



# **Victoria County Groundwater Conservation District**

**Fiscal Year – 2013 - 2014 Annual Report**  
(October 1, 2013 – September 30, 2014)

**Adopted: May 15, 2015**

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## **Purpose of the Annual Report**

This report is intended to document the District's performance relative to the goals, objectives and performance standards established in the District's Management Plan.

## **District Overview**

The 79th Texas Legislature created the District in 2005 by passage of House Bill 3423. The citizens of Victoria County confirmed creation of the District by an election held on November 8, 2005. The District was formed to protect, conserve, and prevent waste of the groundwater resources beneath the area of Victoria County. To manage the groundwater resources under its jurisdiction, the District is charged with the rights and responsibilities specified in its enabling legislation; the provisions of Chapter 36 of the Texas Water Code; this Management Plan, and the District Rules.

The Victoria County Groundwater Conservation District Board of Directors consists of five members. These five directors are elected by the voters of Victoria County and serve a four-year term. The District observes the same four precincts as the Victoria County Commissioners' with one at-large position. Director terms are staggered on a two-year election interval in even numbered years.

The District has the rights and responsibilities provided in Chapter 36 of the Texas Water Code and Chapter 356 of Title 31 of the Texas Administrative Code. The District has the authority to undertake hydrogeological studies, adopt a management plan, provide for the permitting of certain water wells, and implement programs to achieve statutory requirements. The District has rule-making authority to implement its policies and procedures to manage the groundwater resources of Victoria County.

The boundaries of the District are the same as Victoria County. This area encompasses approximately 888 square miles. The District is bounded by DeWitt County, Lavaca County, Jackson County, Calhoun County, Refugio County, and Goliad County.

## **Review of the Goals, Objectives, and Performance Standards from the Approved Management Plan**

*The management goals, objectives, and performance standards of the District in the areas specified in 31TAC§356.5 are addressed below.*

### **Providing the Most Efficient Use of Groundwater –31TAC 356.5(a)(1)(A) (Implementing TWC §36.1071(a)(1))**

**Objective:** *Develop and maintain a Water Well Registration Program (WWRP) for tracking well information for wells within the District's boundaries.*

**Performance Standard:** *Each year, beginning in 2008, the District will summarize within the annual report the changes related to water well registration including the number of new and existing wells registered.*

#### **Performance Evaluation: SATISFACTORY**

The District has developed and maintains a water well registration program and therefore can report on the number of newly registered wells. As of September 2014, the District had registered 1278 water wells which is an increase of 302 during the fiscal year.

See Attachment 1 for supporting documentation.

**Objective:** *Develop and maintain a Water Well Permitting Program (WWPP) for tracking all permits authorizing water well operation and groundwater production.*

**Performance Standard:** *Each year, beginning in 2008, the District will summarize within the annual report the changes related to water well permitting including the number of new applications and the disposition of the applications.*

#### **Performance Evaluation: SATISFACTORY**

The District has developed and is maintaining its water well permitting program and therefore can report on the number of new applications or their disposition. Below is a table representing statistics for applications submitted through September 30, 2014. The District anticipates that the registration applications that did not indicate a desire to validate historic use may choose to validate historic use in the future.

<b>Application_Status</b>	<b>Application_Outcome</b>	<b>Application_Type_Group</b>	<b>Total</b>
<b>Closed</b>	<b>Approved</b>	Aggregate Production Application	2
		Amendment of Permit or Certificate Application	5
		Drilling Permit Application	225
		Historic Use Validation Application	3
		Operating Permit Application	35
		Production Permit Renewal Application	6
		Registration Application	184
		Waiver and Variance Request Application	1
		Well Plugging and Capping Program Application	1
		<b>Approved Total</b>	<b>462</b>
	<b>Withdrawn</b>	Aggregate Production Application	1
		Drilling Permit Application	3
		Operating Permit Application	2
<b>Withdrawn Total</b>	<b>6</b>		
<b>Closed Total</b>			<b>468</b>
<b>Pending</b>	<b>N/A</b>	Historic Use Validation Application	1
		Registration Application	1
	<b>N/A Total</b>	<b>2</b>	
<b>Pending Total</b>			<b>2</b>
<b>Postponed</b>	<b>N/A</b>	Drilling Permit Application	1
		Operating Permit Application	2
	<b>N/A Total</b>	<b>3</b>	
<b>Postponed Total</b>			<b>3</b>
<b>Grand Total</b>			<b>473</b>

See Attachment 2 for supporting documentation.

**Controlling and Preventing Waste of Groundwater –31TAC 356.5(a)(1)(B) ((Implementing TWC §36.1071(a)(2))**

**Objective:** *Develop and maintain a Water Well Inspection Program (WWIP) for non-exempt wells.*

**Performance Standard:** *Each year, beginning in 2008, the District will summarize within the annual report the findings of the inspection activities including information regarding the number of wells that require improvement to prevent waste and/or prevent groundwater contamination.*

**Performance Evaluation: SATISFACTORY**

The District has satisfactorily met the performance standard of this objective. The table summarizes the metrics of the objectives:

INV-20140327-01	The District investigated a concern of a well owner who expressed concern that a failing septic system of an adjacent property may have resulted in the contamination of groundwater beneath his property and produced by his well. The adjacent landowner ceased operation of the septic system and the matter was resolved.
WIF-20140204-01; WIF-20140311-01; WIF-20140407-01; WIF-20140407-02; WIF-20140407-03; WIF-20140407-04	The District investigated inspected six wells with none of the wells requiring improvement to prevent waste or prevent groundwater contamination.

See Attachment 3 for supporting documentation.

**Objective:** *Develop and maintain a Groundwater Conservation Education Program (GCEP).*

**Performance Standard:** *Each year, beginning in 2008, the District will summarize within the annual report the educational activities including the number of educational materials developed and delivered to local schools, the number of cooperative educational contributions and grants, the number of public speaking events and presentations, the number of*

*community events participated in, and the number of educational publications.*

**Performance Evaluation: SATISFACTORY**

The District has satisfactorily met the performance standard of this objective. The table summarizes the metrics of the objectives:

<b>Standard</b>	<b>Performance</b>
Materials delivered to local schools	None
Cooperative Education Contributions	1. WaterWise Water Conservation Educational Program – 2014
Public Speaking Events	1. South Texas County Judges & Commissioners Association Conference – June 9-12, 2014
Community Events Participated In	1. 2013 South Texas Farm and Ranch Show – October 23-24, 2013
Educational Publications	None

See Attachment 4 for supporting documentation.

**Addressing Conjunctive Surface Water Management Issues – 31TAC356.5 (a)(1)(D) ((Implementing TWC §36.1071(a)(4))**

**Objective:** *Participate in the regional water planning process by attending at least two South Central Texas Regional Water Planning Group (Region L) meetings.*

**Performance Standard:** *Each year, beginning in 2008, the District will summarize within the annual report the attendees, dates, and the number of meetings attended.*

**Performance Evaluation: SATISFACTORY**

The District has satisfactorily met the performance standard of this objective. The table summarizes the metrics of the objectives:

<b>Date</b>	<b>Meeting</b>
November 6, 2013	South Central Texas RWPG (Region L) Workgroup Meeting.
November 7, 2013	South Central Texas RWPG (Region L) Quarterly Meeting
April 23, 2014	South Central Texas RWPG (Region L) Workgroup Meeting
July 24, 2014	South Central Texas RWPG (Region L) Workgroup Meeting
August 7, 2014	South Central Texas RWPG (Region L) Quarterly Meeting

Mr. Andruss attended the meetings listed above. Mr. Eller attended a subset of the meeting listed above.

See Attachment 5 for supporting documentation.

**Objective:** *Communicate with GBRA, SARA, City of Victoria, and Victoria County Navigation District concerning conjunctive surface water management issues.*

**Performance Standard:** *Each year, beginning in 2008, the District will summarize within the annual report the number of and nature of communications with GBRA, SARA, City of Victoria, and Victoria County Navigation District.*



**Performance Evaluation: SATISFACTORY**

The District has satisfactorily met the performance standard of this objective. The District's participation in the regional water planning process provided opportunities during which the District, GBRA, SARA, and City of Victoria discussed conjunctive use. In addition, the District sent letters to GBRA, SARA, City of Victoria, and the Victoria County Navigation District related to conjunctive use of surface water and groundwater.

See Attachment 5 for supporting documentation.

**Addressing Natural Resource Issues which Impact the Use and Availability of Groundwater, and which are Impacted by the Use of Groundwater – 31TAC§356.5 (a)(1)(E) ((Implementing TWC §36.1071(a)(5))**

**Objective:** *Develop and maintain a Water Level Monitoring Program (WLMP).*

**Performance Standard:** *Each year, beginning in 2008, the District will summarize within the annual report the monitoring activities including the number of wells monitored and the year to year change of water level.*

**Performance Evaluation: SATISFACTORY**

The District has satisfactorily met the performance standard of this objective. The District measured 132 water levels during the fiscal year.

See Attachment 6 for supporting documentation.

**Objective:** *Develop and maintain a Water Quality Monitoring Program (WQMP).*

**Performance Standard:** *Each year, beginning in 2008, the District will summarize within the annual report the monitoring activities including the number of wells monitored and the year to year change of water quality.*

**Performance Evaluation: SATISFACTORY**

The District satisfactorily met the performance standard of this objective. The District measured 340 water parameters during the fiscal year.

See Attachment 7 for supporting documentation.

**Addressing Drought Conditions – 31TAC356.5 (a)(1)(F)  
((Implementing TWC §36.1071(a)(6))**

**Objective:** *Collect and review drought condition information related to Victoria County and the surrounding region of Texas on a monthly basis.*

**Performance Standard:** *Each year, beginning in 2008, the District will summarize within the annual report the monthly drought information including Palmer Drought Severity Index (PDSI) maps and the Drought Preparedness Council Situation Report updates posted on the Texas Water Information Network website ([www.txwin.net](http://www.txwin.net)). Additionally, the number of weeks and/or months that the District experienced drought based on the PDSI will be reported in the annual report.*

**Performance Evaluation: SATISFACTORY**

The District has satisfactorily met the performance standard of this objective. The District Board of Directors received updates regarding the drought conditions within the District at regular board meetings. During FY13-14, the District experienced 11 months with drought conditions ranging from abnormally dry to moderate drought.

