

DOCKET 02-AFC-4C

DATE	JUL 25 2011
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RECD.	JUL 25 2011
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July 25, 2011

Christine Stora
Compliance Unit
Siting, Transmission and Environmental Protection (STEP) Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814

Re: Walnut Energy Center 02-AFC-4C: Data Responses

Dear Ms. Stora:

On June 23, 2011, the Staff of the California Energy Commission submitted Data Requests 1-10 for the Walnut Energy Center (WEC) amendment dated January 21, 2011. The Walnut Energy Center Authority (WECA), the project owner, hereby submits the attached Data Responses to requests 1-10.

If you have any questions, please contact me at (209) 883-3451. Thank you.

Sincerely,



George A. Davies IV
Combustion Turbine Department Manager
Turlock Irrigation District

cc: Jeff Harris, Ellison Schneider & Harris
Susan Strachan, Strachan Consulting
Brian LaFollette, TID
WECA files



DATA RESPONSES

1. **Please identify and locate on a map, the wells proposed to supply groundwater to the WEC power plant.**

There are three existing wells that supply backup groundwater supply to the WEC. The construction of two of the existing wells was approved by the Commission on January 19, 2005 (Order No. 05-0119-02). Commission approval to develop a third well was granted on July 27, 2005. (Order No. 05-0727-02). A figure showing the location of the wells is included in Attachment DR-1

2. **Please provide well construction details of the wells proposed to supply groundwater to the WEC power plant.**

The information requested is set forth in Attachment DR-2, Well Completion Reports.

3. **Please provide documentation of the volume of groundwater used by WEC for the past three years.**

The information requested is set forth in Attachment DR-3, Ground Water Usage Summary for the WEC.

4. **Please provide all analytical test results of all samples collected from the groundwater used by WEC, as well as water samples from the top five feet of the water table in areas where drawdown is 10 to 50 percent of the maximum modeled drawdown, for the past three years.**

The information requested is set forth in Attachment DR-4. Attachment DR-4 includes a composite summary of water quality test data and the individual well test data for the three existing water supply wells. The analyses present available well data for the last three and one-half years, dating back to January 2008. WECA does not have data available for water samples from the top five feet of the water table in areas where drawdown is 10 to 50 percent of the maximum modeled drawdown.

5. **Please identify and locate on a map all “drainage” wells used for lowering the shallow groundwater surface within 1 mile of the WEC facility.**

- a. Please provide well construction details of these “drainage wells”.
- b. Please provide all analytical test results for water samples collected from these “drainage” wells over the past three years.

The irrigation drainage wells are not the supply source that the District seeks to use as a backup supply for the WEC. Instead, the drainage wells are mentioned only as a

conservative modeling assumption employed in the Alternative Water Supply Plan. The Alternative Water Supply Plan assumed that agricultural drainage well pumping was in addition to, not in lieu of, pumping for a backup supply to WEC in the model runs. If the District had not employed this conservative modeling assumption, the already insignificant impacts demonstrated in the Alternative Water Supply Plan would have been even smaller. CEQA does not require focusing on degrees of insignificance; if a potential impact is less than significant, as demonstrated by the Alternative Water Supply Plan, no alternative supply need be further examined.

6. **Please provide documentation of all deliveries of recycled water to WEC and all interruptions in delivery of the recycled water to WEC since the project started receiving recycled water.**

Please see the attached records of annual groundwater usage, DR-6. This information has also previously been provided to the Commission in each Annual Compliance Report for the WEC.

7. **Please provide a copy of the agreement with the WWTP for delivery of the recycled wastewater to WEC.**

The information requested is set forth in Attachment DR-7. Attachment DR-7 is a copy of the Recycled Water Services Agreement between the City of Turlock and TID, dated January 25, 2005.

Under the terms of the Recycled Water Services Agreement, the City of Turlock can interrupt water deliveries if an “emergency,” as defined in the Agreement, exists. An “emergency” is defined as follows: “For the purposes of this Agreement, an ‘emergency’ shall be defined as a biological, electrical or mechanical failure that affects the City’s ability to deliver Recycled Water to the Power Generation Facility.” Under the terms and conditions of the Agreement, the City is not obligated to provide any further explanation for the declaration of an emergency under the Agreement. Moreover, it is within the City’s sole discretion to declare an emergency.

8. **Regarding the interruptions in delivery of recycled water to WEC, please provide any information offered by the WWTP as to the causes of the interruptions.**

While the City is under no obligation to disclose the nature of the declared emergency, TID understands that the emergency declaration typically occurs when the City is unable to both meet its obligations under its NPDES permit and still deliver recycled water to the WEC. Specifically, TID is informed that recycled water supplies were interrupted when the City WWTP became

concerned about the water “chemistry” of the WWTP effluent (i.e., the ability to meet the WWTP’s discharge requirements).

While it is reasonable to assume that water not delivered to TID during an interruption is being used as additional volume to supplement water being discharged by the WWTP, as a customer of the WWTP, TID has no knowledge as to whether this assumption is correct. As explained in the Amendment:

Since the City of Turlock has begun supplying recycled water to WEC, interruptions of this recycled supply have been more frequent than anticipated. Operational data from the WWTP, which shows a 14% decrease in effluent flow from year 2006 (when WEC was declared Commercial) to present day, is likely due, in part, to the economic downturn and the poor housing market in the Central Valley. This decreased in-flow to the WWTP facility may help explain why the City WWTP has not had adequate water for the needs of the Walnut Energy Center. (Amendment, p. 3.)

For additional specifics on these issues, please refer to the email sent to Casey Weaver on June 14, 2010. Please also refer to the Amendment Application submitted January 2011. Also see attached disruption log, attached hereto as Attachment DR-8.

9. Please provide any information supplied by the WWTP pertaining to their plans to correct the problems that prevent reliable and adequate delivery of the recycled water to WEC.

As noted in the Amendment, TID has taken the initiative to reduce the likelihood for interruption:

3. Improved City WWTP Operation Protocols: TID had several discussions with the management staff at the City of Turlock WWTP. TID has asked the City of Turlock to take all reasonable operating steps to reduce the frequency and duration of interruptions in Recycled Water flow by changing WWTP operating protocols. The WWTP has three pumps on site dedicated to serve WEC: a primary or “lead” pump that supplies the bulk of the WEC’s water service and a secondary or “lag” pump that operates to supplement the lead pump, and a third pump to act as a spare. Under the former protocol, the WWTP typically operated lead and lag pumps simultaneously to deliver recycled water to the WEC’s 500,000 gallon recycled water holding tank. Under this former protocol, when the City WWTP became concerned about the water “chemistry” of the WWTP effluent (i.e., the ability to meet the WWTP’s discharge requirements), the City

would shutdown both the lead and lag pump simultaneously. Under the new protocol, to the extent feasible, the WWTP operators will only trip one pump at a time, the lagging pump, allowing the lead pump to operate as long as the WWTP operator feels that the lead pump's operations will not adversely affect the chemistry of the WWTP's effluent. This new protocol increases the complexity of the WWTP's operations and, understandably, the WWTP is obligated to take actions to maintain water chemistry. Nevertheless, this new protocol and the City WWTP's awareness of the importance of not interrupting Recycled Water supply to the extent feasible may allow the City to avoid or minimize curtailments of Recycled Water, thus avoiding the use of degraded shallow ground water. (Amendment, p. 4.)

For additional specifics on these issues, please refer to the email sent to Casey Weaver on June 14, 2010.

10. Please describe what changes could be made at WEC to treat the recycled water that does not currently meet the project water quality requirements for use.

TID does not have the power to accept or reject "recycled water" from the City's WWTP that does not meet the requirements of Title 22. The burden of satisfying Title 22 requirements rests solely with the WWTP. The City owns, operates, and maintains the WWTP. The City is solely responsible for all regulatory requirements associated with the WWTP. TID is simply a customer of the WWTP.

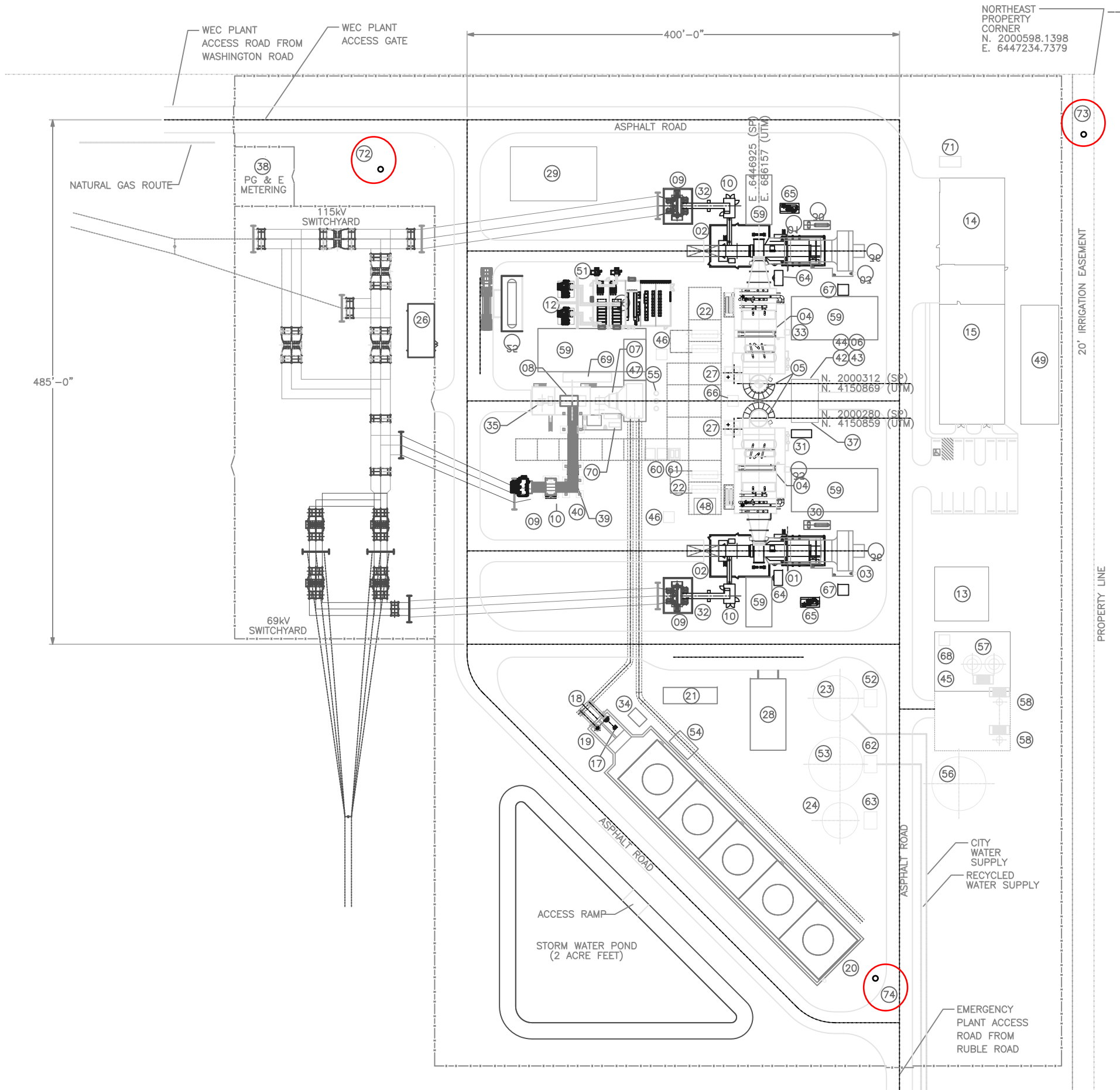
If this request is focusing on whether TID could build and license its own Title 22 compliant water treatment facility on site, then TID respectfully submits that the construction of redundant, on-site water treatment facilities would be economically wasteful and an unreasonable burden on the District's ratepayer-owners.

As you may recall, TID has made substantial investments in facilities designed to accept recycled water, its preferred source for 100% of its water needs. In fact, TID has recently invested \$2.2 million dollars (\$2,200,000) in Capital Improvements Funds over the last three years to optimize its on-site water treatment facilities to accept recycled water. That on-site system has also been designed to accept groundwater from the on-site wells as a backup water supply. It would be unduly burdensome and financially wasteful to replicate the WWTP facilities equipment on-site. TID staff could not recommend to TID's elected Board of Directors that they make such an investment.

Further, while the WWTP is owned and operated by a completely separate entity, the City of Turlock, TID is the "anchor tenant" for the City's WWTP. That status is reflected in TID's payment for its proportionate share of the costs of the on-site

facilities at the WWTP and TID's sole payment for the costs associated with the three mile pipeline and on-site systems built to receive recycled water.

ATTACHMENT DR-1



- 37 CEMS/LAB ENCLOSURE
- 38 GAS METERING YARD
- 39 EXCITATION TRANSFORMER (STG)
- 40 ISO PHASE BUS DUCT
- 41 NOT USED
- 42 SAMPLE PANEL & LAB
- 43 CYCLE CHEMICAL FEED
- 44 HRSG MCC's
- 45 ZERO LIQUID DISCHARGE SYSTEM AREA
- 46 OILY WASTEWATER SUMP
- 47 CONDENSER
- 48 AIR COMPRESSOR PACKAGE
- 49 LEACH FIELD
- 50 NOT USED
- 51 AUX TRANSFORMER 4160-480 V
- 52 FIRE PUMP SKID
- 53 RECYCLED WATER STORAGE TANK
- 54 COOLING TOWER STAIR TOWER
- 55 CONDENSATE PUMPS
- 56 COOLING TOWER BLOWDOWN STORAGE TANK
- 57 BRINE CONCENTRATORS
- 58 CRYSTALLIZERS
- 59 CRANE AREA/MAINTENANCE
- 60 CLOSED COOLING WATER HEAT EXCHANGERS
- 61 CLOSED COOLING WATER PUMPS
- 62 SERVICE WATER BLOWDOWN PUMPS
- 63 DEMINERALIZED WATER PUMPS
- 64 GAS VALVE MODULE
- 65 CO2 FIRE PROTECTION
- 66 BLOWDOWN SUMP/PUMPS
- 67 GAS FILTER/SEPARATOR
- 68 ZLD WASTEWATER SUMP
- 69 ST LUBE OIL SKID
- 70 ST GLAND STEAM SKID
- 71 OIL STORAGE SHED

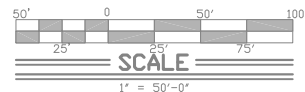
- 72 WELL #1
- 73 WELL #2
- 74 WELL #3

- 1 COMBUSTION TURBINE (CT)
- 2 CT GENERATOR
- 3 CT AIR INLET SYSTEM
- 4 HEAT RECOVERY STEAM GENERATOR (HRSG)
- 5 HRSG STACK
- 6 CONTINUOUS EMISSIONS MONITORS (CEMS)
- 7 IP/LP STEAM TURBINE
- 8 ST GENERATOR
- 9 GENERATOR STEPUP TRANSFORMER W/FIREWALL
- 10 GENERATOR CIRCUIT BREAKER
- 11 NOT USED
- 12 UNIT AUXILIARY TRANSFORMER W/FIREWALL
- 13 WATER TREATMENT BLDG
- 14 WAREHOUSE/MAINTENANCE BLDG
- 15 ADMIN/CONTROL ROOM BLDG
- 16 BOP ELECTRICAL PDC
- 17 AUX. COOLING WATER PUMP
- 18 CIRCULATING WATER PIPING
- 19 CIRCULATING WATER PUMPS
- 20 COOLING TOWER
- 21 COOLING TOWER ELECTRICAL PDC
- 22 BOILER FEED PUMPS
- 23 SERVICE/FIRE WATER STORAGE TANK
- 24 DEMIN. WATER STORAGE TANK
- 25 AMMONIA STORAGE TANK W/BARRIER WALL
- 26 SWITCHYARD CONTROL BUILDING
- 27 BLOWDOWN TANK
- 28 COOLING TOWER CHEMICAL FEED BUILDING
- 29 FUEL GAS COMPRESSOR/EQUIPMENT AREA
- 30 WATER WASH TANK
- 31 WATER WASH SKID
- 32 NON-SEGREGATED BUS DUCT
- 33 AMMONIA INJECTION SKID
- 34 OIL/WATER SEPARATOR
- 35 HP STEAM TURBINE
- 36 PEECC

