPTH (ft):	0	0.438	0.193	
(0.30 m)	1	0.437	0.194	
(0.61 m)	2	0.437	0.193	
(0.91 m)	3	0.438	0.193	
(1.22 m)	4	0.437	0.194	
(1.52 m)	5	0.438	0.192	
(1.83 m)	6	0.439	0.193	
(2.13 m)	7	0.439	0.192	
(2.44 m)	8	0.439	0.192	

LOCATION: Quemado Lake- Quemado, NM

Testing Data

DATE:		08/24/09	04/17/10	
(2.74 m)	9	0.442	0.193	
(3.05 m)	10	0.441	0.194	
(3.35 m)	11	0.446	0.194	
(3.66 m)	12	0.449	0.194	
(3.96 m)	13	0.453	0.196	
(4.27 m)	14	0.454	0.198	
(4.57 m)	15	0.455	0.213	
(4.88 m)	16	0.455	0.213	
(5.18 m)	17	0.455	0.226	
(5.49 m)	18	0.456	0.231	
(5.79 m)	19	0.457	0.231	
(6.10 m)	20	0.459	0.266	
(6.40 m)	21	0.461	0.269	
(6.71 m)	22	0.464	0.269	
(7.01 m)	23	0.466	0.275	
(7.32 m)	24	0.472	0.301	
(7.62 m)	25		0.311	
(9.14 m)	30			
(10.67 m)	35			
TEST POINT #5				
DISSOLVED OXYGEN (mg/l)				
DEPTH (ft):	0	8.63	7.74	
(0.30 m)	1	8.63	7.89	
(0.61 m)	2	8.75	7.89	
(0.91 m)	3	8.54	7.90	
(1.22 m)	4	8.13	7.87	
(1.52 m)	5	7.75	7.76	
(1.83 m)	6	7.66	7.70	
(2.13 m)	7	7.46	7.69	
(2.44 m)	8	6.97	7.55	
(2.74 m)	9	5.22	7.51	
(3.05 m)	10	5.49	7.40	
(3.35 m)	11	3.35	7.39	
(3.66 m)	12	1.90	7.16	
(3.96 m)	13	0.18	7.13	
(4.27 m)	14	0.28	6.99	
(4.57 m)	15	0.15	6.72	
(4.88 m)	16	0.11	6.60	
(5.18 m)	17	0.09	6.53	
(5.49 m)	18	0.08	6.29	
(5.79 m)	19	0.09	5.97	
(6.10 m)	20	0.08	5.85	
(6.40 m)	21	0.07	5.73	
(6.71 m)	22	0.06	5.62	
(7.01 m)	23	0.07	5.21	
(7.32 m)	24	0.07	5.03	
(7.62 m)	25		4.90	
(9.14 m)	30			
(10.67 m)	35			
TEST POINT #5				
pH				
DEPTH (ft):	0	8.37	7.60	
(0.30 m)	1	8.37	7.57	
(0.61 m)	2	8.37	7.50	
(0.91 m)	3	8.36	7.45	
(1.22 m)	4	8.34	7.38	
(1.52 m)	5	8.33	7.33	
(1.83 m)	6	8.32	7.27	
(2.13 m)	7	8.32	7.25	
(2.44 m)	8	8.30	7.24	
(2.74 m)	9	8.20	7.22	
(3.05 m)	10	8.25	7.24	
(3.35 m)	11	8.06	7.21	
(3.66 m)	12	7.95	7.20	
(3.96 m)	13	7.85	7.20	
(4.27 m)	14	7.81	7.19	
(4.57 m)	15	7.81	7.19	
(4.88 m)	16	7.81	7.21	
(5.18 m)	17	7.81	7.23	
(5.49 m)	18	7.80	7.25	
(5.79 m)	19	7.77	7.28	
(6.10 m)	20	7.72	7.30	

LOCATION: Quemado Lake- Quemado, NM

Testing Data

DATE:		08/24/09	04/17/10	
(6.40 m)	21	7.67	7.32	
(6.71 m)	22	7.62	7.35	
(7.01 m)	23	7.55	7.35	
(7.32 m)	24	7.43	7.40	
(7.62 m)	25		7.44	
(9.14 m)	30			
(10.67 m)	35			
TEST POINT #6				
TEST POINT #7				
TEST POINT #8				