See Attachment 8 for supporting documentation.

**Addressing Conservation, Recharge Enhancement, Rainwater Harvesting, Precipitation Enhancement, or Brush Control, Where Appropriate and Cost-Effective – 31TAC356.5 (a)(1)(G) (Implementing TWC §36.1071(a)(7))**

***X.A.6.a Conservation***

***Objective:*** Promote groundwater conservation within Victoria County.

***Performance Standard:*** Each year, beginning in 2008, the District will summarize within the annual report the activities directly related to groundwater conservation including educational materials developed and delivered to local schools, cooperative educational contributions and grants, public speaking events and presentations, community event participation, and educational publications. Additionally, the number of activities participated in and the number of educational materials developed or disseminated each year will be reported in the annual report.

**Performance Evaluation: SATISFACTORY**

The District has satisfactorily met the performance standard of this objective. The District's exhibitor booth at the 2013 South Texas Farm and Ranch Show had over 10 different brochures, pamphlets, and other educational and promotional material directly related conservation, recharge enhancement, rainwater harvesting, and brush control. This event was attended by over 2,000 people. The District's booth had considerable attention and the conservation materials were collected by many attendees.

The District directly promoted conservation of groundwater resources through a guest speaking engagement at South Texas County Judges & Commissioners Association Conference during the fiscal year.

The District directly promoted conservation of water resources through its sponsorship of the Resource Action Groups WaterWise Program during the fiscal year.

See Attachment 9 for supporting documentation.

***X.A.6.b Rainwater Harvesting***

***Objective:*** Promote rainwater harvesting within Victoria County.

***Performance Standard:*** Each year, beginning in 2008, the District will summarize within the annual report the activities directly related to

*promoting rainwater harvesting including the development and dissemination of educational materials via the district website and other educational events. Additionally, the number of activities participated in and the number of educational materials developed or disseminated each year will be reported in the annual report.*

**Performance Evaluation: SATISFACTORY**

The District has satisfactorily met the performance standard of this objective. The District's exhibitor booth at the 2013 South Texas Farm and Ranch Show had over 10 different brochures, pamphlets, and other educational and promotional material directly related to conservation, recharge enhancement, rainwater harvesting, and brush control. . This event was attended by over 2,000 people. The District's booth had considerable attention and the conservation materials were collected by many attendees.

See Attachment 9 for supporting documentation.

***X.A.6.c Recharge Enhancement***

***Objective:*** *Promote recharge enhancement within Victoria County.*

***Performance Standard:*** *Each year, beginning in 2008, the District will summarize within the annual report the activities directly related to promoting recharge enhancement including the development and dissemination of educational materials via the district website and other educational events. Additionally, the number of activities participated in and the number of educational materials developed or disseminated each year will be reported in the annual report.*

**Performance Evaluation: SATISFACTORY**

The District has satisfactorily met the performance standard of this objective. The District's exhibitor booth at the 2013 South Texas Farm and Ranch Show had over 10 different brochures, pamphlets, and other educational and promotional material directly related to conservation, recharge enhancement, rainwater harvesting, and brush control. This event was attended by over 2,000 people. The District's booth had considerable attention and the conservation materials were collected by many attendees.

See Attachment 9 for supporting documentation.

#### **X.A.6.e Brush Control**

**Objective:** *Promote brush control within Victoria County.*

**Performance Standard:** *Each year, beginning in 2008, the District will summarize within the annual report the activities directly related to promoting brush control including the development and dissemination of educational materials via the district website and other educational events. Additionally, the number of activities participated in and the number of educational materials developed or disseminated each year will be reported in the annual report.*

#### **Performance Evaluation: SATISFACTORY**

The District has satisfactorily met the performance standard of this objective. The District's exhibitor booth at the 2013 South Texas Farm and Ranch Show had over 10 different brochures, pamphlets, and other educational and promotional material directly related to conservation, recharge enhancement, rainwater harvesting, and brush control. This event was attended by over 2,000 people. The District's booth had considerable attention and the conservation materials were collected by many attendees.

See Attachment 9 for supporting documentation.

Fiscal Year – 2013 - 2014 Annual Report  
Attachment 1

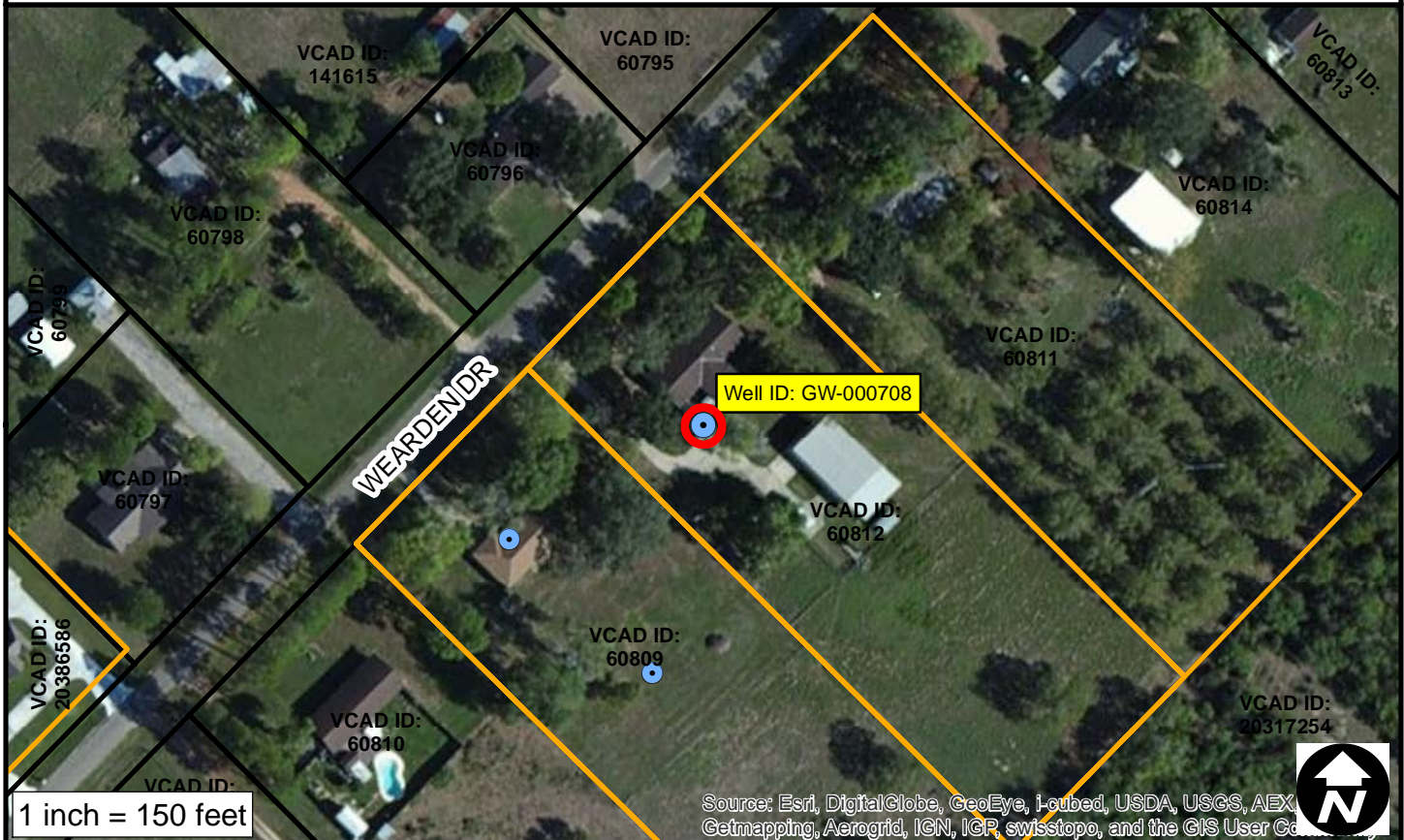


Victoria County Groundwater Conservation District  
 2805 N. Navarro St, Suite 210, Victoria, TX 77901  
 Phone: ( 361 ) 579 - 6863 | FAX: ( 361 ) 579 - 0041  
 www.vcgcd.org | admin@vcgcd.org

A signature of a VCGCD official is required for the document to be considered valid.

## Well Registration Certificate: **WRC - GW-000708 - 01**

Well Registration Number: <b>GW-000708</b>		Application ID: <b>ARW-20140926-01</b>		Latitude: <b>28° 52' 51.884" N</b>	
				Longitude: <b>97° 2' 38.216" W</b>	
Grandfathered Status: <b>Grandfathered</b>	Exemption Status: <b>Exempt Uses</b>	Operational Status: <b>Operational</b>	Certificate Date: <b>9/26/2014</b>		
Well Site Address: <b>117 Wearden Dr.</b> <b>Victoria</b> <b>Texas</b> <b>77904</b>					
Well Owner: <b>John D. Riesterer</b> Owner Entity: <b>-</b> Mailing Address: <b>117 Wearden Dr.</b> <b>Victoria</b> <b>Texas</b> <b>77904</b>					
Phone Numbers: <b>361-573-6179</b>			Email: <b>riestjd@suddenlink.net</b>		



Disclaimer: The records, files, and documents maintained by the Victoria County Groundwater Conservation District (District) contain data and information from many sources. The District can not guarantee the accuracy or validity of such data and information. The District specifically disclaims any warranty or guarantee relating to the accuracy or validity of any such data and information. All users of such data and information should conduct such investigation and review as necessary to independently determine the accuracy or validity of such data and information.





Victoria County Groundwater Conservation District  
 2805 N. Navarro St, Suite 210, Victoria, TX 77901  
 Phone: ( 361 ) 579 - 6863 | FAX: ( 361 ) 579 - 0041  
 www.vcgcd.org | admin@vcgcd.org

A signature of a VCGCD official is required for the document to be considered valid.