NOTES

1. STATE PLANE (SP) COORDINATES ARE BASED ON CALIFORNIA 3 - 0403 ZONE AND HORIZONTAL DATUM IS NAD83. UNIT OF MEASURE IS FEET.
2. (UTM) COORDINATES ARE BASED ON ZONE 10 AND HORIZONTAL DATUM IS NAD27. UNIT OF MEASURE IS METERS.
3. FINISHED GRADE ELEVATION IS 86.5' AMSL

PLANT COORDINATES	STATE COORDINATES
N 10000.00'	N 2000312'
E 5000.00'	E 6446925'
ELEV. 100.00'	ELEV. 87'



0 ISSUE FOR CONSTRUCTION

GENERAL ARRANGEMENT

ATTACHMENT DR-2

Well Pump #1

North West Well

TRIPLICATE
Owner's Copy

Page 1 of 1

Owner's Well No. WALNUT#1

Date Work Began 7/25/2005, Ended 10/18/2005

Local Permit Agency CITY OF TURLOCK APPROVED

Permit No. _____ Permit Date _____

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. **1097079**

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO. _____

LATITUDE _____ LONGITUDE _____

APN/TRS/OTHER _____

GEOLOGIC LOG

ORIENTATION (✓)			DRILLING METHOD	FLUID	DESCRIPTION
VERTICAL HORIZONTAL ANGLE (SPECIFY)			ROTARY	MUD	
DEPTH FROM SURFACE			Describe material, grain, size, color, etc.		
Ft.	to	Ft.			
0	6		CLAY		
6	8		SAND		
8	13		CLAY		
13	29		SAND		
29	34		BROWN CLAY		
34	41		GRAY CLAY		
41	46		FINE SAND		
46	59		CLAY		
59	64		COARSE SAND		
64	66		CLAY		
66	72		FINE SAND		
72	81		GRAY CLAY		
81	102		SHALE RED CLAY		
102	119		SAND WITH SMALL CLAY STREAKS		
119	137		FINE SAND		
137	139		GRAY CLAY		
139	149		COARSE SAND		
149	152		GRAY CLAY		
152	159		FINE SAND		
159	162		BLUE CLAY		
162	188		FINE SAND		
188	200		BLUE CLAY		

TOTAL DEPTH OF BORING 200 (Feet)

TOTAL DEPTH OF COMPLETED WELL 195 (Feet)

WELL OWNER

Name TURLOCK IRRIGATION DISTRICT

Mailing Address P.O. BOX 949

TURLOCK CA 95381

CITY STATE ZIP

Address 600 WASHINGTON ROAD

City TURLOCK CA 95380

County Stanislaus

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude _____

DEG. MIN. SEC. _____

LOCATION SKETCH

NORTH

WEST

EAST

SOUTH

ACTIVITY (✓)

☒ NEW WELL

MODIFICATION/REPAIR

Deepen _____

Other (Specify) _____

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)

WATER SUPPLY

Domestic _____ Public _____

Irrigation ☒ Industrial _____

MONITORING _____

TEST WELL _____

CATHODIC PROTECTION _____

HEAT EXCHANGE _____

DIRECT PUSH _____

INJECTION _____

VAPOR EXTRACTION _____

SPARGING _____

REMEDICATION _____

OTHER (SPECIFY) _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____

ESTIMATED YIELD _____ (GPM) & TEST TYPE _____

TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)

May not be representative of a well's long-term yield.

DEPTH FROM SURFACE			BORE-HOLE DIA. (Inches)	CASING (S)				MATERIAL GRADE	INTERNAL DIAMETER (Inches)	GALVE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	ANNULAR MATERIAL						
Ft.	to	Ft.		TYPE (✓)	BLANK	SCREEN	CONDUCTOR					FILL PIPE	DEPTH FROM SURFACE	TYPE				
Ft.	to	Ft.										Ft.	to	Ft.				
0	110		36	✓				STEEL	18	1/4"		0	20		✓			
110	190		36	✓				STEEL	18	1/4"	.060	20	195				6X16 GRAVEL	
190	195		36	✓				STEEL	18	1/4"								

ATTACHMENTS (✓)

Geologic Log
Well Construction Diagram
Geophysics Log(s)
Soil/Water Chemical Analysis
Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME CALWATER DRILLING CO., INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

300 S. Kilduff Rd.

ADDRESS

Signed _____

WELL DRILLER AUTHORIZED REPRESENTATIVE

Turlock

CITY

CA

STATE

95380

ZIP

01/08/06

DATE SIGNED

434218

C-57 LICENSE NUMBER

Well Pump #2

North East Well

TRIPPLICATE
Owner's Copy

Page 1 of 1

Owner's Well No. WALNUT#2

Date Work Began 5/6/2005, Ended 7/13/2005

Local Permit Agency CITY OF TURLOCK APPROVED

Permit No. _____ Permit Date _____

STATE OF CALIFORNIA

LL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **1097078**

— DWR USE ONLY — DO NOT FILL IN

STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

GEOLOGIC LOG

ORIENTATION (✓) ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE (SPECIFY)

DRILLING METHOD ROTARY FLUID MUD

DEPTH FROM SURFACE
Ft. to Ft. DESCRIPTION
Describe material, grain, size, color, etc.

0	14	CLAY
14	24	SAND
24	26	CLAY
26	40	SAND
40	50	CLAY
50	65	SAND
65	108	CLAY
108	115	SAND
115	132	FINE SAND AND CLAY STREAKS
132	142	CLAY
142	148	SAND
148	156	BLUE CLAY
156	162	BLUE SAND
162	180	BLUE CLAY

TOTAL DEPTH OF BORING 180 (Feet)

TOTAL DEPTH OF COMPLETED WELL 180 (Feet)

WELL OWNER

Name TURLOCK IRRIGATION DISTRICT

Mailing Address P.O. BOX 949

TURLOCK

CA 95381

CITY

STATE

ZIP

Address 600 WASHINGTON ROAD

City TURLOCK CA 95380

County Stanislaus

APN Book

Page

Parcel

Township

Range

Section

Latitude

DEG. MIN. SEC.

DEG. MIN. SEC.

LOCATION SKETCH

NORTH

WEST

EAST

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

☒ NEW WELL

MODIFICATION/REPAIR

Deepen

Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)

WATER SUPPLY

Domestic ☐ Public ☐

Irrigation ☒ Industrial ☐

MONITORING

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT FISH

INJECTION

VAPOR EXTRACTION

SPARGING

REMEDICATION

OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER (FL) BELOW SURFACE

DEPTH OF STATIC

WATER LEVEL (FL) & DATE MEASURED 6/13/2005

ESTIMATED YIELD (GPM) & TEST TYPE

TEST LENGTH (Hrs.) TOTAL DRAWDOWN (FL)

May not be representative of a well's long-term yield.

DEPTH FROM SURFACE		BORE HOLE DIA. (Inches)	CASING (S)				SLOT SIZE IF ANY (Inches)
Ft.	to Ft.		TYPE (✓)	MATERIAL GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	
0	50	36	<input checked="" type="checkbox"/>	STEEL	18	250	
50	70	36	<input checked="" type="checkbox"/>	STEEL	18	250	.060
70	110	36	<input checked="" type="checkbox"/>	STEEL	18	250	
110	170	36	<input checked="" type="checkbox"/>	STEEL	18	250	.060

DEPTH FROM SURFACE		ANNULAR MATERIAL			
Ft.	to Ft.	CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	30	<input checked="" type="checkbox"/>			
30	180				6X16 GRAVEL

ATTACHMENTS (✓)

Geologic Log
Well Construction Diagram
Geophysical Log(s)
Soil/Water Chemical Analysis
Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME CALWATER DRILLING CO., INC.

(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

300 S. Kilroy Rd.

ADDRESS

Turlock

CITY

CA

STATE

95380

ZIP

Signed

WELL DRILLER AUTHORIZED REPRESENTATIVE

01/08/06

DATE SIGNED

434218

C-57 LICENSE NUMBER

Well Pump # 3

South Well

TRIPPLICATE
Owner's Copy

Page 1 of 2

Owner's Well No. WALNUT ENERGY #13

Date Work Began 2/16/2005, Ended 2/16/2005

Local Permit Agency CITY OF TURLOCK APPROVED

Permit No. Permit Date.

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. 1096825

DWR USE ONLY -- DO NOT FILL IN	
STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/RS:OTHER	

GEOLOGIC LOG				WELL OWNER	
ORIENTATION (✓) <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/> ANGLE .. (SPECIFY)				Name TURLOCK IRRIGATION DISTRICT	
DEPTH FROM SURFACE FL. to FL.				Mailing Address P.O. BOX 949	
DRILLING METHOD ROTARY				TURLOCK CA 95381	
FLUID ..				CITY STATE ZIP	
DESCRIPTION Describe material, grain, size, color, etc.				WELL LOCATION	
0 5 SAND & CLAY STREAKS				Address 600 S. WASHINGTON ROAD	
5 18 COARSE SAND				City TURLOCK CA 95380	
18 34 CLAY				County Stanislaus	
34 38 COARSE SAND				APN Book Page Parcel	
38 49 CLAY				Township Range Section	
49 57 CLAY WITH SAND STREAKS				Latitude	
57 69 DRY CLAY & SHALE				DEG. MIN. SEC. DEG. MIN. SEC.	
69 72 FINE TO MEDIUM SAND				LOCATION SKETCH	
72 100 CLAY				NORTH	
100 104 SAND				WEST EAST	
104 140 CLAY				ACTIVITY (✓)	
140 150 COARSE SAND				<input checked="" type="checkbox"/> NEW WELL	
150 154 BLUE CLAY				MODIFICATION/REPAIR	
154 159 BROWN CLAY				-- Deepen	
159 194 BLUE CLAY & SMALL SAND STREAKS				-- Other (Specify)	
194 196 BLUE FINE SAND				DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")	
196 198 BLUE CLAY				PLANNED USES (✓)	
198 201 BLUE SAND FINE & COARSE				WATER SUPPLY	
201 202 BLUE CLAY				-- Domestic -- Public	
202 206 COARSE BROWN SAND				-- Irrigation <input checked="" type="checkbox"/>	
206 214 BROWN CLAY				MONITORING --	
214 221 COARSE SAND				TEST WELL --	
221 229 GRAY CLAY				CATHODIC PROTECTION --	
229 252 COARSE SAND				HEAT EXCHANGE --	
252 274 GRAY CLAY SMALL SAND STREAKS				DIRECT PUSH --	
274 278 COARSE SAND				INJECTION --	
278 281 GRAY CLAY				VAPOR EXTRACTION --	
281 287 COARSE SAND				SPARGING --	
287 290 BROWN CLAY				REMEDIATION --	
290 305 COARSE SAND				OTHER (SPECIFY) --	
TOTAL DEPTH OF BORING 320 (Feet)				WATER LEVEL & YIELD OF COMPLETED WELL	
TOTAL DEPTH OF COMPLETED WELL 180 (Feet)				DEPTH TO FIRST WATER (FL) BELOW SURFACE	
				DEPTH OF STATIC	
				WATER LEVEL (FL) & DATE MEASURED	
				ESTIMATED YIELD (GPM) & TEST TYPE	
				TEST LENGTH (Hrs.) TOTAL DRAWDOWN (FL)	
				Note: not be representative of a well's long-term yield.	

DEPTH FROM SURFACE		BORE-HOLE DIA. (Inches)	CASING (S)					ANNULAR MATERIAL			
Ft	to Ft		TYPE (✓)	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)	CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	110		<input checked="" type="checkbox"/>	STEEL	18		250				
110	180		<input checked="" type="checkbox"/>	STEEL	18						

ATTACHMENTS (✓)		CERTIFICATION STATEMENT	
Geologic Log		I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.	
Well Construction Diagram		NAME CALWATER DRILLING CO., INC.	
Geophysical Log(s)		(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)	
Soil/Water Chemical Analysis		300 S. Kilroy Rd. Turlock CA 95380	
Other		ADDRESS CITY STATE ZIP	
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.		Signed WELL DRILLER/AUTHORIZED REPRESENTATIVE	
		01/08/06 434218	
		DATE SIGNED C-57 LICENSE NUMBER	

DWR USE ONLY -- DO NOT FILL IN									
STATE WELL NO.: STATION NO.									
LATITUDE					LONGITUDE				
APN/TRS/OTHER									

No. 1096825

Local Permit Agency CITY OF TURLOCK APPROVED

Permit No.

Permit Date

GEOLOGIC LOG

WELL OWNER

[illegible]

NAME TURLOCK IRRIGATION DISTRICT WELL OWNER

MAILING ADDRESS P.O. BOX 949

CITY TURLOCK STATE CA ZIP 95381

Address 600 S. WASHINGTON ROAD WELL LOCATION

CITY TURLOCK CA 95380

County Stanislaus

APN Book _____ Page _____ Parcel _____

Township _____ Range _____ Section _____

Latitude _____

DEG. MIN. SEC. LOCATION SKETCH NORTH

DEG. MIN. SEC. ACTIVITY ☒ NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify) _____

DESTROY (Describe Procedures and Material Under GEOLOGIC LOG)

PLANNED USES (☒)

WATER SUPPLY

Domestic ___ Public ___

___ Irrigation ☒ Industrial ___

MONITORING

TEST WELL ___

CATHODIC PROTECTION ___

HEAT EXCHANGE ___

DIRECT PUSH ___

INJECTION ___

VAPOR EXTRACTION ___

SPARGING ___

REMEDIATION ___

OTHER (SPECIFY) _____

WEST SOUTH

EAST

Illustrate or Describe Distance of Well from Roads, Buildings, Fence, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD * _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
May not be representative of a well's long-term yield.