## Well Registration Certificate: **WRC - NW-000570 - 01**

Well Registration Number: <b>NW-000570</b>		Application ID: <b>ARW-20140918-01</b>		Latitude: <b>28° 56' 5.010" N</b>	
				Longitude: <b>97° 5' 33.012" W</b>	
Grandfathered Status: <b>Non-Grandfathered</b>	Exemption Status: <b>Exempt Uses</b>	Operational Status: <b>Operational</b>	Certificate Date: <b>9/26/2014</b>		
Well Site Address: <b>Nursery Rd.</b> <b>Nursery</b> <span style="float: right;"><b>Texas</b> <b>77976</b></span>					
Well Owner: <b>Diana G. Rhodes</b>					
Owner Entity: <b>-</b>					
Mailing Address: <b>P.O. Box 37</b> <b>Nursery</b> <span style="float: right;"><b>Texas</b> <b>77976</b></span>					
Phone Numbers: <b>361-578-5953</b>			Email: <b>degrhodes@hughes.net</b>		



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Fiscal Year – 2013 - 2014 Annual Report  
Attachment 2

AppYearMonth (Multiple Items)

Count of Application_ID *			
Application_Status	Application_Outcome	Application_Type_Group	Total
Closed	Approved	Aggregate Production Application	2
		Amendment of Permit or Certificate Application	5
		Drilling Permit Application	225
		Historic Use Validation Application	3
		Operating Permit Application	35
		Production Permit Renewal Application	6
		Registration Application	184
		Waiver and Variance Request Application	1
		Well Plugging and Capping Program Application	1
			<b>Approved Total</b>
Closed	Withdrawn	Aggregate Production Application	1
		Drilling Permit Application	3
		Operating Permit Application	2
	<b>Withdrawn Total</b>		<b>6</b>
<b>Closed Total</b>			<b>468</b>
Pending	N/A	Historic Use Validation Application	1
		Registration Application	1
	<b>N/A Total</b>		<b>2</b>
<b>Pending Total</b>			<b>2</b>
Postponed	N/A	Drilling Permit Application	1
		Operating Permit Application	2
	<b>N/A Total</b>		<b>3</b>
<b>Postponed Total</b>			<b>3</b>
<b>Grand Total</b>			<b>473</b>

Fiscal Year – 2013 - 2014 Annual Report  
Attachment 3

# VCGCD - Aquifer Monitoring - Investigation - INV-20140327-01 - Potential Contamination of Groundwater by Failing Septic System - Closed

## Associated Documentation:

Photos of  
Septic  
Failure





	
Water Quality Monitoring Reports	

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**Description of Investigation:**

Mr. Sills of 13406 Nursery Drive, Nursery, Texas 77967, expressed concern that a failing septic system of an adjacent property may have resulted in the contamination of groundwater beneath his property and produced by his well.

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**Investigation Log:**

20140326 - Mrs. Sills spoke with Tim Andruss (TA) about septic issue near her home. Septic system of adjacent landowner had failed creating a large septic pool to form on her property in close proximity to her water well. TA offered to investigate potential impact to groundwater resources.

20140327 - Tim Faltysek (TC) visits site and investigates issue. TC collects photos of septic pool, baseline water quality parameters of the nearby water well. Landowner agrees to register water wells.

20140328 - TA spoke with Victoria County Health Department (VCHD) staff regarding apparent septic system failure. VCHD aware of issue caused by adjacent landowner's septic system failure. VCHD pursuing enforcement actions related to septic system failure.

20140407 - TA spoke with VCHD regarding matter. VCHD stated the issue had not been resolved. VCHD intended to escalate enforcement efforts. TA contacted Mr. Sills to provide

an update on the investigation.

20140407 - TC collected water samples from well GW-000578 and submitted the samples to B Environmental (BE) for analysis of E.Coli. contamination.

20140416 - BE provided test results, identified as WQM-20140416-01 to the District indicating EColi presence in groundwater sample. TA notified Mr. Sills of contamination and provided information on the test results and proper disinfection procedures. TA informed Mr. Sills of District's willingness to test for the presence of E. coli. after proper disinfection of well GW-000578.

20140423 - TC collected water samples from wells GW-000586 and GW-000587 and submitted the samples to VCHD for analysis of E.coli. contamination.

20140428 - VCHD provided test results to the District indicating the lack of EColi presence in groundwater sample.

20140527 - TC collected water sample from well GW-000578 and submitted the sample to B-Environmental (BE) for analysis for E.coli. contamination after disinfection.

20140603 - BE provided test results, identified as WQM-20140603-01, to the District indicating EColi was not present in the groundwater sample. TC notified Mr. Sills that there was no presence of EColi after disinfection.

---

**Investigation Findings:**

1. Presence of septic pool in close proximity of water well GW-000578
2. Presence of E. coli in water sample from water well GW-000578 before disinfection.
3. Presence of no E. coli in the water sample from well GW-000578 after disinfection.

---

**District Action:**

1. Sample Collection and Analysis



## VCGCD RECORDS (6 Documents Displayed)

RECORD_INDEX_ID	RECORD_SERIES_ID	RECORD_NAME	RECORD_CREATION_DATE	RECORD_DESTRUCTION_ELIGIBILITY_DATE	KEYWORD1	KEYWORD2	KEYWORD3	KEYWORD4	KEYWORDS5
25494	UT5025-04	WIF-20140204-01	02/04/2014	[Blank]	INSPECTIONS RECORDS	Inspection Logs and Reports of Water Related Facilities	NW-000210	[Blank]	[Blank]
25495	UT5025-04	WIF-20140311-01	03/11/2014	[Blank]	INSPECTIONS RECORDS	Inspection Logs and Reports of Water Related Facilities	R1GW- 000001	[Blank]	[Blank]
25496	UT5025-04	WIF-20140407-01	04/07/2014	[Blank]	INSPECTIONS RECORDS	Inspection Logs and Reports of Water Related Facilities	GW-000576	[Blank]	[Blank]
25497	UT5025-04	WIF-20140407-02	04/07/2014	[Blank]	INSPECTIONS RECORDS	Inspection Logs and Reports of Water Related Facilities	NW-000179	[Blank]	[Blank]
25498	UT5025-04	WIF-20140407-03	04/07/2014	[Blank]	INSPECTIONS RECORDS	Inspection Logs and Reports of Water Related Facilities	NW-000122	[Blank]	[Blank]
25499	UT5025-04	WIF-20140407-04	04/07/2014	[Blank]	INSPECTIONS RECORDS	Inspection Logs and Reports of Water Related Facilities	NW-000425	[Blank]	[Blank]

# Victoria County Groundwater Conservation District

WELL INSPECTION FORM (Page1)

WIF- 20140204 - 01

VCGCD Well ID:	NW - 000210
Latitude:	28° 44' 40.000" N
Longitude:	97° 6' 58.023" W
Grandfathered Status:	GRANDFATHERED NON-GRANDFATHERED ✓
Exemption Status:	EXEMPT NON-EXEMPT ✓
Well Owner Name:	Crest Holdings
Well Site Address:	8741 W.S. HWY 595
Purpose of Use:	Commercial

Does the well appear be properly located in accordance with state and district rules?	yes
Does the well appear to be constructed to state and district standards?	yes
Does the well appear to be causing or contributing waste of groundwater as defined and described in the District's Rules?	NO
Does the well appear to be properly sealed or capped?	yes
Does the well appear to be contributing to the pollution or damage of the aquifer?	NO

Notes
Fairly new well

Recommended Corrective Action
None

Jim Faltysek  
Signature of District Representative

2-10-2014  
Date

Tim Faltysek  
Printed Name of District Representative

# Victoria County Groundwater Conservation District

WELL INSPECTION FORM (Page1)

WIF- 20140311-01

VCGCD Well ID:	R1GW-000001
Latitude:	28° 47.061N
Longitude:	97° 02.973W
Grandfathered Status:	GRANDFATHERED ✓ NON-GRANDFATHERED
Exemption Status:	EXEMPT NON-EXEMPT ✓
Well Owner Name:	Floreo, Inc.
Well Site Address:	190 Old Joliad Road.
Purpose of Use:	Commercial

Does the well appear to be properly located in accordance with state and district rules?	yes
Does the well appear to be constructed to state and district standards?	yes
Does the well appear to be causing or contributing waste of groundwater as defined and described in the District's Rules?	NO
Does the well appear to be properly sealed or capped?	yes
Does the well appear to be contributing to the pollution or damage of the aquifer?	NO

Notes
None

Recommended Corrective Action
None

Jim Faltysek  
Signature of District Representative

3-11-2014  
Date

Jim Faltysek  
Printed Name of District Representative

# Victoria County Groundwater Conservation District

WELL INSPECTION FORM (Page1)

WIF- 20140407 - 01

VCGCD Well ID:	DW-000576
Latitude:	28° 53.403
Longitude:	96° 50.237
Grandfathered Status:	<u>GRANDFATHERED</u> NON-GRANDFATHERED
Exemption Status:	<u>EXEMPT</u> NON-EXEMPT
Well Owner Name:	Wallace Brown
Well Site Address:	171 Pocket oak Bend
Purpose of Use:	House hold

Does the well appear to be properly located in accordance with state and district rules?	Yes
Does the well appear to be constructed to state and district standards?	yes
Does the well appear to be causing or contributing waste of groundwater as defined and described in the District's Rules?	NO
Does the well appear to be properly sealed or capped?	Yes
Does the well appear to be contributing to the pollution or damage of the aquifer?	NO

Notes
None

Recommended Corrective Action
None

Jim Faltysek  
Signature of District Representative

4-7-2014  
Date

Tim Faltysek  
Printed Name of District Representative

# Victoria County Groundwater Conservation District

WELL INSPECTION FORM (Page 1)

WIF- 20140407 - 02

VCGCD Well ID:	NW-000179
Latitude:	28° 41.078 N
Longitude:	96° 55.253 W
Grandfathered Status:	GRANDFATHERED NON-GRANDFATHERED ✓
Exemption Status:	EXEMPT ✓ NON-EXEMPT
Well Owner Name:	Rafael Resendez
Well Site Address:	19593 FM 1686
Purpose of Use:	Domestic

Does the well appear to be properly located in accordance with state and district rules?	Yes ✓
Does the well appear to be constructed to state and district standards?	No
Does the well appear to be causing or contributing waste of groundwater as defined and described in the District's Rules?	No
Does the well appear to be properly sealed or capped?	unknown
Does the well appear to be contributing to the pollution or damage of the aquifer?	unknown



Notes
Well Head is covered up with gravel

Recommended Corrective Action
Needs to Be Reworked to uncover Well Head.

Tim Fattysel  
Signature of District Representative

4-7-2014  
Date

Tim Fattysel  
Printed Name of District Representative

# Victoria County Groundwater Conservation District

WELL INSPECTION FORM (Page1)

WIF-

20140407 - 03

VCGCD Well ID:	NW-000122
Latitude:	28° 40.434 N
Longitude:	96° 54.869 W
Grandfathered Status:	GRANDFATHERED NON-GRANDFATHERED ✓
Exemption Status:	EXEMPT ✓ NON-EXEMPT
Well Owner Name:	Aelda Flores
Well Site Address:	10796 HWY 185 S
Purpose of Use:	House hold

Does the well appear to be properly located in accordance with state and district rules?	Yes
Does the well appear to be constructed to state and district standards?	Yes
Does the well appear to be causing or contributing waste of groundwater as defined and described in the District's Rules?	NO
Does the well appear to be properly sealed or capped?	Yes
Does the well appear to be contributing to the pollution or damage of the aquifer?	NO

Notes
None

Recommended Corrective Action
None

Jim Faltysek  
Signature of District Representative

4/7/2014  
Date

Tom Faltysek  
Printed Name of District Representative

# Victoria County Groundwater Conservation District

WELL INSPECTION FORM (Page1)

WIF- 20140407 - 04

VCGCD Well ID:	NW-000425
Latitude:	28° 40.561N
Longitude:	96° 54.877W
Grandfathered Status:	GRANDFATHERED NON-GRANDFATHERED ✓
Exemption Status:	EXEMPT ✓ NON-EXEMPT
Well Owner Name:	Janell Baumgard
Well Site Address:	10715 HWY 185 S
Purpose of Use:	Household

Does the well appear to be properly located in accordance with state and district rules?	yes
Does the well appear to be constructed to state and district standards?	yes
Does the well appear to be causing or contributing waste of groundwater as defined and described in the District's Rules?	no
Does the well appear to be properly sealed or capped?	yes
Does the well appear to be contributing to the pollution or damage of the aquifer?	no

Notes
None

Recommended Corrective Action
None

Tim Faltys  
Signature of District Representative

4-7-2014  
Date

Tim Faltys  
Printed Name of District Representative

Fiscal Year – 2013 - 2014 Annual Report  
Attachment 4

VICTORIA COUNTY GROUNDWATER  
CONSERVATION DISTRICT

2805 N NAVARRO ST STE 210  
VICTORIA, TX 77901-3947  
PH(361)579-6863

09-06

3220

88-255/1131  
04

DATE 9-3-2014

PAY  
TO THE  
ORDER OF

Resource Action Programs

\$ 10,572.88

Ten thousand five hundred seventy two & 88/100

DOLLARS

Program Type: 1276 - Waterwise Program



**First Victoria**  
First Victoria National Bank  
Texas  
firstvictoria.com

PO: 001609

FOR INV # 0531140 8127-1276-IN

*[Signature]*

Barbara Dietzel

⑈003220⑈ ⑆13102552⑆ ⑈00 23566⑈

pd 9/3/14 by  
CK# 3220

# INVOICE

## RESOURCE ACTION PROGRAMS

976 UNITED CIRCLE  
SPARKS, NV 89431  
(888) 438-9473 FAX (800) 544-8051

INVOICE NUMBER: 05311408127-1276-IN

INVOICE DATE: 6/11/2014

INVOICE DUE DATE: 7/11/2014

9-3-2014  
B.P.

**SOLD TO:**

**VICTORIA COUNTY GROUNDWATER  
CONSERVATION DISTRICT**  
ATTN: TIM ANDRUSS  
2805 N. NAVARRO ST.  
VICTORIA, TX 77901

RAP REPRESENTATIVE: DAVID GRIDER  
CUSTOMER NO: 08127  
PURCHASE ORDER NO: 001609  
PROGRAM TYPE: 1276 - WATERWISE PROGRAM

DATE	ORDER ID	SHIP TO	PARTICIPANTS	COST	FREIGHT	TOTAL	RAP REFERENCE #
1/30/2014	464590	BLOOMINGTON ELEMENTARY SCHOOL	81	\$2,823.66	\$202.50	\$3,026.16	4485
1/30/2014	464591	MISSION VALLEY ELEMENTARY SCHOOL	35	\$1,220.10	\$87.50	\$1,307.60	4485
2/7/2014	464997	GUADALUPE ELEMENTARY SCHOOL	28	\$976.08	\$70.00	\$1,046.08	4513
2/19/2014	465602	WILLIAM WOOD ELEMENTARY SCHOOL	4	\$139.44	\$10.00	\$149.44	4513
2/21/2014	465880	ALOE ELEMENTARY SCHOOL	104	\$3,625.44	\$260.00	\$3,885.44	4513
2/19/2014	465603	WILLIAM WOOD ELEMENTARY SCHOOL	15	\$522.90	\$37.50	\$560.40	4514
2/19/2014	465603	WILLIAM WOOD ELEMENTARY SCHOOL	2	\$0.00	\$0.00	\$0.00	4514
4/1/2014	469307	NURSERY ELEMENTARY SCHOOL	16	\$557.76	\$40.00	\$597.76	4645

Received  
7-23-14 by  
in the office of

LM  
9.3.14



**BUDGET UPDATE**

PROGRAM BUDGET: \$10,572.88  
CUMULATIVE TO DATE: \$10,572.88  
BUDGET REMAINING: \$0.00

**CURRENT INVOICE**

PARTICIPANTS: 285  
COST: \$9,865.38  
FREIGHT: \$707.50

**INVOICE TOTAL: \$10,572.88**



Cycle: <i>FY14M12</i>	Transaction Date: <i>9/3/14</i>	Banking Institution: Prosperity Bank	Bank Account: 7060023566
Transaction ID: <i>CR # 3220</i>	Transaction Amount: <i>-10,572.88</i>	Transaction Type: <i>Expense</i>	
Transaction Name: <i>Resource Action Programs</i>			
Transaction Description: <i>Inv # 05311408127-1276-IN / Program Type: 1276-Waterwise Program</i> <i>P.O: 001609 / PP: 6/11/14</i>			

Allocation on Transaction to Budget Accounts

2120 – FIT Withheld (Employee)		5310 - Meeting Registrations	
2150 – FICA/SS/Medicare Withheld (Employer)		5315 - Educational Materials	
2155 – FICA/SS/Medicare Withheld (Employee)		5326 - Travel Expenses	
2160 – SUTA (Employer)		5356 - Public Education	
2170 – Retirement Withheld (Employer)		5360 - Public / Legal Notices	
2175 – Retirement Withheld (Employee)		5365 - Memberships / Dues / Subscriptions	
2180 – Health Benefits Withheld (Employer)		5401 - Legal Services	
2182 – Health Benefits Withheld (Employee)		5403 - Other Professional Services	
2190 – Child Support Withheld (Employee)		5405 - Research and Consultation	<i>-10,572.88</i>
4120 - Tax Collections		5410 - Tax Assessor	
4130 - Interest Income		5411 - Appraisal District	
4140 - District Fees		5413 - Property and Casualty Insurance	
4150 - Grants		5415 - Bank Analysis	
4160 - Refunds		5420 - Election Expenses	
4170 - Delinquent Tax Collections		5425 - Equipment Repair	
4180 - Delinquent Tax Penalties and Interest		5441 - Event Sponsorship	
5201 - District Manager Wages		5442 - Advertisements	
5202 - Admin. Assistant Wages		5450 - Office Rent	
5203 - Aquifer Monitoring Technician Wages		5460 - Regional Planning	
5205 - Retirement Benefits		5470 - Information Technology Services	
5220 - Health Benefits		5495 - Aquifer Monitoring	
5250 - Social Security		5601 - Vehicle	
5255 - Medicare		5602 - Software	
5260 - State Unemployment		5603 - Hardware	
5305 - Office and Meeting Supplies		5604 - Equipment	

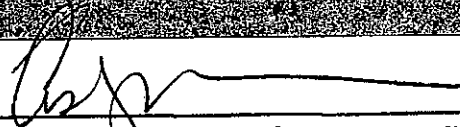


Victoria County Groundwater Conservation District  
 2805 N. Navarro St, Suite 210, Victoria, Texas 77901  
 (361) 579-6863 (361) 579-0041  
 Website: [www.vcgcd.org](http://www.vcgcd.org) Email: [admin@vcgcd.org](mailto:admin@vcgcd.org)

Received  
 6-25-14 DJ  
 In the office of



## Participation Acknowledgement Form

PROGRAM/EVENT INFORMATION			
Program/Event Title:	South Texas County Judges & Commissioners Association Conference		
Program/Event Date:	June 9-12, 2014	Program/Event Location:	South Padre Island Convention Centre, 7355 Padre Blvd., South Padre Island, TX 78597
Program Description:			
Description of VCGCD Participation:	Tim Andruss, General Manager of Victoria County Groundwater Conservation District, participated in a panel discussion about groundwater conservation districts on June 10, 2014 from 3:20-4:10 pm.		
DISCUSSION TOPICS			
Efficient Use of Groundwater	<input type="checkbox"/>	Preventing Waste of Groundwater	<input checked="" type="checkbox"/>
Conjunctive Use	<input checked="" type="checkbox"/>	Natural Resource Issues	<input checked="" type="checkbox"/>
Drought Conditions	<input type="checkbox"/>	Conservation	<input checked="" type="checkbox"/>
Recharge Enhancement	<input type="checkbox"/>	Rain Water Harvesting	<input type="checkbox"/>
Precipitation Enhancement	<input type="checkbox"/>	Brush Control	<input type="checkbox"/>
Preventing Subsidence	<input checked="" type="checkbox"/>	Desired Future Conditions	<input checked="" type="checkbox"/>
SIGNATURE			
 Signature of Program/Event Coordinator		Date <u>6/25/14</u>	
Printed Name and Title of Program/Event Coordinator <u>Ashley Mathews</u>			



*South Texas*  
**COUNTY JUDGES &  
COMMISSIONERS  
ASSOCIATION**

— *Conference* —



2014

*June 9-12*  
*South Padre Island, TX*

**Commissioners Court Training**  
*SPI Convention Centre, Theater*

Persons attending this session earn four (4) continuing education hours.