[illegible]

DEPTH FROM SURFACE		ANNULAR MATERIAL			
		TYPE			FILTER PACK (TYPE/SIZE)
ft.	to ft.	CE- MENT (✓)	BEN- TONITE (✓)	FILL (✓)	
0	100	✓			
100	180				

ATTACHMENTS (✓)

Geologic Log
Well Construction Diagram
Geophysical Log(s)
Soil/Water Chemical Analysis
Other

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME CALWATER DRILLING CO., INC.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

300 S. Kilroy Rd.

Turlock

CA

95380

ADDRESS

CIT

STATE

ZIP

Signed _____
WELL DRILLER/AUTHORIZED REPRESENTATIVE

01/08/06
DATE SIGNED

434218
C-57 LIC

9

IR 155 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ATTACHMENT DR-3

WEC GROUND WATER						
Water Use (Gallons)						
	2012-2013	2011-2012	2010-2011	2009-2010	2008-2009	2007-2008
Apr		54,000	1,353,000	3,095,000	368,340	
May		133,000	689,000	2,395,000	0	
Jun			2,435,000	2,667,000	1,239,810	
Jul			1,402,000	1,716,000	498,924	
Aug			168,000	1,640,000	47,552	331,490
Sep			511,000	1,353,000	4,825,000	466,740
Oct			520,000	2,014,000	87,000	458,130
Nov			626,000	4,032,000	527,000	67,940
Dec			842,000	2,401,000	3,212,000	3,944,420
Jan			20,678,000	3,038,000	2,171,500	7,673,610
Feb			6,319,000	1,563,000	6,131,500	10,890,620
Mar			0	1,033,000	5,642,000	6,763,360
Annual Total	0	187,000	35,543,000	26,947,000	24,750,626	30,596,310
[Gallons]						
Annual Total	0.00	0.57	109.08	82.70	75.96	93.90
[Acre-Ft]						
5 Year Rolling	53.66	72.44	90.41	84.18	84.93	93.90
Average						
[Acre-Feet]						
Yearly Range	109.08	108.50	33.12	17.94	17.94	0.00
[Acre-Feet]						

1 Acre-Foot= 325851 GALLONS

5 YEAR ROLLING AVERAGE LIMIT IS 51 AFY

ATTACHMENT DR-4

WALNUT ENERGY CENTER

COMPOSITE GROUND WATER CHEMISTRY RESULTS

Timestamp	Calcium Hardness (CaCo3)	Silica	Alkalinity	Specific Conductivity	Water pH
	ppm	ppm	ppm	unhos	pH
	Value	Value	Value	Value	Value
1/8/2008 12:03:00 PM	172	46.8	222	670	7.56
1/8/2008 10:51:00 PM	166	44.8	224	659	7.77
1/9/2008 11:21:00 AM	170	44.5	216	686	7.88
1/20/2008 11:52:00 AM	180	52.5	230	661	7.8
1/20/2008 11:32:00 PM	170	39.1	220	657	7.94
1/21/2008 10:00:00 AM	170	51.3	244	650	7.85
1/21/2008 11:01:00 PM	170	54.2	218	645	7.88
1/22/2008 10:00:00 AM	158	50.6	224	651	7.86
1/22/2008 11:15:00 PM	162	51.1	222	654	8
1/23/2008 11:41:00 PM	162	39.3	220	657	7.95
1/24/2008 11:12:00 PM	158	53.4	216	642	7.86
1/25/2008 10:55:00 AM	156	51.6	220	667	7.73
1/29/2008 9:12:00 PM	160	51.9	222	650	7.85
1/30/2008 11:18:00 AM	148	48.6	206	662	7.94
1/31/2008 6:26:00 PM	156	55.1	208	654	7.97
1/31/2008 11:33:00 PM	160	51.6	206	654	7.94
2/1/2008 5:02:00 AM	173	54.7	213	655	7.96
2/1/2008 10:25:00 AM	164	54.7	216	676	7.71
2/1/2008 11:30:00 PM	164	44.9	220	660	7.84
2/2/2008 10:00:00 AM	156	49.8	230	633	7.58
2/2/2008 11:46:00 PM	156	53.7	208	663	7.79
2/3/2008 3:22:00 PM	158	55.3	220	668	7.69
2/4/2008 12:35:00 AM	160	48.2	210	666	7.73
2/5/2008 11:03:00 PM	154	52.6	208	665	7.82
2/6/2008 10:55:00 AM	160	53.5	226	657	7.78
2/18/2008 10:34:00 PM	162	56.4	216	663	7.74
2/19/2008 12:45:00 PM	156	51.5	208	671	7.81
2/19/2008 11:00:00 PM	182	41.3	230	663	7.78
2/20/2008 11:22:00 AM	154	49.4	228	671	7.79
2/20/2008 11:02:00 PM	158	55.3	216	677	7.83
2/21/2008 12:38:00 PM	166	49.6	240	676	7.79
2/22/2008 9:43:00 AM	160	53.9	210	671	7.71
2/23/2008 12:31:00 PM	160	53.1	218	674	7.82
2/24/2008 4:13:00 AM	148	49.6	206	711	7.77
2/25/2008 8:57:00 AM	158	52.6	216	677	7.77
2/26/2008 11:59:00 AM	162	53.1	216	678	7.87
2/26/2008 9:10:00 PM	160	52.8	220	670	8.01
2/27/2008 11:10:00 AM	156	51.4	220	671	7.81
2/28/2008 11:38:00 AM	162	48.8	220	681	7.86
2/28/2008 10:00:00 PM	160	52.1	236	680	7.84
2/29/2008 10:49:00 AM	156	52.7	212	675	7.88
2/29/2008 11:04:00 PM	160	55.1	210	686	7.82
3/1/2008 10:19:00 AM	144	52.6	208	674	7.89
3/1/2008 10:29:00 PM	176	52.3	232	694	7.85
3/2/2008 11:39:00 AM	146	48.7	212	681	7.97
3/2/2008 11:16:00 PM	164	54.6	218	684	7.86
3/3/2008 10:52:00 AM	108	52.9	212	679	7.97
3/3/2008 10:00:00 PM	158	45.5	234	693	7.87
3/4/2008 10:14:00 AM	150	53	206	681	7.9
3/4/2008 11:06:00 PM	186	55.2	234	753	7.82
3/5/2008 11:23:00 AM	168	49.9	222	692	7.99
3/6/2008 10:32:00 AM	162	33.3	220	695	7.85
3/6/2008 10:00:00 PM	184	45.3	254	760	7.84
3/6/2008 11:55:00 PM	190	55.5	264	865	7.91

WALNUT ENERGY CENTER

COMPOSITE GROUND WATER CHEMISTRY RESULTS

Timestamp	Calcium Hardness (CaCo3)	Silica	Alkalinity	Specific Conductivity	Water pH
	ppm	ppm	ppm	unhos	pH
	Value	Value	Value	Value	Value
3/7/2008 9:54:00 AM	186	53.3	204	866	7.95
3/7/2008 10:49:00 PM	192	51.9	230	869	7.89
3/8/2008 12:41:00 PM	190	52.9	220	870	7.92
3/8/2008 10:44:00 PM	192	52.9	254	879	7.92
3/9/2008 10:13:00 AM	186	44.2	242	884	7.86
3/9/2008 11:34:00 PM	190	41.2	266	863	7.94
3/10/2008 1:21:00 AM	186	52.3	264	868	7.9
3/10/2008 11:09:00 AM	190	51.3	260	859	8.03
3/11/2008 3:17:00 PM	192	54	264	870	7.64
3/11/2008 10:55:00 PM	192	55	250	868	7.98
3/12/2008 11:10:00 AM	190	55	260	865	7.97
3/12/2008 10:10:00 PM	200	38.9	272	864	7.91
3/13/2008 11:06:00 AM	188	54.7	262	868	7.93
3/13/2008 11:55:00 PM	190	51	266	860	8.05
3/14/2008 10:10:00 AM	180	50	264	877	7.79
3/14/2008 11:24:00 PM	192	52.3	268	868	7.94
3/15/2008 10:00:00 PM	194	51.3	278	865	7.95
3/15/2008 11:19:00 PM	180	55.2	250	868	8
3/16/2008 12:23:00 PM	190	57.2	260	873	7.91
3/16/2008 11:29:00 PM	188	49.5	260	877	7.98
3/17/2008 10:06:00 AM	188	48.7	270	859	7.96
3/17/2008 11:05:00 PM	190	53.3	260	872	7.91
3/18/2008 9:49:00 AM	188	56.7	258	865	7.94
4/4/2008 11:51:00 AM	170	53.4	220	695	7.92
6/27/2008 6:30:00 AM		49		819	7.71
7/26/2008 9:10:00 PM					21.2
9/18/2008 10:44:00 PM	180	52.4	240	531	7.79
9/19/2008 8:18:00 AM	208	50.5	222	589	7.61
9/25/2008 11:14:00 AM	190	22.4	226	741	7.83
9/25/2008 10:49:00 PM	196	53.1	224	574	7.73
9/26/2008 9:19:00 AM	190	55.2	228	576	7.72
11/29/2008 12:45:00 PM	178	52.6	246	599	7.68
12/23/2008 10:05:00 AM	164	54	218	648	7.78
12/30/2008 9:16:00 PM	162	51.6	214	644	7.64
12/31/2008 10:53:00 AM	145	50.8	200	700	7.62
1/2/2009 10:40:00 AM	164	53	268	622	7.76
1/3/2009 9:47:00 AM	138	46.2	240	681	7.79
1/10/2009 11:56:00 PM	160	51.9	220	663	7.89
1/11/2009 9:42:00 AM	154	52.9	218	693	7.81
1/16/2009 11:09:00 AM	182	53.3	240	654	7.72
1/18/2009 11:05:00 AM	156	41.7	222	658	7.8
1/18/2009 9:32:00 PM	150	54.1	224	653	7.91
1/19/2009 9:58:00 PM	232158	31.8	158	653	7.72
1/20/2009 12:06:00 PM	156	49	220	663	7.78
1/21/2009 12:22:00 PM	168	55.3	176	653	7.78
1/23/2009 11:45:00 AM	180	49.5	230	656	7.73
1/31/2009 11:07:00 AM	168	56	84	640	7.68
1/31/2009 9:33:00 PM	162	54.3	216	651	7.7
2/7/2009 10:08:00 AM	150	50.1	210	657	7.28
2/8/2009 3:44:00 PM	148	46.2	186	694	7.16
2/9/2009 10:46:00 AM	160	53.5	210	660	7.33
2/17/2009 12:45:00 PM	160	47.7	238	674	7.84
2/18/2009 10:03:00 AM	156	52.1	216	664	7.77
2/20/2009 11:45:00 PM	158	55.7	224	663	7.74

WALNUT ENERGY CENTER

COMPOSITE GROUND WATER CHEMISTRY RESULTS

Timestamp	Calcium Hardness (CaCo3)	Silica	Alkalinity	Specific Conductivity	Water pH
	ppm	ppm	ppm	unhos	pH
	Value	Value	Value	Value	Value
2/21/2009 12:00:00 PM	166	50.3	220	683	7.62
2/21/2009 11:53:00 PM	160	41.3	226	680	7.66
2/24/2009 10:58:00 AM	160	53.9	220	682	7.88
2/25/2009 2:55:00 PM	158	52.8	240	686	7.39
2/28/2009 11:09:00 AM	162	54	208	612	7.76
3/1/2009 3:04:00 PM	160	54.5	216	603	7.74
3/4/2009 5:51:00 PM	166	54.5	220	691	7.75
3/6/2009 12:52:00 PM	160	54.9	224	668	7.68
3/7/2009 2:03:00 PM	168	41.6	224	687	7.39
3/8/2009 9:11:00 AM	170	41.3	244	735	7.69
3/13/2009 10:06:00 AM	152	52.2	222	650	7.68
3/15/2009 12:00:00 PM	154	44.3	228	654	7.54
3/18/2009 11:38:00 AM	160	37.8	220	653	7.74
3/19/2009 11:59:00 AM	170	34.8	224	649	7.75
3/20/2009 12:00:00 PM	144	54.4	216	649	7.64
3/21/2009 10:07:00 AM	182	44.6	248	649	7.7
3/24/2009 12:17:00 PM	158	54.6	220	645	7.65
4/3/2009 10:20:00 AM	62	53.3	126	703	7.84
4/4/2009 11:47:00 PM	156	55.9	216	666	7.66
4/5/2009 2:56:00 PM	148	56.8	204	704	7.84
4/5/2009 10:00:00 PM	196	53.2	254	737	7.69
4/6/2009 11:48:00 AM	188	38.8	248	776	7.54
4/6/2009 11:56:00 PM	184	51	232	776	7.57
4/8/2009 10:15:00 AM	230	54.9	254	672	7.4
4/11/2009 12:32:00 PM	172	31.4	264	671	7.62
4/12/2009 10:54:00 AM	160	61.6	220	670	7.62
5/12/2009 10:04:00 AM	172	44.4	232	685	7.68
5/23/2009 11:14:00 AM	176	33.5	230	685	7.65
5/24/2009 10:26:00 AM	178	54	224	644	7.63
5/25/2009 11:11:00 AM	164	36.6	236	647	7.73
5/28/2009 11:47:00 AM	73.4	57.6	58	641	7.79
5/29/2009 10:36:00 AM	60	48.2	48	6.96	7.58
5/31/2009 7:39:00 AM	48	46.2	50	7.12	7.31
6/6/2009 9:43:00 AM	160	47.3	220	663	7.6
6/7/2009 10:33:00 AM	180	55.4	230	735	7.62
6/14/2009 11:24:00 AM	170	27	230	633	7.59
6/21/2009 10:26:00 AM	156	56.5	214	637	7.79
6/28/2009 11:58:00 AM	148	57.3	220	632	7.79
7/10/2009 11:45:00 AM	172	42.3	234	717	7.62
7/12/2009 10:36:00 AM	178	36.3	228	656	7.35
7/15/2009 11:40:00 AM	162	55.1	218	644	7.67
8/1/2009 11:32:00 AM	186	49.3	152	759	7.63
8/2/2009 9:12:00 AM	178	55	232	728	7.71
8/8/2009 10:27:00 AM	124	55.8	120	748	7.63
8/15/2009 11:11:00 AM	178	51.9	226	722	7.74
8/16/2009 7:29:00 AM	162	51.4	214	686	7.82
9/7/2009 12:59:00 PM	222	57.2	160	706	7.18
9/13/2009 9:37:00 AM	190	27.9	234	772	7.72
9/26/2009 10:16:00 AM	200	48.6	254	760	7.57
10/3/2009 10:23:00 AM	188	58.6	230	702	7.81
10/11/2009 1:17:00 PM	164	47.5	224	639	7.6
10/11/2009 1:17:00 PM	164	47.5	224	639	7.6
11/26/2009 10:54:00 PM	162	54.2	224	651	7.67
11/27/2009 11:18:00 AM	160	54.2	143	668	7.47

WALNUT ENERGY CENTER

COMPOSITE GROUND WATER CHEMISTRY RESULTS

Timestamp	Calcium Hardness (CaCo3)	Silica	Alkalinity	Specific Conductivity	Water pH
	ppm	ppm	ppm	unhos	pH
	Value	Value	Value	Value	Value
11/27/2009 11:55:00 PM	160	55.3	218	659	7.78
11/28/2009 11:57:00 PM	164	54.6	230	739	7.69
11/29/2009 10:35:00 AM	158	53	188	685	7.61
12/6/2009 1:59:00 PM	190	49.8	222	665	7.66
12/20/2009 9:34:00 AM	192	55.2	232	667	7.67
12/27/2009 12:54:00 PM	160	55.7	218	595	7.74
1/10/2010 10:35:00 PM	162	55.2	226	647	7.68
1/11/2010 10:30:00 AM	159	56.3	212	681	7.64
1/11/2010 11:58:00 PM	156	52.1	220	628	7.55
1/17/2010 9:47:00 AM	160	54.7	224	654	7.94
1/24/2010 11:15:00 AM	132	48.5	78	664	7.64
1/31/2010 11:21:00 AM	216	46.8	234	790	7.71
2/3/2010 9:52:00 AM	178	31.7	226	644	7.8
2/21/2010 11:50:00 AM	164	55.8	228	662	7.74
3/21/2010 1:49:00 PM	168	55.3	224	736	7.66
3/28/2010 12:47:00 PM	174	53.9	202	684	7.56
4/11/2010 2:29:00 PM	160	58.2	200	679	7.89
4/26/2010 6:11:00 PM	156	58	192	692	7.92
5/2/2010 11:04:00 AM	126	48.8	40	701	7.93
5/9/2010 10:11:00 AM	162	51.6	200	699	7.74
6/25/2010 5:26:00 AM	194	33.1	220	803	7.57
6/27/2010 11:01:00 AM	144	58	218	746	7.36
7/13/2010 11:58:00 PM	182	55.4	230	815	7.75
7/27/2010 11:26:00 AM	180	58.2	224	714	7.9
7/27/2010 10:30:00 PM	187	61	267	721	7.83
12/30/2010 10:40:00 PM	170	52.7	220	813	7.1
12/31/2010 9:31:00 PM	200	47.4	232	885	8.09
1/1/2011 5:15:00 PM	200	33.5	208	904	7.3
1/1/2011 9:25:00 PM	190	51.1	230	899	6.93
1/3/2011 11:50:00 PM	170	55.1	230	794	7.02
1/5/2011 9:36:00 PM	160	52.8	220	789	7
1/6/2011 4:38:00 PM	166	54.2	192	790	7.42
1/7/2011 12:11:00 AM	165	53.3	186	778	7.31
1/7/2011 1:03:00 PM	160	53.1	218	776	7.58
1/8/2011 12:12:00 AM	166	52.4	224	758	7.56
1/8/2011 12:53:00 PM	184	52.3	194	814	7.4
1/8/2011 11:41:00 PM	178	52.7	194	815	7.38
1/9/2011 12:35:00 PM	164	55.1	210	774	7.75
1/10/2011 12:09:00 AM	200	51.5	192	767	7.3
1/10/2011 12:37:00 PM	166	49	212	781	7.56
1/10/2011 11:41:00 PM	162	54	214	785	7.3
1/11/2011 12:44:00 PM	174	55.9	220	770	7.53
1/11/2011 11:01:00 PM	178	48.7	220	793	7.93
1/12/2011 10:58:00 PM	176	50.4	208	787	7.85
1/13/2011 12:39:00 PM	160	45.6	168	753	8.25
1/13/2011 11:10:00 PM	166	53.4	210	763	7.48
1/16/2011 11:25:00 AM	200	53.1	234	944	6.95
1/17/2011 5:42:00 AM	200	52.8	240	907	7.42
1/17/2011 11:56:00 AM	206	45.8	234	898	8.06
1/17/2011 11:37:00 PM	206	36.9	246	929	7.51
1/18/2011 11:33:00 AM	180	52	244	789	7.7
1/20/2011 12:32:00 AM	200	50.8	250	929	7.63
1/20/2011 1:00:00 PM	200	54	248	938	7.93
1/21/2011 11:27:00 AM	202	51	248	978	7.89

WALNUT ENERGY CENTER

COMPOSITE GROUND WATER CHEMISTRY RESULTS

Timestamp	Calcium Hardness (CaCo3)	Silica	Alkalinity	Specific Conductivity	Water pH
	ppm	ppm	ppm	unhos	pH
	Value	Value	Value	Value	Value
1/21/2011 11:43:00 PM	204	53	246	982	7.94
1/22/2011 12:01:00 PM	202	50.5	250	981	7.63
2/2/2011 10:51:00 PM	200	31.1	232	773	6.86
2/8/2011 3:30:00 AM	232	550	242	805	7.42
2/8/2011 11:29:00 AM	226	53.4	228	823	7.26
2/9/2011 3:47:00 AM	198	53	236	810	7.46
2/9/2011 11:42:00 AM	200	50.3	244	830	7.5
2/9/2011 11:35:00 PM	208	50.3	246	810	7.5
2/10/2011 12:42:00 PM	200	53.9	244	830	7.66
2/10/2011 11:03:00 PM	190	49.6	230	821	7.04
2/11/2011 1:18:00 PM	200.2	47.2	240	820	7.66
2/26/2011 12:48:00 PM	220	51.7	230	809	8.18
6/21/2011 1:07:00 AM	196	56.4	230	759	7.97
6/21/2011 10:10:00 AM	200	55	226	745	7.6

Well Pump #1

North West Well

Certificate of Analysis

George Davies
Turlock Irrigation District
PO Box 949
Turlock, CA 95381-0949

Report Issue Date: 05/26/2011 9:40
Received Date: 05/12/2011
Received Time: 15:53

Lab Sample ID: A1E0991-02
Sample Date: 05/12/2011 09:00
Sample Type: Grab

Client Project: WEC-RGW March
Sampled by: Client
Matrix: Water

Sample Description: Well #1

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO ₃	SM 2320 B	210	3.0	mg/L	1	A105874	05/18/11	05/18/11	
Bicarbonate as CaCO ₃	SM 2320 B	210	3.0	mg/L	1	A105874	05/18/11	05/18/11	
Carbonate as CaCO ₃	SM 2320 B	ND	3.0	mg/L	1	A105874	05/18/11	05/18/11	
Hydroxide as CaCO ₃	SM 2320 B	ND	3.0	mg/L	1	A105874	05/18/11	05/18/11	
*Ammonia as N	SM 4500-NH ₃ G	ND	0.10	mg/L	1	A105870	05/18/11	05/18/11	
*Biochemical Oxygen Demand	SM 5210 B	ND	5.0	mg/L	1	A105639	05/12/11 19:49	05/17/11 12:17	
Carbon Dioxide, Total	SM 4500-CO ₂ D	190	1.0	mg/L	1	A106138	05/24/11	05/24/11	
*Carbon Dioxide, Free	SM 4500-CO ₂ D	3.0	1.0	mg/L	1	A106138	05/24/11	05/24/11	
*Chemical Oxygen Demand	SM 5220 D	5.6	3.0	mg/L	1	A105731	05/16/11	05/16/11	
*Color	SM 2120 B	ND	1.0	Color Units	1	A105632	05/12/11 19:08	05/12/11 19:08	
*Threshold Odor	SM 2150 B	1.0	1.0	T.O.N.	1	A105632	05/12/11 19:08	05/12/11 19:08	
pH (1)	SM 4500-H+ B	8.1		pH Units	1	A105673	05/13/11	05/13/11	
pH Temperature in °C		21.7							
*Settleable Solids	SM 2540 F	ND	0.10	mL/L/hr	1	A105669	05/13/11 10:10	05/13/11 10:10	
Total Dissolved Solids	SM 2540C	500	5.0	mg/L	1	A105653	05/13/11	05/17/11	
Total Organic Carbon	SM 5310 C	1.3	0.20	mg/L	1	A105833	05/17/11	05/17/11	
*Total Suspended Solids	SM 2540D	ND	5.0	mg/L	1	A105659	05/13/11	05/17/11	
Turbidity	SM 2130 B	ND	0.10	NTU	1	A105632	05/12/11 19:08	05/12/11 19:08	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Barium	EPA 200.7	0.17	0.050	mg/L	1	A106099	05/23/11	05/23/11	
Iron	EPA 200.7	ND	0.050	mg/L	1	A106099	05/23/11	05/23/11	
Manganese	EPA 200.7	ND	0.010	mg/L	1	A106099	05/23/11	05/23/11	
Silica (SiO ₂)	EPA 200.7	61	0.20	mg/L	1	A106099	05/23/11	05/23/11	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Qual
Coliform, Presence/Absence by Colilert							
*E. Coli	SM 9223	Absent	0.900	MPN/100 mL	A105644	05/12/11 17:33	
Total Coliform	SM 9223	Absent	0.900	MPN/100 mL	A105644	05/12/11 17:33	

A1E0991 FINAL 05262011 0940

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1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6B1515

Project: Walnut Energy Center

Date: 02/24/06

Turlock Irrigation District
P.O. Box 949
Turlock, CA 95381

PO#

Date Rec'd: 02/15/06

CERTIFICATE OF ANALYSIS

Sample ID: Northwest Well #1

Date Sampled: 02/15/06

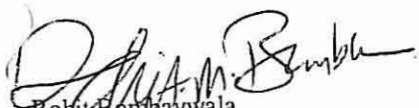
Lab ID: S6B1515-01

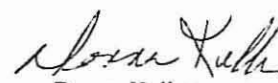
Time: 14:00

Inorganic Chemistry

Sampler: Joel Toledo

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
300.0	1.0	Nitrate as NO3	47	mg/L		02/16/06	S000606


Rohit Bhatnagar
Chemist


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Port # S6B1515

Project: Walnut Energy Center

Date: 02/24/06

Turlock Irrigation District

Date Rec'd: 02/15/06

P.O. Box 949

PO#

Turlock, CA 95381

CERTIFICATE OF ANALYSIS

Sample ID: Northwest Well #1

Date Sampled: 02/15/06

Lab ID: S6B1515-01

Time: 14:00

Inorganic Chemistry

Sampler: Joel Toledo

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
200.7	1.0	Calcium	53	mg/L		02/16/06	S000616
	1.0	Magnesium	14				
	1.0	Sodium	45				
	1.0	Potassium	2.9				
	1.0	Hardness as CaCO ₃	190				
SM2320B	20.0	Total Alkalinity as CaCO ₃	208			02/16/06	S000545
	20.0	Bicarbonate Alkalinity as CaCO ₃	208				
	20.0	Carbonate Alkalinity as CaCO ₃	ND				
	20.0	Hydroxide Alkalinity as CaCO ₃	ND				
300.0	1.00	Chloride	16.0			02/16/06	S000606
	1.00	Sulfate as SO ₄	29.0				
SM2510B	1.00	Specific Conductance (EC)	580	umhos/cm		02/16/06	S000557
40C	0.25	Methylene Blue Active Substances (MBAS)	ND	mg/L		02/15/06	S000518
150.1	NA	pH	7.2	Std. Units		02/15/06	S000591
160.1	10	Total Dissolved Solids (TDS)	370	mg/L		02/17/06	S000569
200.7	50.0	Copper	ND	ug/L		02/22/06	S000667
	100	Iron	ND				
	20.0	Manganese	79.0				
	50.0	Zinc	ND				



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Re: # S6D2508

Turlock Irrigation District
P.O. Box 949
Turlock, CA 95381

Project: Walnut Energy Center

PO#:

Date: 05/08/06

Date Rec'd: 04/25/06

CERTIFICATE OF ANALYSIS

Sample ID: WEC-Northwest Well #1

Lab ID: S6D2508-01

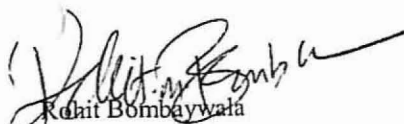
Inorganic Chemistry


Date Sampled: 04/25/06

Time: 10:20

Sampler:

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
350.2	1.00	Ammonia as N	ND	mg/L		04/26/06	S001406
SM4500CO2	1.00	Carbon Dioxide	9.70	mg/L		04/25/06	S001398
410.4	20	Chemical Oxygen Demand	ND	mg/L		04/28/06	S001458
SM2150B	5	Color	ND	Color Units		04/25/06	S001393
140.1	1	Odor	ND	T.O.N.		04/25/06	S001394
160.5	0.5	Settleable Matter	ND	mg/L/hr		04/25/06	S001397
200.7	2.00	Silica (SiO2)	55.0	mg/L		05/05/06	S001528
415.1	1.0	Total Organic Carbon	ND	mg/L		04/25/06	S001382
160.2	10	Total Suspended Solids	ND	mg/L		04/25/06	S001396
180.1	0.1	Turbidity	0.3	NTU		04/25/06	S001395
300.0	1.0	Nitrate as NO3	56.0	mg/L		04/25/06	S001388


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Re: # S6D2508

Project: Walnut Energy Center

Date: 05/08/06

Turlock Irrigation District

Date Rec'd: 04/25/06

P.O. Box 949

PO#:

Turlock, CA 95381

CERTIFICATE OF ANALYSIS

Sample ID: WEC-Northwest Well #1

Date Sampled: 04/25/06

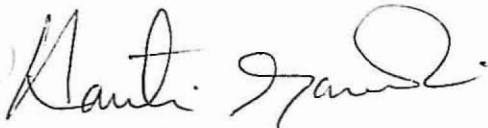
Lab ID: S6D2508-01

Time: 10:20

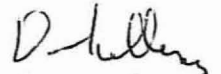
Inorganic Chemistry

Sampler:

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
200.7	1.0	Calcium	60	mg/L		05/03/06	S001490
	1.0	Magnesium	16	mg/L			
	1.0	Sodium	42	mg/L			
	1.0	Potassium	2.7	mg/L			
	1.0	Hardness as CaCO ₃	220	mg/L			
SM2320B	20	Total Alkalinity as CaCO ₃	210	mg/L		04/28/06	S001452
	20	Bicarbonate Alkalinity as CaCO ₃	210	mg/L			
	20	Carbonate Alkalinity as CaCO ₃	ND	mg/L			
	20	Hydroxide Alkalinity as CaCO ₃	ND	mg/L			
300.0	1.0	Chloride	16.0	mg/L		04/25/06	S001388
	1.0	Sulfate as SO ₄	24.0	mg/L			
SM2510B	1.0	Specific Conductance (EC)	575	umhos/cm		04/25/06	S001399
SM	0.25	Methylene Blue Active Substances (MBAS)	ND	mg/L		04/27/06	S001448
150..	NA	pH	7.3	Std. Units		04/25/06	S001430
160.1	10	Total Dissolved Solids (TDS)	390	mg/L		04/25/06	S001385
200.7	50	Copper	ND	ug/L		05/03/06	S001496
	100	Iron	ND	ug/L			
	20	Manganese	100	ug/L			
	50	Zinc	ND	ug/L			



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

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Re: # S6D2508

Turlock Irrigation District

P.O. Box 949

Turlock, CA 95381

Project: Walnut Energy Center

PO#

Date: 05/01/06

Date Rec'd: 04/25/06

Certificate of Analysis

Sample ID: WEC-Northwest Well #1

Lab ID: S6D2508-01

Microbiology of Drinking Water

Date Sampled: 04/25/06

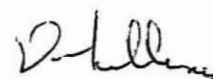
Time: 10:20

Sampler:

Method	RL	Analyte	Result	Units	Analyzed	Batch #
SM9223		Total Coliform	Present	MPN/mL	04/26/06	S001438
		Fecal Coliform	Absent			



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

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Ref # S6D2508

Turlock Irrigation District

P.O. Box 949

Turlock, CA 95381

Project: Walnut Energy Center

PO#

Date: 05/01/06

Date Rec'd: 04/25/06

Certificate of Analysis

Sample ID: WEC-Northwest Well #1

Lab ID: S6D2508-01

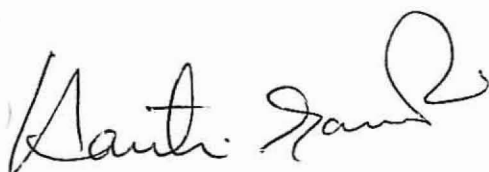
Microbiology of Wastewater

Date Sampled: 04/25/06

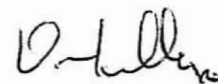
Time: 10:20

Sampler:

Method	RL	Analyte	Result	Units	Analyzed	Batch #
SM5210B	2	Biochemical Oxygen Demand	ND	mg/L	04/26/06	S001422



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900

Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # R270-15

Date: 9/29/05

Turlock Irrigation District

Project: Walnut Energy Center

P.O. Box 949

Date Rec'd: 9/27/05

Date Started: 9/28/05

Turlock

CA 95381

PO#

Date Completed: 9/28/05

Date Sampled: 9/27/05

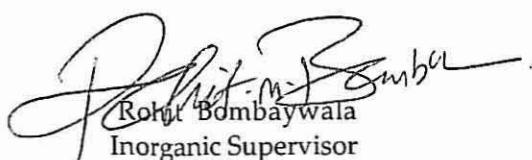
Time: 1:00 pm

Sampler: George Davies

Sample ID: North Well ²²/

Lab ID: R306165

Method	RL	Analyte	Results	Units
300.0	2.0	Nitrate (as NO3)	34	mg/L


Rohit Bombaywala
Inorganic Supervisor

Certification # 2585


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900

Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # R297-09

Date: 11/03/05

Turlock Irrigation District

Project: Walnut Energy Center

P.O. Box 949

Date Rec'd: 10/24/05

Date Started: 10/24/05

Turlock

CA 95381

PO#

Date Completed: 10/31/05

Date Sampled: 10/24/05

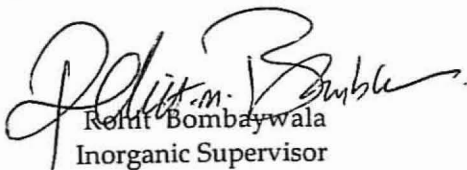
Time: 12:30 pm

Sampler: Joel Toledo

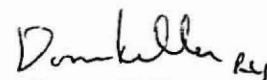
Sample ID: WEC Well # /

Lab ID: R306764

Method	RL	Analyte	Results	Units
200.7	1.0	Calcium	69	mg/L
200.7	1.0	Magnesium	21	mg/L
200.7	1.0	Sodium	50	mg/L
200.7	1.0	Potassium	2.7	mg/L
SM2340B	1.0	Hardness as CaCO ₃	259	mg/L
SM2320B	20	Total Alkalinity (as CaCO ₃)	260	mg/L
SM2320B	20	Carbonate Alkalinity	ND	mg/L
SM2320B	20	Bicarbonate Alkalinity	260	mg/L
SM2320B	20	Hydroxide Alkalinity	ND	mg/L
300.0	1.0	Sulfate	25	mg/L
300.0	1.0	Chloride	15	mg/L
SM5540C	0.25	MBAS	ND	mg/L
200.7	100	Iron	ND	µg/L
200.7	50	Copper	ND	µg/L
200.7	50	Zinc	ND	µg/L
200.7	20	Manganese	ND	µg/L
160.1	10	Total Filterable Residue (TDS)	467	mg/L
150.1	NA	pH	7.2	Std. Units
SM2510B	1.0	Specific Conductance (EC)	738	µmhos/cm
300.0	2.0	Nitrate (as NO ₃)	73	mg/L