1:20 pm - 2:10 pm

**The Role of the County Relating to  
Maintenance, Preservation, and  
Cemetery Laws in Texas**

**Denny McWilliams**, Texas Historical  
Commission

2:10 pm - 3:00 pm

**Better Road, Safer Roads,  
Safer Workers**

**Eldon McCurley**, University of Texas at  
Arlington

3:00 pm - 3:20 pm

**Refreshment Break**

*Exhibit Hall*

Sponsored by McCreary, Veselka, Bragg  
& Allen, P.C.

3:20 pm - 4:10 pm

**Groundwater Conservation Districts**

**Jim Allison**, Allison, Bass & Magee, LLP

**Tim Andruss**, South Central Texas  
Regional Water Planning Group

**Billy Howe**, Texas Farm Bureau

4:10 pm - 5:00 pm

**Unincorporated Areas of the County**

**Chuck Kimbrough**, Bickerstaff Heath  
Delgado Acosta LLP

5:00 pm

**Adjourn**

**Host Court Night**

*Clayton's Beach Bar & Grill*

7:00 pm

**Many thanks to Cameron County**

*Busing from hotels available*


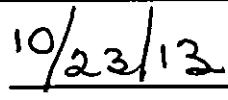



Victoria County Groundwater Conservation District  
 2805 N. Navarro St, Suite 210, Victoria, Texas 77901  
 (361) 579-6863 (361) 579-0041  
 Website: [www.vcgcd.org](http://www.vcgcd.org) Email: [admin@vcgcd.org](mailto:admin@vcgcd.org)

## Participation Acknowledgement Form

PROGRAM/EVENT INFORMATION			
Program/Event Title:	2013 South Texas Farm & Ranch Show		
Program/Event Date:	October 23 & 24, 2013	Program/Event Location:	Victoria Community Center, Victoria, Texas
Program Description:			
Description of VCGCD Participation:	Exhibit Booth and presentation with Educational Materials related to Groundwater Resources.		

DISCUSSION TOPICS			
Efficient Use of Groundwater	X	Preventing Waste of Groundwater	X
Conjunctive Use	X	Natural Resource Issues	X
Drought Conditions	X	Conservation	X
Recharge Enhancement	X	Rain Water Harvesting	X
Precipitation Enhancement		Brush Control	X
Preventing Subsidence		Desired Future Conditions	X

SIGNATURE	
 Signature of Program/Event Coordinator	 Date
 Printed Name and Title of Program/Event Coordinator	

VICTORIA COUNTY GROUNDWATER  
CONSERVATION DISTRICT

2805 N NAVARRO ST STE 210  
VICTORIA, TX 77901-3947  
PH(361)579-6863

09-06

2718

DATE 11-1-12

88-255/1131  
04

PAY  
TO THE  
ORDER OF

South Texas Farm & Ranch Show

Four hundred sixty & no/100

\$ 460.00

DOLLARS



Security  
Features  
Detailed on  
Back.



**First Victoria**

First Victoria National Bank  
Texas  
firstvictoria.com

PP: 10/23-24/2013

FOR

Booth # 46 Rental Fee - 2013 Show

[Signature]  
MP

⑈002718⑈ ⑆113102552⑆ ⑈00 2356.6⑈



ARW- \_\_\_\_\_ - \_\_\_\_\_

## Victoria County Groundwater Conservation District

2805 N. Navarro St., Suite 210, Victoria, Texas 77901

Phone: (361)579-6863

FAX: (361)579-0041

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Email: [admin@vcgcd.org](mailto:admin@vcgcd.org)

# APPLICATION TO REGISTER A WELL

**Complete this application for the purposes of obtaining a well registration certificate for an existing well.**

**Note:** In accordance with the District's rules, the District may request additional information not requested in this application in order to consider the application administratively complete.

### Instructions:

1. Complete the form to the best of your knowledge and belief.
2. Type or print all information.
3. Attach copies of any relevant documentation or information to this application.
  - a. Attach a copy of the well driller's well log if the well was drilled after Year 2008.
  - b. Attach documentation demonstrating authority to act as an agent of the landowner if the application is submitted under the signature other than the landowner's signature.
4. If a portion of the information requested on this form cannot be provided, please indicate this by entering "unknown" in the related blank space



ARW- \_\_\_\_\_ - \_\_\_\_\_

## Victoria County Groundwater Conservation District

### SECTION 1: WELL OWNER INFORMATION

Last Name, First Name, Middle Initial

Owner Entity (Partnership / Corporation / Trust, etc.)

Mailing  
Address:

City:

State:

Zipcode:

Phone:

E-Mail:

### SECTION 2: WELL LOCATION INFORMATION

Property  
Address:

City:

State:

Zipcode:

Nearest  
Intersection:

Latitude:

Longitude:





ARW- \_\_\_\_\_ - \_\_\_\_\_

### Victoria County Groundwater Conservation District

<b>SECTION 3: WELL CONSTRUCTION INFORMATION</b> (Attach the driller's well log if available.)	
Well Completion Year	Well Depth (Feet Below Surface)
Casing Material (PVC, Steel, Other)	Casing Diameter (Inches)
Depth to Top of Screen (Feet Below Surface)	Depth to Bottom of Screen (Feet Below Surface)
Well Capacity (Gallons per Day)	

<b>SECTION 4: WELL USE INFORMATION</b>	
An "Exempt Well" is a well that 1) is used solely for domestic purposes or for providing water for livestock, poultry or personal recreational use that is drilled, completed, or equipped so that it is incapable of producing more than 28,800 gallons (20 gpm) of groundwater per day; or 2) a well otherwise exempt under the provisions of Section 36.117, Water Code. All other wells are considered "Non-Exempt Wells."	
Is the subject well constructed and operated as an "Exempt Well?"	YES   NO

<b>SECTION 5: AGREEMENT</b>	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision; the information submitted is, to the best of my knowledge and belief, true, accurate and complete; and I agree to operate the well in accordance with the Victoria County Groundwater Conservation District's Rules and the State of Texas' regulations. Further, I certify under penalty of law that I am the well owner or I am authorized to act as the agent of the well owner.	
_____ Signature of Well Owner or Authorized Agent	_____ Date
_____ Printed Name of Well Owner or Authorized Agent	



AVW- \_\_\_\_\_ - \_\_\_\_\_

## Victoria County Groundwater Conservation District

2805 N. Navarro St., Suite 210, Victoria, Texas 77901

Phone: (361)579-6863

FAX: (361)579-0041

Website: [www.vcgcd.org](http://www.vcgcd.org)

Email: [admin@vcgcd.org](mailto:admin@vcgcd.org)

# APPLICATION TO VALIDATE HISTORIC USE OF A WELL

**Complete this application for the purposes of obtaining a historic use validation permit to operate a grandfathered, non-exempt well.**

**Note:** In accordance with the District's rules, the District may request additional information not requested in this application in order to consider the application administratively complete.

### Instructions:

1. Complete the form to the best of your knowledge and belief.
2. Type or print all information.
3. Attach copies of any relevant documentation or information to this application.
  - a. Attach deed or other documentation demonstrating ownership of the proposed well location.
  - b. Attach location map depicting property lines, existing wells, and potential sources of groundwater contamination.
  - c. Attach any waiver or variance requests of the District's rules.
  - d. Attach documentation demonstrating authority to act as an agent of the landowner if the application is submitted under the signature other than the landowner's signature.
4. If a portion of the information requested on this form cannot be provided, please indicate this by entering "unknown" in the related blank space.



AVW- \_\_\_\_\_ - \_\_\_\_\_

**Victoria County Groundwater Conservation District**

SECTION 1: WELL OWNER INFORMATION		
Last Name, First Name, Middle Initial		
Owner Entity (Partnership / Corporation / Trust, etc.)		
Mailing Address:		
City:	State:	Zipcode:
Phone:		
E-Mail:		

SECTION 2: WELL LOCATION INFORMATION		
Property Address:		
City:	State:	Zipcode:
Nearest Intersection:		
Latitude:	Longitude:	
If the subject well is registered with the District, specify the well registration identification:		WRC- _____
If the subject well is not registered with the District, specify the well registration application identification:		ARW- _____
Specify the acreage of the well site property:		



**Victoria County Groundwater Conservation District**

<b>SECTION 3: HISTORIC USE INFORMATION</b>	
An "Exempt Well" is a well that 1) is used solely for domestic purposes or for providing water for livestock, poultry or personal recreational use that is drilled, completed, or equipped so that it is incapable of producing more than 28,800 gallons (20 gpm) of groundwater per day; or 2) a well otherwise exempt under the provisions of Section 36.117, Water Code.	
Between January 1990 and December 2008, was the subject well operated in a manner that would not be considered exempt by the District?	YES   NO
Specify the year between 1990 and 2008 for which historic use validation is requested:	
Specify the maximum production rate for the subject well within the year for which validation of historic use is requested?	Per Minute: <span style="float: right;">GPM</span>
	Per Day: <span style="float: right;">GPD</span>
	Per Month: <span style="float: right;">GPMo</span>
	Per Year: <span style="float: right;">Ac-Ft</span>
Specify the purpose to which the groundwater was used within the year for which validation of historic use is requested:	
Within the year for which historic use validation is requested, was the subject well operated as part of an interconnected multi-well system?	YES   NO
Describe the evidence supporting the validation request. (Attach additional documentation or explanation to the application as needed.)	



AVW- \_\_\_\_\_ - \_\_\_\_\_

## Victoria County Groundwater Conservation District

### SECTION 4: AGREEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision; the information submitted is, to the best of my knowledge and belief, true, accurate and complete; and I agree to operate the well in accordance with the Victoria County Groundwater Conservation District's Rules and the State of Texas' regulations. Further, I certify under penalty of law that I am the well owner or I am authorized to act as the agent of the well owner.

\_\_\_\_\_  
Signature of Well Owner or Authorized Agent

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name of Well Owner or Authorized Agent

### NOTARY PUBLIC'S CERTIFICATE

Subscribed and sworn to before me, by the said \_\_\_\_\_,  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, to certify which witness my hand  
and seal of office.

\_\_\_\_\_  
Notary Public Signature

\_\_\_\_\_  
Notary Public Printed Name

Notary Public in and for \_\_\_\_\_ County, Texas.

My commission expires \_\_\_\_\_.



AVW- \_\_\_\_\_ - \_\_\_\_\_

## Victoria County Groundwater Conservation District

### AFFIDAVIT OF PAST PRODUCTION

Before me, the undersigned authority, appeared \_\_\_\_\_ who, being duly sworn states as follows:

- "1. I am 18 years of age or older and competent to submit this affidavit.
2. To the best of my knowledge and belief, the information contained in the attached application to validate the historic use of a well is true and correct.
3. All available information concerning groundwater production during the validation period has been provided to the Victoria County Groundwater Conservation District."

\_\_\_\_\_  
Signature

#### NOTARY PUBLIC'S CERTIFICATE

Subscribed and sworn to before me, by the said \_\_\_\_\_,  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, to certify which witness my hand  
and seal of office.

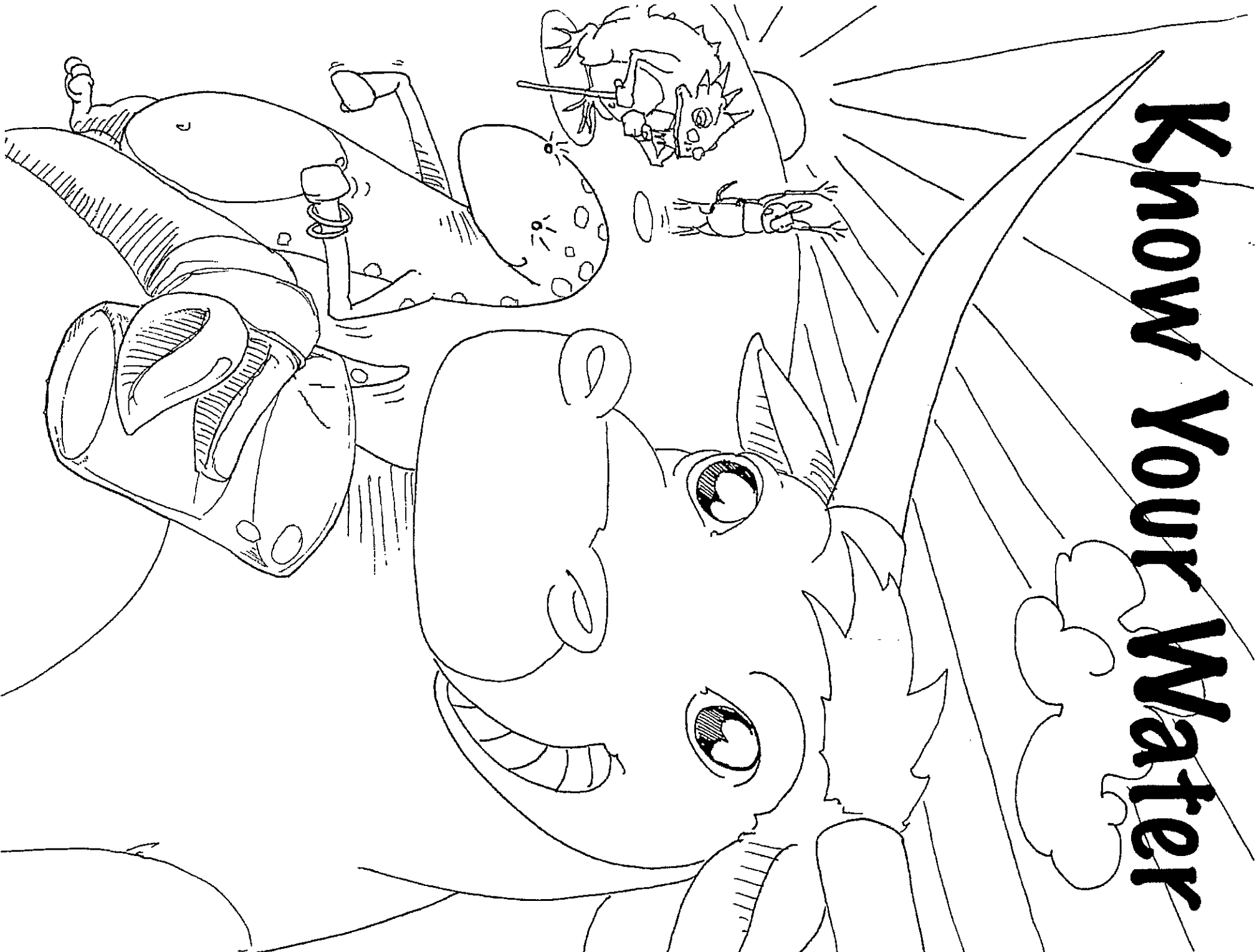
\_\_\_\_\_  
Notary Public Signature

\_\_\_\_\_  
Notary Public Printed Name

Notary Public in and for \_\_\_\_\_ County, Texas.

My commission expires \_\_\_\_\_.