Rohit Bombaywala
Inorganic Supervisor

Certification # 2585


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # R297-09

Date: 11/03/05

Turlock Irrigation District
P.O. Box 949
Turlock CA 95381

Project: Walnut Energy Center

PO#


Date Rec'd: 10/24/05
Date Started: 10/24/05
Date Completed: 11/02/05

Date Sampled: 10/24/05
Time: 12:30 pm
Sampler: Joel Toledo


Sample ID: WEC Well #1

Lab ID: R306764

Method	RL	Analyte	Results	Units
140.1	1	Odor	ND	T.O.N.
SM2120B	5	Color	ND	CU(apparent color)
180.1	0.1	Turbidity	0.3	NTU
160.2	10	Nonfilterable Residue (TSS)	ND	mg/L
160.5	0.5	Settleable Matter	ND	ml/L/hr
200.7	2.0	Silica as SiO ₂	56	mg/L
SM5310C	0.30	Total Organic Carbon	1.8	mg/L
350.2	1.0	Ammonia-N	ND	mg/L
SM4500CO ₂	1.0	Carbon Dioxide	11	mg/L
410.4	20	Chemical Oxygen Demand	ND	mg/L
200.7	0.10	Barium	0.13	mg/L


Rohit Bombaywala
Inorganic Supervisor

Certification # 2585


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # R297-09

Date: 11/01/05

Turlock Irrigation District
P.O. Box 949
Turlock CA 95381

Project: Walnut Energy Center
PO#

Date Rec'd: 10/24/05
Date Started: 10/24/05
Date Completed: 10/31/05

Date Sampled: 10/24/05
Time: 12:30 pm
Sampler: Joel Toledo

Sample ID: WEC Well #/

Lab ID: R306764

Method	RL	Analyte	Results	Units
SM5210B	2.0	B.O.D	ND	mg/L



Kanti Gandhi
Chemist

Certification # 2585



Donna Keller
Laboratory Director

Well Pump #2

North East Well

Certificate of Analysis

George Davies
Turlock Irrigation District
PO Box 949
Turlock, CA 95381-0949

Report Issue Date: 05/26/2011 9:40
Received Date: 05/12/2011
Received Time: 15:53

Lab Sample ID: A1E0991-03
Sample Date: 05/12/2011 09:00
Sample Type: Grab

Client Project: WEC-RGW March
Sampled by: Client
Matrix: Water

Sample Description: Well #2

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO ₃	SM 2320 B	230	3.0	mg/L	1	A105874	05/18/11	05/18/11	
Bicarbonate as CaCO ₃	SM 2320 B	230	3.0	mg/L	1	A105874	05/18/11	05/18/11	
Carbonate as CaCO ₃	SM 2320 B	ND	3.0	mg/L	1	A105874	05/18/11	05/18/11	
Hydroxide as CaCO ₃	SM 2320 B	ND	3.0	mg/L	1	A105874	05/18/11	05/18/11	
*Ammonia as N	SM 4500-NH ₃ G	ND	0.10	mg/L	1	A105870	05/18/11	05/18/11	
*Biochemical Oxygen Demand	SM 5210 B	ND	5.0	mg/L	1	A105639	05/12/11 19:50	05/17/11 12:18	
*Carbon Dioxide, Total	SM 4500-CO ₂ D	200	1.0	mg/L	1	A106138	05/24/11	05/24/11	
*Carbon Dioxide, Free	SM 4500-CO ₂ D	3.6	1.0	mg/L	1	A106138	05/24/11	05/24/11	
*Chemical Oxygen Demand	SM 5220 D	6.5	3.0	mg/L	1	A105731	05/16/11	05/16/11	
*Color	SM 2120 B	ND	1.0	Color Units	1	A105632	05/12/11 19:10	05/12/11 19:10	
*Threshold Odor	SM 2150 B	1.0	1.0	T.O.N.	1	A105632	05/12/11 19:10	05/12/11 19:10	
pH (1)	SM 4500-H+ B	8.1		pH Units	1	A105674	05/13/11	05/13/11	
pH Temperature in °C		21.8							
*Settleable Solids	SM 2540 F	ND	0.10	mL/L/hr	1	A105669	05/13/11 10:10	05/13/11 10:10	
Total Dissolved Solids	SM 2540C	480	5.0	mg/L	1	A105653	05/13/11	05/17/11	
Total Organic Carbon	SM 5310 C	1.6	0.20	mg/L	1	A105833	05/17/11	05/17/11	
*Total Suspended Solids	SM 2540D	ND	5.0	mg/L	1	A105659	05/13/11	05/17/11	
Turbidity	SM 2130 B	0.14	0.10	NTU	1	A105632	05/12/11 19:10	05/12/11 19:10	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Barium	EPA 200.7	0.17	0.050	mg/L	1	A106099	05/23/11	05/23/11	
Iron	EPA 200.7	ND	0.050	mg/L	1	A106099	05/23/11	05/23/11	
Manganese	EPA 200.7	ND	0.010	mg/L	1	A106099	05/23/11	05/23/11	
Silica (SiO ₂)	EPA 200.7	57	0.20	mg/L	1	A106099	05/23/11	05/23/11	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Qual
Coliform, Presence/Absence by Colilert							
*E. Coli	SM 9223	Absent	0.900	MPN/100 mL	A105644	05/12/11 17:33	
Total Coliform	SM 9223	Absent	0.900	MPN/100 mL	A105644	05/12/11 17:33	

A1E0991 FINAL 05262011 0940

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CERTIFICATE OF ANALYSIS

Report # R195-05

Date: 7/20/05

Turlock Irrigation District

Project: Walnut Energy Center

P.O. Box 949

Date Rec'd: 7/14/05

Date Started: 7/19/05

Turlock

CA 95381

PO#

Date Completed: 7/20/05

Date Sampled: 7/14/05

Time: 1:00pm

Sampler:

Sample ID: WEC - Well #2

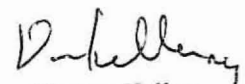
Lab ID: R304570

Method	RL	Analyte	Results	Units
200.8	6.0	Antimony	ND	µg/L
200.8	2.0	Arsenic	5.4	µg/L
200.8	100	Barium	162	µg/L
200.8	1.0	Beryllium	ND	µg/L
200.8	1.0	Cadmium	ND	µg/L
200.8	1.0	Chromium	11	µg/L
200.8	50	Cobalt	ND	µg/L
200.8	50	Copper	ND	µg/L
200.8	5.0	Lead	ND	µg/L
200.8	1.0	Mercury	ND	µg/L
200.8	20	Molybdenum	ND	µg/L
200.8	10	Nickel	ND	µg/L
200.8	5	Selenium	ND	µg/L
200.8	10	Silver	ND	µg/L
200.8	1.0	Thallium	ND	µg/L
200.8	3.0	Vanadium	22	µg/L
200.8	50	Zinc	ND	µg/L



Kanti Gandhi
Chemist

Certification # 2585



Donna Keller
Laboratory Director

**J L ANALYTICAL SERVICES, INC.**

217 Primo Way • Modesto, California 95358 • Office (209) 538-8111 • FAX (209) 538-3966

Date: 07/27/05

Sample Description:

Water, TID Well #2, 7-13-05, 110

Calwater Drilling Co, Inc
300 South Kilroy
Turlock, CA 95380

Submitted By:

Laboratory Number: 0507-01883

Results of Analysis:

As Received

Bicarb Alk. (as CaCO ₃)	SM2320B	210	mg/l
Carb Alk. (as CaCO ₃)	SM2320B	<1	mg/l
Hydrox Alk. (as CaCO ₃)	SM2320B	<1	mg/l
Calcium	EPA 200.7	81	mg/l
Chloride	EPA 300.0	20	mg/l
Electric. Conductivity	SM2510B	740	umho/cm*
Iron	EPA 200.7	0.04	mg/l
Magnesium	EPA 200.7	26	mg/l
Manganese	EPA 200.7	0.03	mg/l
pH	EPA 150.1	7.7	
Sodium	EPA 200.7	45	mg/l
Sulfate	EPA 300.0	36	mg/l
Total Diss. Solids	EPA 160.1	520	mg/l
Total Hardness	EPA 200.7	310	mg/l
Potassium	EPA 200.7	3	mg/l
Nitrate	EPA 300.0	95	mg/l
Fluoride	EPA 300.0	<0.1	mg/l
Silica	EPA 200.7	56	mg/l

* At 25 Degrees C

**JL ANALYTICAL SERVICES, INC.**

217 Primo Way • Modesto, California 95358 • Office (209) 538-8111 • FAX (209) 538-3966

Date: 07/27/05

Sample Description:

Water, TID Well #2, 7-13-05, 110

Calwater Drilling Co, Inc
300 South Kilroy
Turlock, CA 95380

Submitted By:

Laboratory Number: 0507-01883

Results of Analysis:

As Received

Barium	EPA 200.7	170	ug/liter
Ammonia	Epa 350.3	<1	mg/l
Turbidity, Sm2130b		0.9	NTU
Color	SM2120B	3	CU
Total Solids	SM 2540	550	mg/l
Total Organic Carbon	EPA 415.1	2.2	mg/l
COD	EPA 410.4	<20	mg/l
BOD	SM5210B	<2	mg/l
Total Coliform	SM9221B	7	/100ml
Fecal Coliform	SM9221E	<2	/100ml

* At 25 Degrees C

Respectfully Submitted,

Michael Wolf, Director

Well Pump # 3

South Well

Certificate of Analysis

Report Issue Date: 05/26/2011 9:40
Received Date: 05/12/2011
Received Time: 15:53

George Davies
Turlock Irrigation District
PO Box 949
Turlock, CA 95381-0949

Lab Sample ID: A1E0991-04
Sample Date: 05/12/2011 09:00
Sample Type: Grab

Client Project: WEC-RGW March
Sampled by: Client
Matrix: Water

Sample Description: Well #3

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Alkalinity as CaCO ₃	SM 2320 B	240	3.0	mg/L	1	A105874	05/18/11	05/18/11	
Bicarbonate as CaCO ₃	SM 2320 B	240	3.0	mg/L	1	A105874	05/18/11	05/18/11	
Carbonate as CaCO ₃	SM 2320 B	ND	3.0	mg/L	1	A105874	05/18/11	05/18/11	
Hydroxide as CaCO ₃	SM 2320 B	ND	3.0	mg/L	1	A105874	05/18/11	05/18/11	
*Ammonia as N	SM 4500-NH ₃ G	ND	0.10	mg/L	1	A105870	05/18/11	05/18/11	
*Biochemical Oxygen Demand	SM 5210 B	ND	5.0	mg/L	1	A105690	05/13/11 14:44	05/18/11 13:07	
Carbon Dioxide, Total	SM 4500-CO ₂ D	210	1.0	mg/L	1	A105138	05/24/11	05/24/11	
*Carbon Dioxide, Free	SM 4500-CO ₂ D	3.3	1.0	mg/L	1	A105138	05/24/11	05/24/11	
*Chemical Oxygen Demand	SM 5220 D	ND	3.0	mg/L	1	A105731	05/16/11	05/16/11	
*Color	SM 2120 B	ND	1.0	Color Units	1	A105632	05/12/11 19:12	05/12/11 19:12	
*Threshold Odor	SM 2150 B	1.0	1.0	T.O.N.	1	A105632	05/12/11 19:12	05/12/11 19:12	
pH (1)	SM 4500-H+ B	8.2		pH Units	1	A105674	05/13/11	05/13/11	
pH Temperature in °C		21.7							
*Settleable Solids	SM 2540 F	ND	0.10	mL/L/hr	1	A105669	05/13/11 10:10	05/13/11 10:10	
Total Dissolved Solids	SM 2540C	590	5.0	mg/L	1	A105653	05/13/11	05/17/11	
Total Organic Carbon	SM 5310 C	1.4	0.20	mg/L	1	A105833	05/18/11	05/18/11	
*Total Suspended Solids	SM 2540D	5.0	5.0	mg/L	1	A105659	05/13/11	05/17/11	
Turbidity	SM 2130 B	1.1	0.10	NTU	1	A105632	05/12/11 19:12	05/12/11 19:12	

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Barium	EPA 200.7	0.24	0.050	mg/L	1	A106099	05/23/11	05/23/11	
Iron	EPA 200.7	0.27	0.050	mg/L	1	A106099	05/23/11	05/23/11	
Manganese	EPA 200.7	ND	0.010	mg/L	1	A106099	05/23/11	05/23/11	
Silica (SiO ₂)	EPA 200.7	62	0.20	mg/L	1	A106099	05/23/11	05/23/11	

Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Qual
Coliform, Presence/Absence by Colilert							
*E. Coli	SM 9223	Absent	0.900	MPN/100 mL	A105644	05/12/11 17:33	
Total Coliform	SM 9223	Absent	0.900	MPN/100 mL	A105644	05/12/11 17:33	

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Account # S6A2414

Turlock Irrigation District
P.O. Box 949
Turlock, CA 95381

Project: Walnut Energy Center

PO#

Date: 02/13/06

Date Rec'd: 01/24/06

CERTIFICATE OF ANALYSIS

Sample ID: WEC Well South #3

Lab ID: S6A2414-01


Inorganic Chemistry


Date Sampled: 01/24/06

Time: 14:45

Sampler: Joel Toledo

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
350.2	1.00	Ammonia as N	ND	mg/L		01/30/06	S000355
SM4500CO2	1.00	Carbon Dioxide	5.70			01/25/06	S000304
410.4	20	Chemical Oxygen Demand	ND			01/24/06	S000243
SM2150B	5	Color	ND	Color Units		01/25/06	S000288
140.1	1	Odor	ND	T.O.N.		01/25/06	S000289
200.7	2.00	Silica (SiO2)	58.3	mg/L		01/27/06	S000353
415.1	0.30	Total Organic Carbon	ND			01/31/06	S000357
160.2	10	Total Suspended Solids	ND			01/25/06	S000321
180.1	0.1	Turbidity	0.1	NTU		01/25/06	S000290
160.5	0.5	Settleable Matter	ND	mg/L/hr		01/25/06	S000292
300.0	2.0	Nitrate as NO3	58.0	mg/L		01/24/06	S000282


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Account # S6A2414

Project: Walnut Energy Center

Date: 02/03/06

Turlock Irrigation District

Date Rec'd: 01/24/06

P.O. Box 949

PO#

Turlock, CA 95381

Certificate of Analysis

Sample ID: WEC Well South 43

Date Sampled: 01/24/06

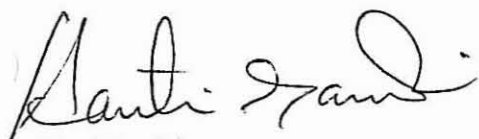
Lab ID: S6A2414-01

Time: 14:45

Microbiology of Wastewater

Sampler: Joel Toledo

Method	RL	Analyte	Result	Units	Analyzed	Batch #
SM5210B	2	Biochemical Oxygen Demand	ND	mg/L	01/25/06	S000293



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6A2414

Turlock Irrigation District
P.O. Box 949
Turlock, CA 95381

Project: Walnut Energy Center

PO#

Date: 02/13/06

Date Rec'd: 01/24/06

CERTIFICATE OF ANALYSIS

Sample ID: WEC Well South #3

Lab ID: S6A2414-01

Inorganic Chemistry

Date Sampled: 01/24/06

Time: 14:45

Sampler: Joel Toledo

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
200.7	1.0	Calcium	59	mg/L		01/26/06	S000325
	1.0	Magnesium	19				
	1.0	Sodium	49				
	1.0	Potassium	7.3				
	1.0	Hardness as CaCO ₃	230				
SM2320B	20.0	Total Alkalinity as CaCO ₃	221			01/26/06	S000309
	20.0	Bicarbonate Alkalinity as CaCO ₃	221				
	20.0	Carbonate Alkalinity as CaCO ₃	ND				
	20.0	Hydroxide Alkalinity as CaCO ₃	ND				
300.0	1.00	Chloride	30.0			01/24/06	S000282
	0.50	Sulfate as SO ₄	32.0				
120.1	1.0	Specific Conductance (EC)	691	umhos/cm		01/25/06	S000283
S OC	0.25	Methylene Blue Active Substances (MBAS)	0.59	mg/L		01/25/06	S000284
150.1	NA	pH	7.6	Std. Units		01/24/06	S000358
160.1	10	Total Dissolved Solids (TDS)	450	mg/L		01/25/06	S000319
200.7	50.0	Copper	ND	ug/L		01/24/06	S000333
	100	Iron	ND				
	20.0	Manganese	ND				
	50.0	Zinc	ND				