# Know Your Water



# We all use water differently

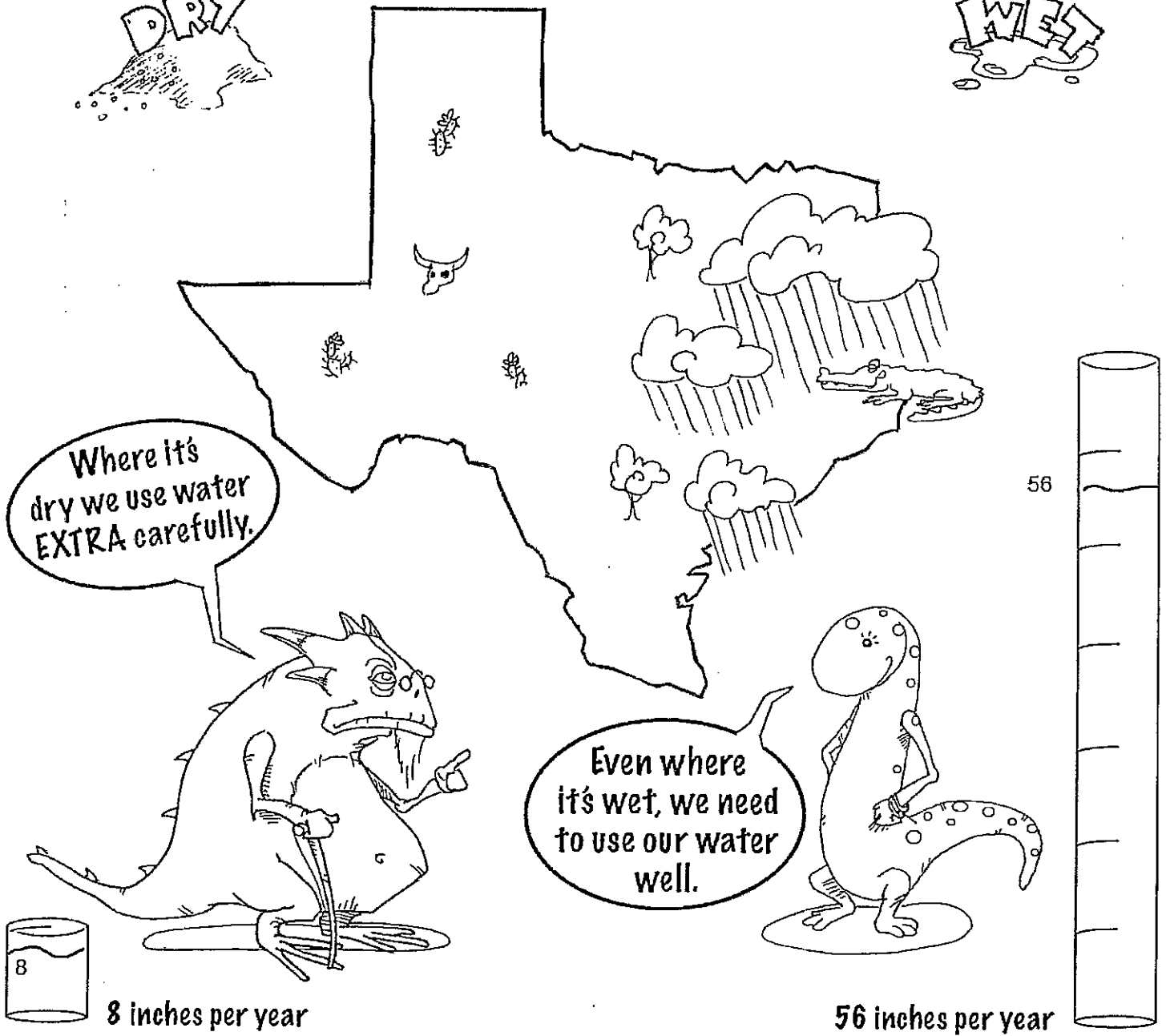




# Texas is both wet and dry

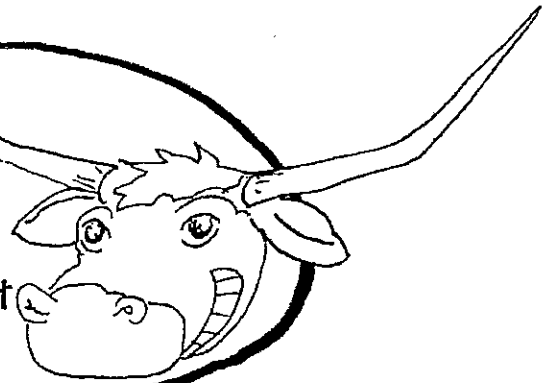
**DRY**

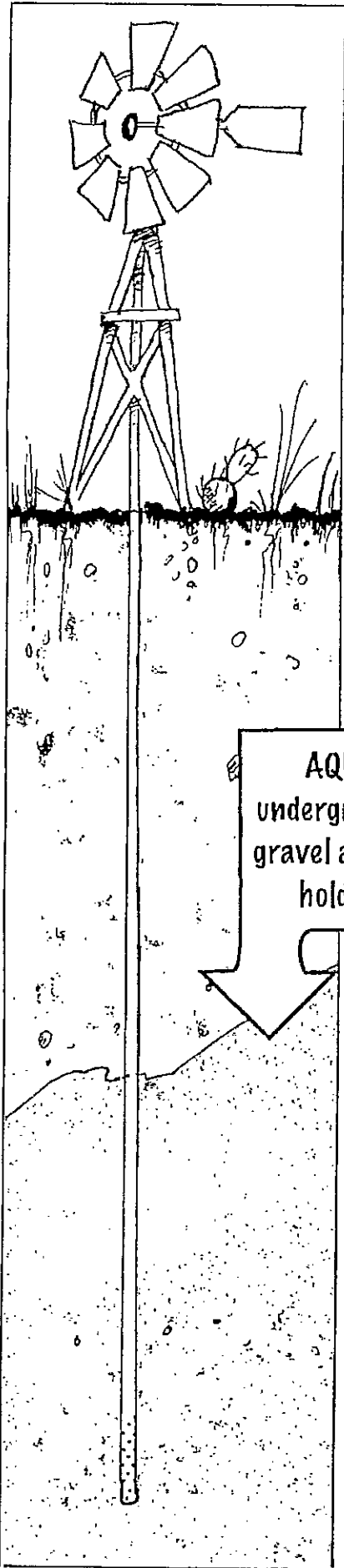
**WET**



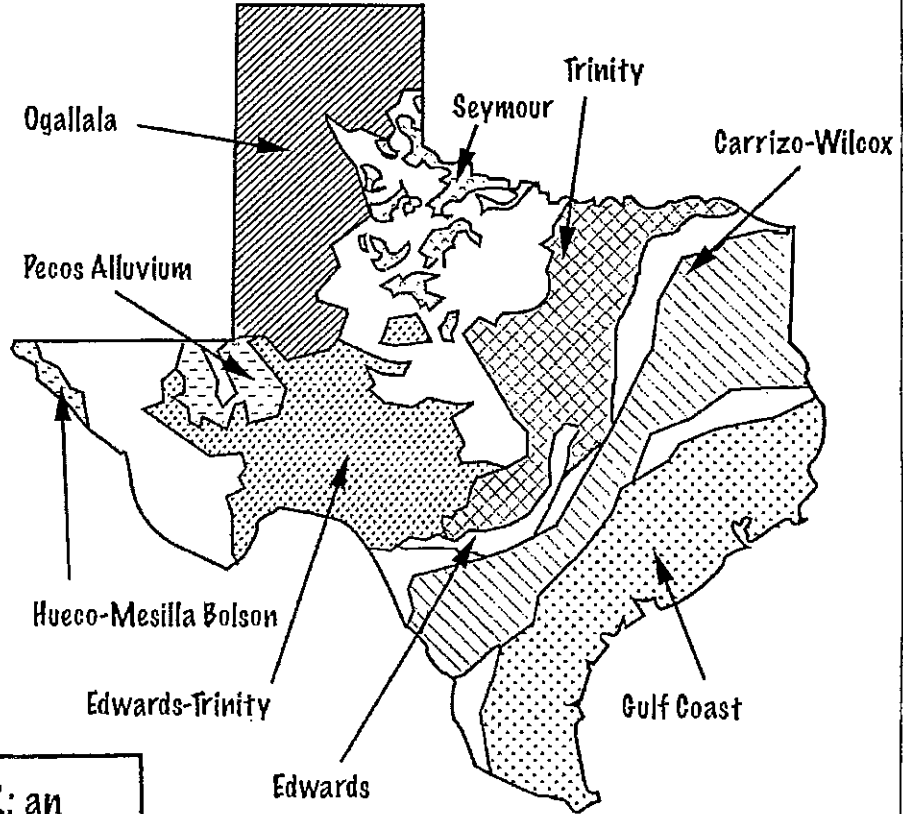
## A Fun Fact

Sometimes when it rains in Texas it REALLY pours. In three days of rain, the town of Alvin got flooded by 45 INCHES of rain. Even in drier West Texas, it can rain a lot, all at once.





## About half of Texas' water comes from aquifers

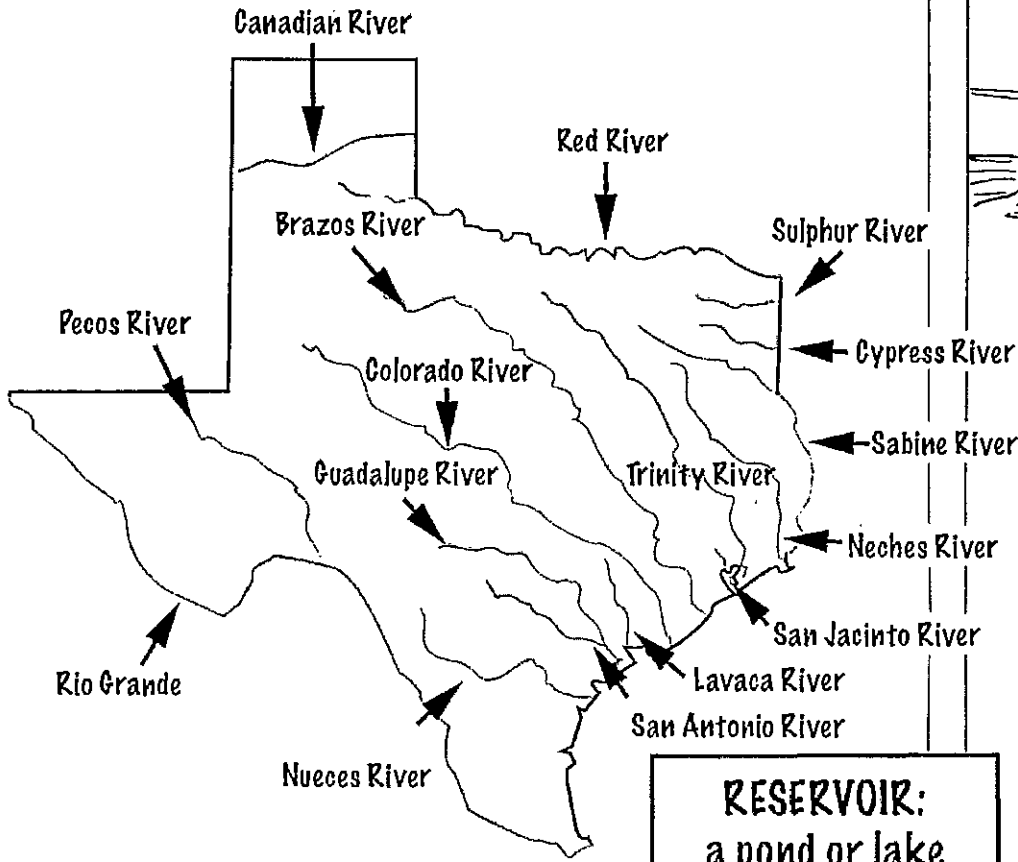


**AQUIFER:** an underground area of gravel and sand that holds water.

Find the names of aquifers in Texas

G O Z Q S K O Y R V P P J F R H R D Q P  
 B P V R I F P C Z C U V B V H T L D L E  
 U O S M Y D D E L N E B X N Y X I U D W  
 H S Y T N F S F C X G I R T A Q C X R S  
 X Q Z O Y K S E D O O U I N U A L Z L E  
 S H Y H K B S P Y M S N L V R F P L A Q  
 S O G A L L A L A M I A X F Q W G O G A  
 K C N H V X E Y S R O L L N C E U E S G  
 C N B S C B E Q T Z K U L L G O N L B Y  
 O S C K C Z V S S K Y T R J U L A N J K  
 M N G R X Q D K G T V O R L P V X S Z Y  
 K Z D W F R U Z P H M B L I T T I W T L  
 M G O N A I X E D W A R D S N G W U H R  
 N G S W U S Y J Z R P L O T X I J F M Y  
 U X D L G M W F K B I D O S O W T G A G  
 U E D C A R R I Z O W I L C O X C Y Y G  
 H U E C O M E S I L L A B O L S O N T E  
 D U J G S D N F Y K I L J Q C S K F C A  
 E Y V S K A Y Q Y P X Q M C J E P Q L Q  
 M D E F V M F Y J Q S I H D Z Q U M U C

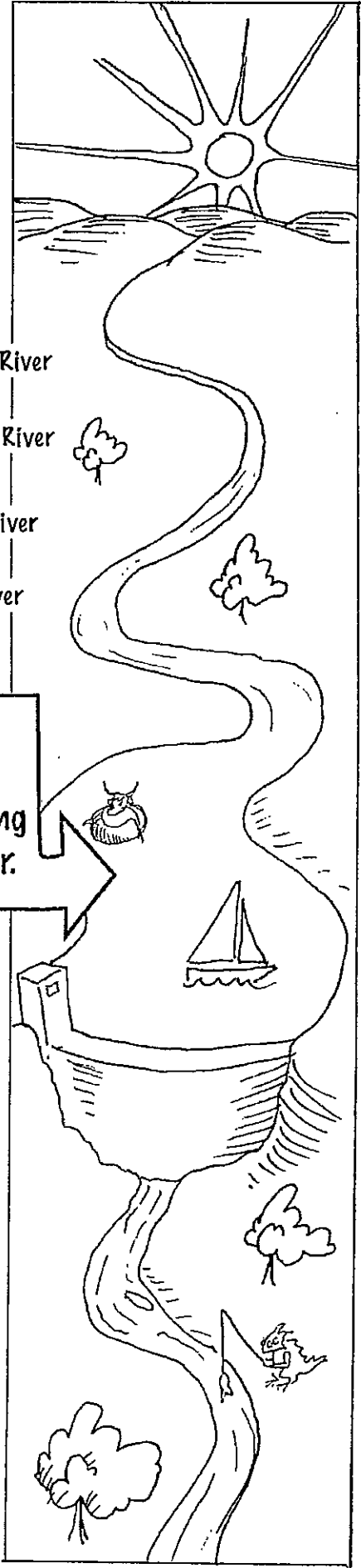
and the other half comes from our reservoirs and rivers.