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

R t# S6A2414

Turlock Irrigation District
P.O. Box 949
Turlock, CA 95381

Project: Walnut Energy Center

PO#

Date: 02/03/06

Date Rec'd: 01/24/06

Certificate of Analysis

Sample ID: WEC Well South #3

Lab ID: S6A2414-01

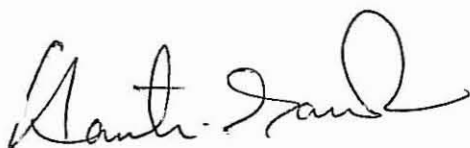
Microbiology of Drinking Water

Date Sampled: 01/24/06

Time: 14:45

Sampler: Joel Toledo

Method	RL	Analyte	Result	Units	Analyzed	Batch #
SM9221B, E, C		Total Coliform	Absent	MPN/mL	01/24/06	S000269



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Re: # S6D2511

Turlock Irrigation District
P.O. Box 949
Turlock, CA 95381

Project: Almond Power Plant

PO#:

Date: 05/08/06

Date Rec'd: 04/25/06

CERTIFICATE OF ANALYSIS

Sample ID: WEC Well South #3

Lab ID: S6D2511-01


Inorganic Chemistry


Date Sampled: 04/25/06

Time: 10:35

Sampler: Joel Toledo

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
350.2	1.00	Ammonia as N	ND	mg/L		04/26/06	S001406
SM4500CO2	1.00	Carbon Dioxide	7.50	mg/L		04/25/06	S001398
410.4	20	Chemical Oxygen Demand	ND	mg/L		04/28/06	S001458
SM2150B	5	Color	5	Color Units		04/25/06	S001393
140.1	1	Odor	ND	T.O.N.		04/25/06	S001394
160.5	0.5	Settleable Matter	ND	mg/L/hr		04/25/06	S001397
200.7	2.00	Silica (SiO2)	58.0	mg/L		05/05/06	S001528
415.1	1.0	Total Organic Carbon	1.0	mg/L		04/25/06	S001382
160.2	10	Total Suspended Solids	20	mg/L		04/25/06	S001396
180.1	0.1	Turbidity	1.9	NTU		04/25/06	S001395
300.0	1.0	Nitrate as NO3	11.0	mg/L		04/25/06	S001388


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Ref # S6D2511

Project: Almond Power Plant

Date: 05/08/06

Turlock Irrigation District

Date Rec'd: 04/25/06

P.O. Box 949

PO#:

Turlock, CA 95381

CERTIFICATE OF ANALYSIS

Sample ID: WEC Well South #3

Date Sampled: 04/25/06

Lab ID: S6D2511-01

Time: 10:35

Inorganic Chemistry

Sampler: Joel Toledo

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
200.7	1.0	Calcium	61	mg/L		05/03/06	S001490
	1.0	Magnesium	19	mg/L			
	1.0	Sodium	45	mg/L			
	1.0	Potassium	2.5	mg/L			
	1.0	Hardness as CaCO ₃	230	mg/L			
SM2320B	20	Total Alkalinity as CaCO ₃	200	mg/L		04/28/06	S001452
	20	Bicarbonate Alkalinity as CaCO ₃	200	mg/L			
	20	Carbonate Alkalinity as CaCO ₃	ND	mg/L			
	20	Hydroxide Alkalinity as CaCO ₃	ND	mg/L			
300.0	1.0	Chloride	5.3	mg/L		04/25/06	S001388
	1.0	Sulfate as SO ₄	6.1	mg/L			
SM2510B	1.0	Specific Conductance (EC)	621	umhos/cm		04/25/06	S001399
SM ^e	0.25	Methylene Blue Active Substances (MBAS)	ND	mg/L		04/27/06	S001448
150.	NA	pH	7.6	Std. Units		04/25/06	S001430
160.1	10	Total Dissolved Solids (TDS)	430	mg/L		04/25/06	S001385
200.7	50	Copper	ND	ug/L		05/03/06	S001496
	100	Iron	ND	ug/L			
	20	Manganese	ND	ug/L			
	50	Zinc	ND	ug/L			



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Re. # S6D2511

Project: Almond Power Plant

Date: 05/01/06

Turlock Irrigation District

Date Rec'd: 04/25/06

P.O. Box 949

PO#

Turlock, CA 95381

Certificate of Analysis

Sample ID: WEC Well South #3

Date Sampled: 04/25/06

Lab ID: S6D2511-01

Time: 10:35

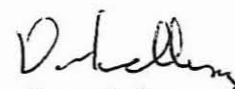
Microbiology of Drinking Water

Sampler: Joel Toledo

Method	RL	Analyte	Result	Units	Analyzed	Batch #
SM9223		Total Coliform	Present	MPN/mL	04/26/06	S001438
		Fecal Coliform	Absent			



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Re. # S6D2511

Turlock Irrigation District
P.O. Box 949
Turlock, CA 95381

Project: Almond Power Plant

PO#

Date: 05/01/06

Date Rec'd: 04/25/06

Certificate of Analysis

Sample ID: WEC Well South #3

Lab ID: S6D2511-01

Microbiology of Wastewater

Date Sampled: 04/25/06

Time: 10:35

Sampler: Joel Toledo

Method	RL	Analyte	Result	Units	Analyzed	Batch #
SM5210B	2	Biochemical Oxygen Demand	ND	mg/L	04/26/06	S001422



Kanti Gandhi
Chemist



Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900

Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report #R256-02

Date: 9/16/05

Turlock Irrigation District

Project Walnut Energy Center

P.O. Box 949

Date Rec'd: 9/13/05

Date Started: 9/13/05

Turlock

CA 95381

PO#

Date Completed: 9/15/05

Date Sampled: 9/13/05

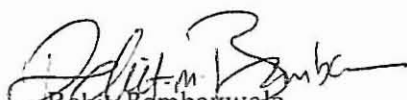
Time: 9:40 am

Sampler: Joel Toledo

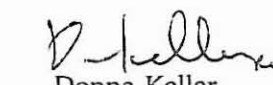
Sample IDWEC Well # 3

Lab ID: R305870

Method	RL	Analyte	Results	Units
200.7	1.0	Calcium	52	mg/L
200.7	1.0	Magnesium	17	mg/L
200.7	1.0	Sodium	44	mg/L
200.7	1.0	Potassium	1.8	mg/L
SM2340B	1.0	Hardness as CaCO ₃	200	mg/L
SM2320B	20	Total Alkalinity (as CaCO ₃)	193	mg/L
SM2320B	20	Carbonate Alkalinity	ND	mg/L
SM2320B	20	Bicarbonate Alkalinity	193	mg/L
SM2320B	20	Hydroxide Alkalinity	ND	mg/L
300.0	1.0	Sulfate	28	mg/L
300.0	1.0	Chloride	27	mg/L
SM5540C	0.25	MBAS	0.31	mg/L
200.7	100	Iron	160	µg/L
200.7	50	Copper	ND	µg/L
200.7	50	Zinc	ND	µg/L
200.7	20	Manganese	ND	µg/L
160.1	10	Total Filterable Residue (TDS)	408	mg/L
150.1	NA	pH	7.6	Std. Units
SM2510B	1.0	Specific Conductance (EC)	613	µmhos/cm
300.0	2.0	Nitrate (as NO ₃)	51	mg/L


Rohit Bombaywala
Inorganic Supervisor

Certification # 2585


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900

Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report #R256-02

Date: 9/16/05

Turlock Irrigation District

Project Walnut Energy Center

P.O. Box 949

Date Rec'd: 9/13/05

Date Started: 9/13/05

Turlock

CA 95381

PO#

Date Completed: 9/16/05

Date Sampled: 8/30/05

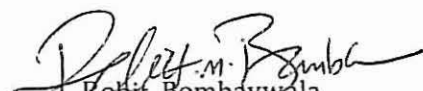
Time: 10:30 am

Sampler: Joel Toledo


Sample IDWEC Well #3

Lab ID: R305870

Method	RL	Analyte	Results	Units
140.1	1	Odor	ND	T.O.N.
SM2120B	5	Color	ND	CU(apparent color)
180.1	0.1	Turbidity	1.4	NTU
160.2	10	Nonfilterable Residue (TSS)	ND	mg/L
160.5	0.5	Settleable Matter	ND	ml/L/hr
200.7	2.0	Silica as SiO ₂	66	mg/L
SM5310C	0.30	Total Organic Carbon	0.9	mg/L
350.2	1.0	Ammonia-N	ND	mg/L
SM4500CO ₂	1.0	Carbon Dioxide	ND	mg/L
410.4	20	Chemical Oxygen Demand	ND	mg/L


Rohit Bombaywala
Inorganic Supervisor

Certification # 2585


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900

Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # R256-02

Date: 9/19/05

Turlock Irrigation District

Project: Walnut Energy Center

P.O. Box 949

Date Rec'd: 9/13/05

Date Started: 9/14/05

Turlock

CA 95381

PO#

Date Completed: 9/19/05

Date Sampled: 8/30/05

Time: 10:30 am

Sampler: Joel Toledo

Sample ID: WEC Well # 3

Lab ID: R305870

Method	RL	Analyte	Results	Units
SM5210B	2.0	B.O.D	1.8	mg/L

pH 7.6 Adj 7.5



Kanti Gandhi
Chemist

Certification # 2585



Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900

Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # R256-02

Date: 9/19/05

Turlock Irrigation District

Project: Walnut Energy Center

P.O. Box 949

Date Rec'd: 9/13/05

Date Started: 9/13/05

Turlock

CA 95381

PO#

Date Completed: 9/15/05

Date Sampled: 8/30/05

Time: 10:30 am

Sampler: Joel Toledo

Sample ID: WEC Well # 3

Lab ID: R305870

Method	RL	Analyte	Results	Units
SM9221B		Total Coliform	Present	MPN/100ml
SM9221E		Fecal Coliform	Absent	MPN/100ml



Kanti Gandhi
Chemist

Certification # 2585



Donna Keller
Laboratory Director



JL ANALYTICAL SERVICES, INC.

217 Primo Way • Modesto, California 95358 • Office (209) 538-8111 • FAX (209) 538-3966

Date: 05/27/05

Sample Description:

Water, TID Well, 5-17-05, 1015

South of Cooling Tower Well #3

Calwater Drilling Co, Inc
300 South Kilroy
Turlock, CA 95380

Submitted By:

Laboratory Number: 0505-01681

Results of Analysis:

As Received

Bicarb Alk. (as CaCO ₃)	SM2320B	160	mg/l
Carb Alk. (as CaCO ₃)	SM2320B	<1	mg/l
Hydrox Alk. (as CaCO ₃)	SM2320B	<1	mg/l
Calcium	EPA 200.7	55	mg/l
Chloride	EPA 300.0	28	mg/l
Electric. Conductivity	SM2510B	590	umho/cm*
Iron	EPA 200.7	0.02	mg/l
Magnesium	EPA 200.7	17	mg/l
Manganese	EPA 200.7	0.02	mg/l
pH	EPA 150.1	7.9	
Sodium	EPA 200.7	47	mg/l
Sulfate	EPA 300.0	29	mg/l
Total Diss. Solids	EPA 160.1	410	mg/l
Total Hardness	EPA 200.7	210	mg/l
Potassium	EPA 200.7	2	mg/l
Nitrate	EPA 300.0	56	mg/l
Fluoride	EPA 300.0	<0.1	mg/l
Silica	EPA 200.7	64	mg/l

* At 25 Degrees C



217 Primo Way • Modesto, California 95358 • Office (209) 538-8111 • FAX (209) 538-3966

Well #3

Barium	EPA 200.7	150	ug/liter
Ammonia	Epa 350.3	<1	mg/l
Turbidity, Sm2130b		0.9	NTU
Color	SM2120B	<3	CU
Total Solids	SM 2540	460	mg/l
Total Organic Carbon	EPA 415.1	1.8	mg/l
COD	EPA 410.4	<20	mg/l
BOD	SM5210B	<2	mg/l
Total Coliform	SM9221B	140	/100ml
Fecal Coliform	SM9221E	<2	/100ml

Respectfully Submitted,

Michael Wolf, ~~Director~~

ATTACHMENT DR-6

WEC RECYCLED WATER						
Water Use (Gallons)						
	2011-2012	2010-2011	2009-2010	2008-2009	2007-2008	2006-2007
Mar						0
Apr	17,226,000	37,849,000	18,067,500	41,125,500	18,060,480	0
May	7,510,000	17,256,125	26,197,500	11,850,600	29,463,300	0
Jun		12,546,000	38,987,730	26,446,750	34,033,000	0
Jul		42,376,000	42,061,770	42,650,500	40,750,000	0
Aug		43,307,000	43,522,000	43,256,500	44,719,000	0
Sep		42,905,000	40,517,700	30,143,000	37,189,880	0
Oct		39,761,000	28,952,500	30,053,420	30,053,420	0
Nov		16,607,000	6,999,300	36,984,000	35,722,700	0
Dec		37,191,000	35,444,500	22,503,000	27,278,000	0
Jan		4,845,000	35,036,250	31,695,480	29,513,310	0
Feb		19,386,000	26,863,150	25,250,020	24,822,740	1,709,000
Mar		9,199,000	39,443,600	31,696,000	32,091,600	2,469,220
Annual Gallons		323,228,125	382,093,500	373,654,770	383,697,430	4,178,220
Annual Acre-Ft		991.95	1172.60	1146.70	1177.52	12.82
Yearly Average Water Used AF		900.32	877.41	779.02	595.17	12.82
Yearly Range		1,164.70	1,164.70	1,164.70	1,164.70	0.00

325851 gallons = 1 Acre-Foot

ATTACHMENT DR-7

RESOLUTION NO. 2005-6

RESOLUTION APPROVING RECYCLED WATER SERVICES AGREEMENT

WHEREAS, the Turlock Irrigation District's (District) Walnut Energy Center requires a long-term supply of water to be used in the process of generating electric power; and

WHEREAS, the City of Turlock (City) is willing to provide recycled water from its water treatment plant on a long term basis to the Walnut Energy Center, and the District desires to obtain this recycled water from the City; and

WHEREAS, using recycled water from the City will conserve increasingly scarce fresh water supplies while insuring an adequate long-term water supply for the Walnut Energy Center.

NOW, THEREFORE, be it resolved by the Board of Directors as follows:

1. That the Board of Directors finds that it is in the best interest of the Turlock Irrigation District to enter into an agreement with the City of Turlock for the supply of recycled water to the Walnut Energy Center.
2. That the Recycled Water Services Agreement attached hereto and incorporated herein by reference, is hereby approved.
3. That President and Secretary of the Turlock Irrigation District are authorized and directed to execute and deliver, for and on behalf of the District, the Recycled Water Services Agreement.


Moved by Director Berryhill, seconded by Director Fiorini, that the foregoing resolution be adopted.

Upon roll call the following vote was had:

Ayes:	Directors Berryhill, Fiorini, Fernandes, Short
Noes:	Directors None
Absent:	Director Crowell

The President declared the resolution adopted.

I, Tami M. Wallenburg, Deputy Secretary of the Board of Directors of the TURLOCK IRRIGATION DISTRICT, do hereby CERTIFY that the foregoing is a full, true and correct copy of a resolution duly adopted at a regular meeting of said Board of Directors held the 8th day of February 2005.


Deputy Secretary of the Board of
Directors of the Turlock Irrigation
District



RECYCLED WATER SERVICES AGREEMENT

THIS AGREEMENT, dated January 25, 2005, is between the **CITY OF TURLOCK**, a municipal corporation and the **TURLOCK IRRIGATION DISTRICT**, a public entity.

RECITALS

A. The District proposes to construct the Power Generation Facility, which requires a supply of Recycled Water for use as Process Water.

B. The City is willing to provide Recycled Water services to the Power Generation Facility and the District desires to obtain Recycled Water services from the City. The City and District have determined that providing Recycled Water to meet the Process Water requirements of the Power Generation Facility is in the best interest of the City, the District and its customers.

NOW, THEREFORE, the parties agree as follows:

1. Definitions.

1.1 City: The City of Turlock.

1.2 District: The Turlock Irrigation District.

1.3 Power Generation Facility: The electric power generation facility near West Main Street and Washington Road, Turlock, California, as shown on Attachment 1, also called the Walnut Energy Center.

1.4 Process Water: Water used in the process of generating electric power in the Power Generation Facility.

1.5 Recycled Water: The treated effluent from the Treatment Facility.

1.6 Treatment Facility: The Turlock Regional Water Quality Control Facility.

2. Recycled Water Supply.

2.1 The City agrees to provide up to 2 million gallons per day ("MGD") of Recycled Water to District for use as Process Water.

2.2 The Recycled Water provided by the City for use as Process Water by the Power Generation Facility will meet the discharge requirements set forth in any permits issued to the Treatment Facility by the Central Valley Regional Water Quality Control Board existing at the time this Agreement is executed. Recycled Water provided by the City pursuant to this Agreement shall be the best quality available from the Treatment Facility. The parties acknowledge that the Recycled Water to be used as Process Water may not meet District's water quality requirements for the Power Generation Facility.

Any additional treatment of Recycled Water that may be necessary to render Recycled Water suitable for use in the Power Generation Facility, and all costs thereof, will be the sole responsibility of District.

2.3 District may, at its sole expense, conduct such tests as it deems appropriate to ensure that the Recycled Water meets the water quality requirements for the Power Generation Facility. The City and the District shall exchange test information from routinely performed tests of the Recycled Water. The District agrees that this subsection shall not obligate the City for additional water quality testing that it is not otherwise required pursuant to terms and conditions of its discharge permits. In the event of any disagreement regarding the water quality of the Recycled Water, the parties shall invoke the dispute resolution procedures specified in Section 6 of this Agreement.

3. Emergency Suspension or Reduction; Emergency Notice Procedure.

3.1 If an emergency exists and the suspension or reduction of Recycled Water delivery is required, such service may be suspended or reduced by the City with emergency notice given to the District.

3.2 Emergency notice shall be given to the District in the following manner:

(a) The City shall immediately give notice by telephone to the District's Power Generation Facility, Walnut Energy Center, Turlock, California.

(b) The City shall send written confirmation of the emergency to the District's Power Generation Facility, Walnut Energy Center by telecopier or by personal delivery within forty-eight (48) hours of the emergency.

3.3 The District shall be the last Recycled Water customer curtailed.

3.4 The City shall use its reasonable best efforts to limit the duration of the emergency suspension or reduction.

3.5 For purposes of this Agreement, an "emergency" shall be defined as a biological, electrical or mechanical failure that affects the City's ability to deliver Recycled Water to the Power Generation Facility.

4. Conditions Precedent to Supply of Water.

As conditions precedent to City's obligation under this Agreement to supply Recycled Water to District's Power Generation Facility, the District shall undertake and complete, at its sole expense unless otherwise noted, the following tasks:

(a) Design and construct a Recycled Water Supply Line from City's treatment facility to the Power Generation Facility. The Recycled Water Supply Line shall be connected to the Recycled Water pumping facility at the Treatment Facility at the discharge side of the chlorine contact tank. Once completed the City shall own, operate, and maintain the Recycled Water Supply Line up to the property line of the WEC.

(b) In conjunction with the City, design and construct a Recycled Water pumping facilities on City owned property. The District shall pay its percentage

share of the design and construction based upon the percent capacity utilized of the pump station. The City shall own, operate, and maintain the Recycled Water Supply pumping facilities. The District shall pay its percentage share of the Operation and Maintenance costs of the facility.

(c) Obtain all easements necessary for the construction of the Power Generation Facility and the Recycled Water Supply Line to the Power Generation Facility required to be constructed under this Agreement. The City agrees to grant to the District all easements necessary for the construction of District facilities on City property.

(d) Obtain all permits necessary to construct the Power Generation Facility and to implement this Agreement. The District agrees that it will act as the lead agency for the purpose of securing all permits. The City shall provide assistance and all relevant and available information to the District for its use in obtaining these permits.

(e) Prior to using Recycled Water, the District shall diligently and in good faith obtain from the State Water Resources Control Board either (1) an approval pursuant to Water Code § 1211 for a change in the point of discharge, place of use, or purpose of use of the Recycled Water or (2) a written determination from the State Water Resources Control Board that Water Code § 1211 does not apply to the use of Recycled Water by the Power Generation Facility as contemplated in this Agreement. Additionally, the District will perform the necessary engineering study required by the California Department of Health Services pursuant to Section 60323 of Title 22 of the California Code of Regulations for the use of recycled water at the WEC. All costs associated with this subsection shall be the responsibility of the District. The City, at no cost to the District, agrees to fully cooperate and provide necessary assistance to the District. Such assistance by the City shall include the City's obligation to prepare an engineering report for the California Department of Health Services pursuant to Section 60323 of Title 22 of the California Code of Regulations relating to the City's production of recycled water and compliance with oxidation, turbidity reduction and disinfection currently required by Title 22 for distribution of recycled water, and operation and maintenance of the recycled water distribution system serving WEC. The City's engineering report specified above shall include emergency response procedures and communication protocols to ensure that WEC does not receive recycled water that has not received adequate treatment in order to comply with current DHS requirements for disinfection, turbidity reduction and disinfection.

(f) This Agreement is conditioned upon compliance with the California Environmental Quality Act (CEQA). Except as otherwise provided, the District shall complete, at its sole expense, all necessary CEQA review prior to implementation of this Agreement. The City shall not be responsible for funding or implementing any mitigation measure(s) identified in any CEQA review for this Agreement. The City shall act as a "Responsible Agency" under CEQA as may be required by CEQA, and shall provide the District with relevant and available information to assist the District's CEQA compliance under this Agreement.

(g) All facilities associated with the delivery of Recycled Water shall be constructed in accordance with City standards and criteria. All plans must be

submitted to the City Engineer for approval prior to construction. Such approval shall not be unreasonably withheld by the City.

5. Fees and Charges.

5.1 No connection fee will be charged by the City for the Recycled Water connection.

5.2 The District shall not pay a charge for the Recycled Water delivered to the Power Generation Facility. The District shall pay its percentage cost for the Operation and Maintenance of facilities used to transport the recycled water to the WEC. The City reserves the right to formally establish an ordinance for the determination of and collection of the Recycled Water use charge, provided, however that any such ordinance shall not affect the terms and conditions of this Agreement.

6. Dispute Resolution.

6.1 The parties agree to use best efforts to settle all disputes between themselves arising under this Agreement. The parties further agree that all disputes arising under this Agreement shall be processed exclusively in accordance with the procedures set forth in this Section 6.

6.2 Any dispute arising under this Agreement shall be submitted to a disputes resolution committee composed of the City's Director of Municipal Services and the District's Assistant General Manager, Power Generation.

6.3 In the event the dispute is not resolved by the disputes resolution committee within thirty (30) calendar days of the first meeting of the committee to resolve the dispute ("first committee meeting"), then each party shall submit a written statement to the other party describing the specific basis for the dispute and a proposal for resolution of the dispute. The date to submit the written statement to the other party ("submittal date") shall be set by the disputes resolution committee and in the absence of agreement on the submittal date, the submittal date shall be sixty (60) days after the first committee meeting. In the event that a party fails to submit such notice to the other party by the submittal date, that party shall be deemed to have waived all present and future claims with respect to that dispute.

6.4 The City's City Manager and the District's General Manager shall attempt to resolve the dispute within fifteen (15) calendar days of the submittals provided pursuant to Section 6.3. The parties may mutually agree to extend the 15-calendar day period.

6.5 In the event that the City's City Manager and the District's General Manager are unable to resolve the dispute as provided above, both parties retain all remedies available to them.

7. Term of the Agreement.

7.1 The term of this Agreement shall commence upon execution of the Agreement by both parties and shall continue for a period of 50 years.

7.2 City or District may provide notice of intent to extend the term of this Agreement by serving written notice to the other party at least two years prior to expiration of this Agreement. The parties shall have one year following the receipt of such written notice to agree on the extension. The parties agree to negotiate in good faith for such

extension upon such terms and conditions as may be reasonable, recognizing the then existing technology, the circumstances and conditions of the parties, and the demand for and marketability of the Recycled Water to users other than the District. If the parties are unable to agree on such terms and conditions, then this Agreement shall expire at the end of the initial term.

8. General Provisions.

8.1 In the event that any of the terms, covenants or conditions of this Agreement or the application of any such term, covenant or condition shall be held invalid as to either party, person or circumstance by any court of competent jurisdiction, all other terms, covenants or conditions of this Agreement and their application shall not be affected thereby, but shall remain in full force and effect unless any such court holds that those provisions are not separable from all other provisions of this Agreement.

8.2 This agreement is for the sole benefit of the parties and shall not be construed as granting rights to any person other than the parties or imposing obligations on a party to any person other than the other party.

8.3 Each party shall use its best efforts and work wholeheartedly and in good faith for the expeditious completion of its responsibilities under this Agreement.

8.4 Whenever any act is required to be performed under this Agreement, and the manner in which such act is to be performed is not otherwise specifically detailed, such act shall be performed in a diligent and timely manner.

8.5 "Time is of the essence" is with reference to all provisions of this Agreement.

8.6 This Agreement constitutes the entire agreement of the parties and supercedes all prior agreements or understandings, written or oral, concerning the subject matter of this Agreement. This Agreement may be amended only by a written instrument duly executed by both of the Parties.

8.7 Except as otherwise required by law, this Agreement is made under and shall be deemed to be governed by the laws of the State of California.

8.8 Each party agrees upon request by the other party, to make, execute and deliver any and all documents reasonably required to implement this Agreement.

8.9 This Agreement provides District with a contractual right, subject to the terms and conditions of this Agreement, to receive Recycled Water from City, but is not intended to provide, nor shall it provide to District, any right, title or claim of ownership in the underlying water rights in and to Recycled Water.

8.10 All notices and other communications required under this Agreement shall be in writing and shall be deemed to have been duly given on the date of service, if (a) served personally on the person to whom notice is to be given, or (b) sent by electronic mail, or (c) on the third day after mailing, if mailed to the person to whom notice is to be given by first class mail, postage-prepaid, and properly addressed to the following designated representatives of the Parties:

City: Municipal Services Director
City of Turlock
156 S. Broadway Suite 270
Turlock, CA 95380-5454


District: Assistant General Manager Power Generation
333 East Canal Drive
P. O. Box 949
Turlock, CA 95381-0949

9. Liability, Indemnity, and Insurance.

9.1 To the fullest extent permitted by law, the District shall indemnify and hold harmless and defend the City and/or the City's officers, officials, agents, employees or authorized volunteers from and against any and all liability, losses, claims, causes of action, proceedings, damages, expenses, demands, settlements, and costs (including, but not limited to, interest, penalties, attorney, expert witness and consulting fees, and litigation costs), in law or equity, of every kind or nature whatsoever for, including but not limited to injury to or death of any person including the City or the District, or the directors, officials, officers, agents, employees, or authorized volunteers of either of them, and damages to or destruction of property of any person, including but not limited to, the City or the District or the directors, officials, officers, agents, employees or authorized volunteers of either of them ("Claim") arising out of or in any manner directly or indirectly connected with: (i) the design, construction, ownership or use of the Recycled Water Supply Line, or any property or easements related to the foregoing; (ii) the use or disposal of Recycled Water after delivery to the District; or (iii) arising out of or resulting from, or on account of the violation of any governmental law or regulation, compliance with which is the responsibility of the District.

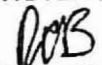
IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by and through their respective officers thereunto duly authorized on the date first hereinabove written.

CITY OF TURLOCK, a municipal corporation

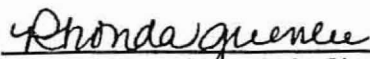
By: 
Steven H. Kyte, City Manager

Date: _____

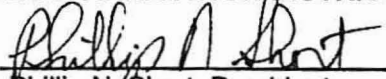
APPROVED AS TO FORM AND LEGALITY:

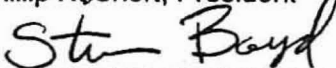
By: 
Richard C. Burton, City Attorney

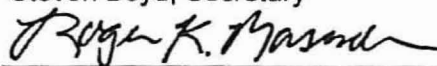
ATTEST:

By: 
Rhonda Greenlee, CMC, City Clerk

TURLOCK IRRIGATION DISTRICT

By: 
Phillip N. Short, President

By: 
Steven Boyd, Secretary

By: 
Roger Masuda, General Counsel

ATTACHMENT DR-8

From: George Davies
To: AJgarcia@energy.state.ca.us; cweaver@energy.state.ca.us
Date: 6/14/2010 10:59 AM
Subject: Soils & Water 5
CC: Brian LaFollette; Charles Canales; Jeffery Harris; Susan Strachan
Attachments: Recycled Water Disruption Initial Call.pdf; Recycled Water Disruption Initial Call.pdf; Recycled Water Disruption Initial Call.pdf

Casey,

I wanted to bring you up to date on TID's actions with regard to "Soils & Water 5" since your visit to the Walnut Energy Center (WEC) on May 12.

1. TID has conducted a Training session with all of the WEC Operations personnel. The Training session discussed the CEC language in the Soils & Water 5 Condition of Certification. The following directive has been provided to the Operations Supervisor at WEC:

"A notification form has been prepared for your staff to use during any interruption of Recycled Water from the City of Turlock (whether we consume well water or not during the interruption). Please discuss this notification form with your staff during the training sessions. The CEC's Compliance Project Manager (CPM) must be notified within 24 hours every time there is an interruption in Recycled Water from the City of Turlock. Protocols for delivery of the form to the CEC's CPM are described in the form itself. In addition, each of these interruption events must also be recorded in the OPS log. Failure to provide the required notice to the CEC's CPM and record the event in the OPS log may result in sanctions."

2. As described above, TID has created a "Recycled Water Disruption Initial Call" form. TID personnel have been trained in the use of this form, and will use it to document interruptions in the Recycled Water flow from the City of Turlock Waste Water Treatment Plant (WWTP). TID has attached this form for your convenience.

3. TID had several discussions with the management staff at the City of Turlock WWTP. TID has asked the City of Turlock to reduce the frequency and duration of these interruptions in Recycled Water flow. The Treatment Plant Manager (Steve Wilson) has directed the WWTP personnel to first attempt to restrict our Recycled Water flow to a single pump (rather than the normal two pump lead/lag arrangement) during these curtailment episodes. This will reduce TID's maximum flow demand by 50% until the curtailment has been lifted. This may allow the City to avoid cutting off the Recycled Water flow completely, and may help WEC avoid consuming ground water if the duration of the curtailment is short.

4. TID has also requested and received operational data from the WWTP which shows a 14% decrease in Effluent flow from year 2006 (when WEC was declared Commercial) to present day. This decreased "in-flow" to the facility may help explain why the City WWTP has not had adequate water for the needs of the Walnut Energy Center.

TID is performing further investigation regarding the volume of groundwater used during the previous operating years. At this point TID does not believe that it is operating outside the scope of the Commission's Conditions of Certification. TID will contact you regarding this issue once our investigation is complete.

Please feel free to contact me if you have any questions.

Regards,
George



Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	John Wieser
Title:	Power Plant Tech
Date and Time of Call:	6/27/11 @ 2147

Start of Disruption (Date and Time)	6/27/11 @ 2145
Event that resulted in Disruption of Recycled Water Service	Low Chlorine
Expected Duration	3 hrs
Actions Required to Restore Recycled Water Service.	Restore Chlorine concentration

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



WATER & POWER
Serving Central California since 1887

Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Sebastian Lub
Title:	Power Plant Tech
Date and Time of Call:	6-21-11

Start of Disruption (Date and Time)	6-21-11 @ 2141
Event that resulted in Disruption of Recycled Water Service	Low Chlorine
Expected Duration	Unknown
Actions Required to Restore Recycled Water Service.	Restore chlorine concentration

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



WATER & POWER
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Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Jeff Carlson
Title:	G.T. Tech
Date and Time of Call:	6-20-11 1820

Start of Disruption (Date and Time)	6-20-11 @ 1536
Event that resulted in Disruption of Recycled Water Service	Low Chlorine levels
Expected Duration	unknown
Actions Required to Restore Recycled Water Service.	Raise Chlorine level?

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	JOHN WIESER
Title:	POWER PLANT TECHNICIAN
Date and Time of Call:	03/22/2011 @ 1413

Start of Disruption (Date and Time)	03/22/2011 @ 1408
Event that resulted in Disruption of Recycled Water Service	CITY OF TURLOCK CHEMICAL PUMP STOPPED WORKING - MOTOR QUIT
Expected Duration	2hrs
Actions Required to Restore Recycled Water Service.	CITY OF TURLOCK TO REPLACE CHEMICAL PUMP MOTOR

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).

Recycled Water Disruption Initial Call-In

Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Dru Stewart
Title:	Power Plant Tech.
Date and Time of Call:	03/04/11 @ 0609

Start of Disruption (Date and Time)	03/04/11 @ 0609
Event that resulted in Disruption of Recycled Water Service	Not enough contact time
Expected Duration	Should be back on Today
Actions Required to Restore Recycled Water Service.	Increase contact time

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
 Siting, Transmission and Environmental Protection Division
 California Energy Commission
 1516 Ninth Street, MS-2000
 Sacramento, CA 95814
 Phone: 916-653-4677
Fax: 916-654-3882
 E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



WATER & POWER
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Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	PAUL KAYSER
Title:	POWER PLANT TECH.
Date and Time of Call:	2/26/11 0754

Start of Disruption (Date and Time)	2/26/11 0755
Event that resulted in Disruption of Recycled Water Service	LOW FLOW
Expected Duration	1 HOUR
Actions Required to Restore Recycled Water Service.	UNKNOWN

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



WATER & POWER
Serving Central California since 1887

Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	John Wieser
Title:	Power Plant Technician
Date and Time of Call:	02-22-2011 / 2145

Start of Disruption (Date and Time)	02-22-2011 / 2136
Event that resulted in Disruption of Recycled Water Service	High Turbidity
Expected Duration	12 hrs
Actions Required to Restore Recycled Water Service.	city of Turlock to improve water quality

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



WATER & POWER
Serving Central California since 1887

Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	JEFF CARLSON
Title:	Operator
Date and Time of Call:	0436/2-3-11

Start of Disruption (Date and Time)	0436/ 2-3-11
Event that resulted in Disruption of Recycled Water Service	Elect. Problem on City Pumps
Expected Duration	unknown
Actions Required to Restore Recycled Water Service.	unknown

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
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3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Sebastian Lub
Title:	Power Plant Technician
Date and Time of Call:	2-2-11 / 1804

Start of Disruption (Date and Time)	1755
Event that resulted in Disruption of Recycled Water Service	Low chlorine contact time.
Expected Duration	~ 2 hours
Actions Required to Restore Recycled Water Service.	Chlorine back in spec.

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	<i>Anthony Chapin</i>
Title:	<i>Operator</i>
Date and Time of Call:	<i>1-31-11 1435</i>

Start of Disruption (Date and Time)	<i>1-31-11 1435</i>
Event that resulted in Disruption of Recycled Water Service	<i>High NTA's</i>
Expected Duration	<i>unknown</i>
Actions Required to Restore Recycled Water Service.	<i>unknown</i>

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	<i>Anthony Chapin</i>
Title:	<i>power plant tech</i>
Date and Time of Call:	<i>1/4/08</i>

Start of Disruption (Date and Time)	<i>1-14-11 14:08</i>
Event that resulted in Disruption of Recycled Water Service	<i>High ntr readings</i>
Expected Duration	<i>unknown</i>
Actions Required to Restore Recycled Water Service.	<i>unknown</i>

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	JEFF CARLSON
Title:	Operator
Date and Time of Call:	1-13-2011 @ 2140

Start of Disruption (Date and Time)	1-13-2011 @ 2126
Event that resulted in Disruption of Recycled Water Service	High NTU
Expected Duration	unknown
Actions Required to Restore Recycled Water Service.	Lower NTU

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Dru Stewart
Title:	Power Plant Tech.
Date and Time of Call:	1-5-11 @ 1127

Start of Disruption (Date and Time)	1-5-11 @ 1127
Event that resulted in Disruption of Recycled Water Service	Low chlorine
Expected Duration	Few hours
Actions Required to Restore Recycled Water Service.	Add chlorine

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



WATER & POWER
Serving Central California since 1887

Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Dru Stewart
Title:	Power Plant Tech.
Date and Time of Call:	1-3-11 @ 1551

Start of Disruption (Date and Time)	1-3-11 @ 1551
Event that resulted in Disruption of Recycled Water Service	High NTU's
Expected Duration	4 hours
Actions Required to Restore Recycled Water Service.	Lower NTU's

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Dru Stewart
Title:	Power Plant Tech.
Date and Time of Call:	12-31-10 @ 1746

Start of Disruption (Date and Time)	12-31-10 @ 1746
Event that resulted in Disruption of Recycled Water Service	Low Chlorine
Expected Duration	Few hours
Actions Required to Restore Recycled Water Service.	Add Chlorine

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



WATER & POWER
Serving Central California since 1887

Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	PAUL KAYSER
Title:	POWER PLANT TECH.
Date and Time of Call:	12/30/10 1750

Start of Disruption (Date and Time)	12/30/10 1746
Event that resulted in Disruption of Recycled Water Service	LOW CHLORINE RESIDUAL
Expected Duration	AT LEAST 2 HOURS
Actions Required to Restore Recycled Water Service.	INCREASE CHLORINE RESIDUAL

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Sebastian Lub
Title:	Power Plant Tech
Date and Time of Call:	12-28-10 / 2257

Start of Disruption (Date and Time)	12-28-10 2257
Event that resulted in Disruption of Recycled Water Service	Chlorine contact time low
Expected Duration	Several hours
Actions Required to Restore Recycled Water Service.	Chlorine contact time back in spec

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	PAUL KAYSER
Title:	POWER PLANT TECHNICIAN
Date and Time of Call:	11/23/10 0555

Start of Disruption (Date and Time)	11/23/10 0555
Event that resulted in Disruption of Recycled Water Service	HIGH NTU
Expected Duration	4 HOURS
Actions Required to Restore Recycled Water Service.	DECREASE NTU

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Anthony Chapin
Title:	Operator
Date and Time of Call:	11-5-10 2100

Start of Disruption (Date and Time)	11-5-10 1930
Event that resulted in Disruption of Recycled Water Service	WEC shut down
Expected Duration	2 weeks
Actions Required to Restore Recycled Water Service.	None

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



WATER & POWER
Serving Central California since 1887

Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

1. Complete the following information **prior** to sending:

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	John @ City of Turlock
Title:	Operations
Date and Time of Call:	01:39 11/2/10

Start of Disruption (Date and Time)	0139 10/2/10
Event that resulted in Disruption of Recycled Water Service	Unknown event has resulted in high MTU's
Expected Duration	"couple of hours"
Actions Required to Restore Recycled Water Service.	"adding chemicals" to lower clear up and correct MTU's

2. Once complete, **FAX** this form to:

Joe Douglas, Compliance Project Manager
Siting, Transmission and Environmental Protection Division
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814
Phone: 916-653-4677
Fax: 916-654-3882
E-mail: jdouglas@energy.state.ca.us

Sent Fax
0146
11/2/10

3. After completing fax, submit this form to the Walnut Energy Center Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

California Energy Commission (CEC)
Siting, Transmission, and Environmental Protection (STEP) Division
Angelique Juarez-Garcia, Compliance Project Manager (CPM)

Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	PAUL KAYSER
Title:	POWER PLANT TECH
Date and Time of Call:	10/26/10 1630

Start of Disruption (Date and Time)	10/26/10 1627
Event that resulted in Disruption of Recycled Water Service	LOW CHLORINE RESIDUAL
Expected Duration	2 HOURS
Actions Required to Restore Recycled Water Service.	ADD CHLORINE

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).

Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

California Energy Commission (CEC)
Siting, Transmission, and Environmental Protection (STEP) Division
Angelique Juarez-Garcia, Compliance Project Manager (CPM)

Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Dru Stewart
Title:	Power Plant Tech.
Date and Time of Call:	10-12-10 @ 2:14

Start of Disruption (Date and Time)	10-12-10 @ 2:14
Event that resulted in Disruption of Recycled Water Service	Low chlorine
Expected Duration	Few hours per Tony
Actions Required to Restore Recycled Water Service.	Add chlorine

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

California Energy Commission (CEC)
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Angelique Juarez-Garcia, Compliance Project Manager (CPM)

Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Dru Stewart
Title:	Power Plant Tech.
Date and Time of Call:	10-12-10 @ 2341

Start of Disruption (Date and Time)	10-12-10 @ 2341
Event that resulted in Disruption of Recycled Water Service	Low chlorine
Expected Duration	Few hours per David
Actions Required to Restore Recycled Water Service.	Add chlorine

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

California Energy Commission (CEC)
Siting, Transmission, and Environmental Protection (STEP) Division
Angelique Juarez-Garcia, Compliance Project Manager (CPM)

Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Sebastian Lub
Title:	Power Plant Tech
Date and Time of Call:	9-16-10 / 1831

Start of Disruption (Date and Time)	9-16-10 / 1823
Event that resulted in Disruption of Recycled Water Service	Chlorine out of spec (low).
Expected Duration	2 hours
Actions Required to Restore Recycled Water Service.	Chlorine in spec.

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

California Energy Commission (CEC)
Siting, Transmission, and Environmental Protection (STEP) Division
Angelique Juarez-Garcia, Compliance Project Manager (CPM)

Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	FRANK CARTER
Title:	OPERATOR Tech.
Date and Time of Call:	9/8/10 1710 HRS

Start of Disruption (Date and Time)	1710 HRS TO 1910 HRS
Event that resulted in Disruption of Recycled Water Service	High NTU @ 2.3
Expected Duration	2 HOURS
Actions Required to Restore Recycled Water Service.	REDUCE TURBIDITY LEVELS

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

California Energy Commission (CEC)
Siting, Transmission, and Environmental Protection (STEP) Division
Angelique Juarez-Garcia, Compliance Project Manager (CPM)

Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	John Wieser
Title:	Power Plant Tech
Date and Time of Call:	09/06/2010 @ 0715

Start of Disruption (Date and Time)	09/06/2010 @ 0711
Event that resulted in Disruption of Recycled Water Service	City of Turlock reports Low water flow
Expected Duration	1.5 hrs
Actions Required to Restore Recycled Water Service.	Wait for flow to increase.

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In

Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

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Angelique Juarez-Garcia, Compliance Project Manager (CPM)

Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	JOHN WIESER
Title:	POWER PLANT TECH
Date and Time of Call:	09/04/2010 @ 1614

Start of Disruption (Date and Time)	09/04/2010 @ 1611
Event that resulted in Disruption of Recycled Water Service	CITY OF TURLOCK STATED WATER QUALITY BELOW STANDARD – HIGH TURBIDITY 2.3 NTU's
Expected Duration	8 hrs
Actions Required to Restore Recycled Water Service.	CITY OF TURLOCK TO IMPROVE WATER QUALITY

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

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Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	PAUL KAYSER
Title:	POWER PLANT TECH.
Date and Time of Call:	8/31/10 0815

Start of Disruption (Date and Time)	8/31/10 0804
Event that resulted in Disruption of Recycled Water Service	PROBLEM WITH CHLORINE RESIDUAL
Expected Duration	LESS THAN 2 HOURS
Actions Required to Restore Recycled Water Service.	UNKNOWN

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

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Angelique Juarez-Garcia, Compliance Project Manager (CPM)

Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	GARY - Jeff Carlson
Title:	Operator
Date and Time of Call:	8-29-10 0715

Start of Disruption (Date and Time)	8-29-10 0715
Event that resulted in Disruption of Recycled Water Service	Low Flow
Expected Duration	2-3 Hours
Actions Required to Restore Recycled Water Service.	more flow received

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

California Energy Commission (CEC)
Siting, Transmission, and Environmental Protection (STEP) Division
Angelique Juarez-Garcia, Compliance Project Manager (CPM)

Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Sebastian Lub
Title:	Power Plant Tech.
Date and Time of Call:	7-27-10 / 0827

Start of Disruption (Date and Time)	7-27-10 / 0805
Event that resulted in Disruption of Recycled Water Service	City of Turlock secured pumps due to high turbidity.
Expected Duration	~ 12 hours
Actions Required to Restore Recycled Water Service.	Tertiary water turbidity back in spec. (Divert until quality improves.)

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Faxed @ 2127
7/13/10

Recycled Water Disruption Initial Call-In
Soils & Water – 5

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

California Energy Commission (CEC)
Siting, Transmission, and Environmental Protection (STEP) Division
Angelique Juarez-Garcia, Compliance Project Manager (CPM)

Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Stephen Martin
Title:	Power Plant Tech
Date and Time of Call:	7/13/10 @ 21:20

Start of Disruption (Date and Time)	7/13/10 @ 2116
Event that resulted in Disruption of Recycled Water Service	City of Turlock stated disruption due to bad water quality.
Expected Duration	Unknown
Actions Required to Restore Recycled Water Service.	City of Turlock to improve water quality

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 5

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Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	M. TEHADA
Title:	OPERATOR T.I.D.
Date and Time of Call:	6/27/10 0301

Start of Disruption (Date and Time)	6/27/10 0301
Event that resulted in Disruption of Recycled Water Service	LOW FLOW
Expected Duration	UNKNOWN
Actions Required to Restore Recycled Water Service.	

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 5

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Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	M. TEHADA
Title:	OPERATOR T.I.D.
Date and Time of Call:	6/25/10 2239

Start of Disruption (Date and Time)	6/25/10 2239
Event that resulted in Disruption of Recycled Water Service	NOTIFIED BY C.O.T. (CITY OF TURLOCK)
Expected Duration	24 HRS
Actions Required to Restore Recycled Water Service.	

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 5

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Angelique Juarez-Garcia, Compliance Project Manager (CPM)

Phone: 916-654-4048

Fax: 916-654-3882

Ajgarcia@energy.state.ca.us

1. Complete the following information prior to sending fax to the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	FRANK CARTER
Title:	POWER PLANT TECH.
Date and Time of Call:	6/24/10 @ 0805

Start of Disruption (Date and Time)	6/24/10 @ 0752
Event that resulted in Disruption of Recycled Water Service	CITY OF TURLOCK STATED WATER QUALITY BELOW STANDARD HAZARDOUS chemical FOUND IN EFFICIENT WATER
Expected Duration	24 HOURS
Actions Required to Restore Recycled Water Service.	CITY OF TURLOCK TO FLUSH AND IMPROVE EFFICIENT WATER

2. Once complete, fax this form to the CEC CPM (Angelique Juarez-Garcia) at **916-654-3882**.
3. After completing fax, submit this form to the WEC Compliance Officer (Charles Canales).



Recycled Water Disruption Initial Call-In Soils & Water – 6

Disruptions of recycled water supply from the City of Turlock's Waste Water Treatment Plant must be reported to the California Energy Commission within 24 hours.

California Energy Commission (CEC)
Siting, Transmission, and Environmental Protection (STEP) Division
Angelique Juarez-Garcia, Compliance Project Manager (CPM)
916-654-4048
Ajgarcia@energy.state.ca.us

1. Complete the following information prior to calling the CEC CPM :

Company Name:	Turlock Irrigation District – Walnut Energy Center Authority
Company Address:	600 S. Washington Rd, Turlock, CA 95380
Identity of Caller:	Dru Stewart
Title:	Power Plant Tech.
Date and Time of Call:	0410 on 6-24-10

Start of Disruption (Date and Time)	0410 on 6-24-10
Event that resulted in Disruption of Recycled Water Service	Had to shut down part of plant due to chemical in water. Caused a Low Flow problem.
Expected Duration	Back in service by 0800 on 6-24-10
Actions Required to Restore Recycled Water Service.	Pump water & chemical to emergency holding pond.

2. Once the form is complete, call CEC CPM (Angelique Juarez-Garcia) at 916-654-4048 and give the information above either by talking to the CEC CPM or by leaving a message.
3. After completing call, submit this form to the WEC Compliance Officer (Charles Canales).