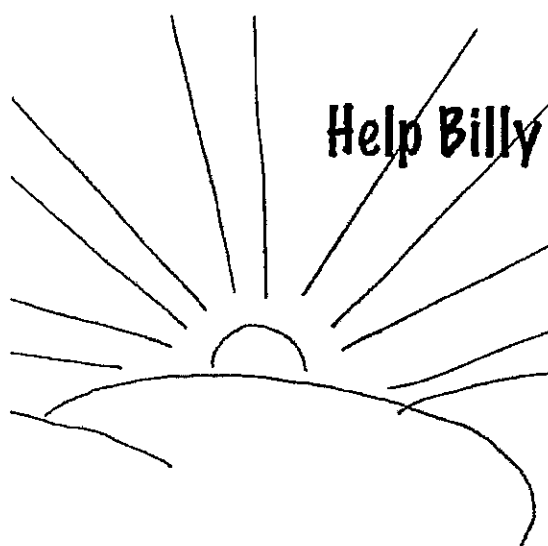
**RESERVOIR:**  
a pond or lake  
created by building  
a dam on a river.

Find the names of rivers in Texas

V A Y J T F U H N I T S N H X R A S Q F  
 S E A R N Q C J E S Z I S N W T V Q G O  
 Y G W B H V U W K R A D N U U F A H P T  
 S R B R A Z O S S R L N S T W E R U N T  
 T A I R Q O T G A J E S J F V Y C Q W A  
 A Y N O F U N S J B D D U A M Z N E F Z  
 Q O H A G A R F C U I X K L C U E E S P  
 L T C J N R V D J N T N I A P I G Y S A  
 H K G A A T A L E K E R E N M H N B X X  
 O X D Q N L O N D T H C I O A Y U T G E  
 I P L P G A B N D A R H H N T X K R O L  
 W G L T O U D V I E L C Q E I E Q Q Q S  
 J G Z A K V A I C O A P O P S T U V V W  
 D B Y O V P Y D A Y C J I L C X Y H G K  
 Z B P L U A E H A N P B C N O M B I X F  
 I W F V K U C C J L R R L B M R S R O V  
 T Q W I S F N A O H U R E L A O A J O N  
 F W S X T H Q L J S H P X S R T F D U L  
 U F U O J T K Y A N Z P E D S Z I M O Q  
 S X C T W K Q K A D F A B J K B Q Q R W

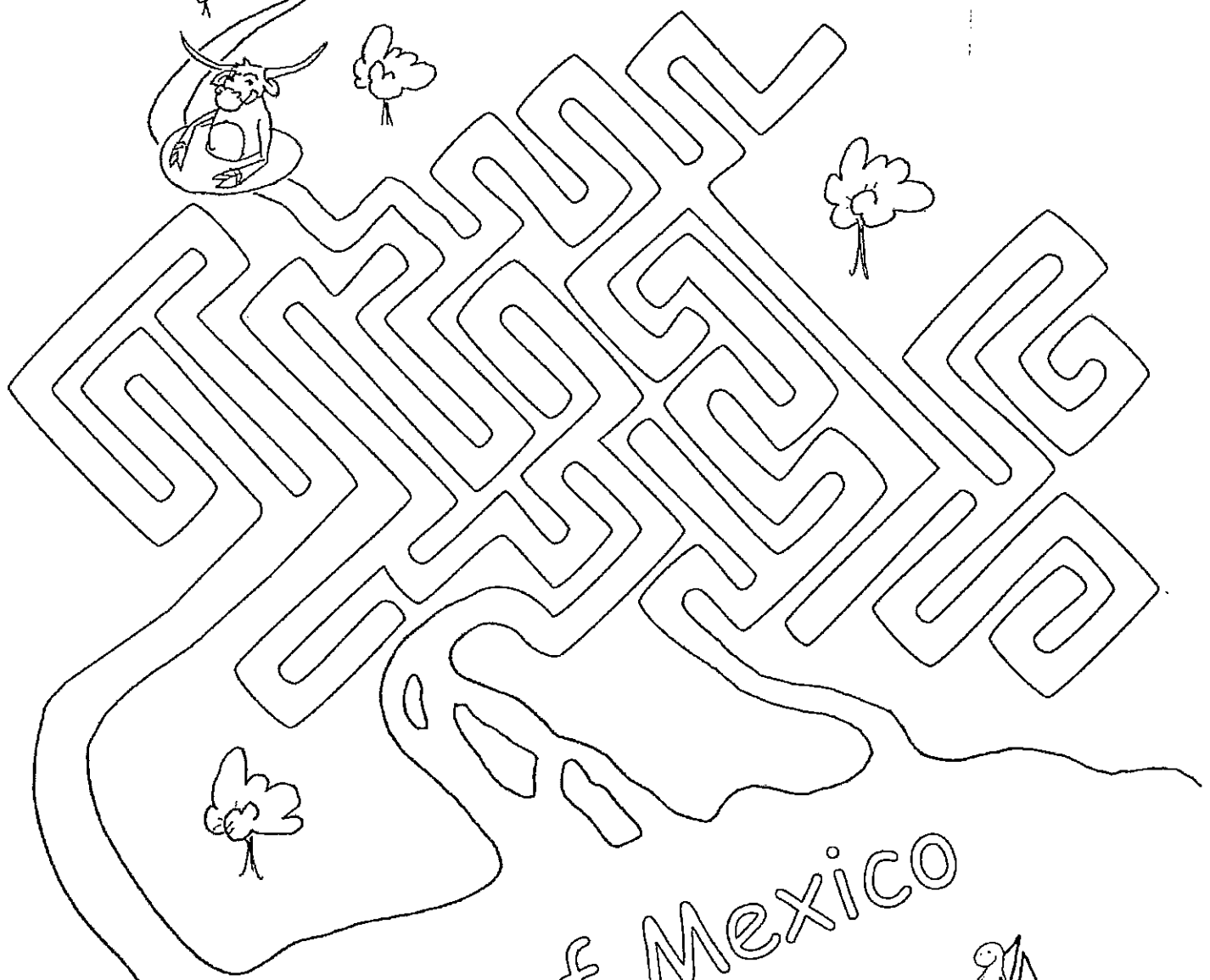


Help Billy find his way to the gulf



A Fun Fact

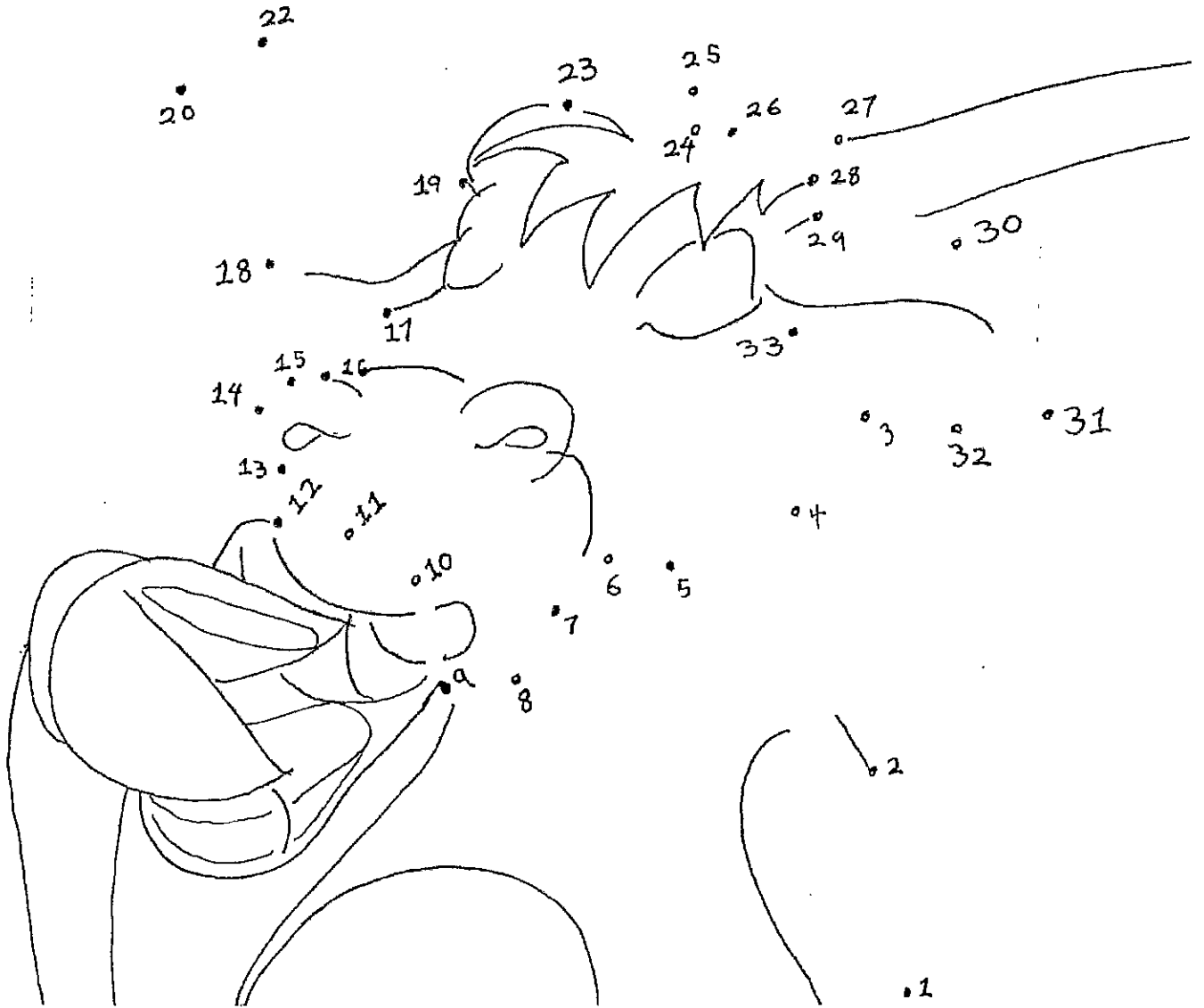
Rivers in Texas flow downhill to the Gulf of Mexico. It takes more than 37 days for one drop of water to travel the entire length of the Rio Grande.



Gulf of Mexico




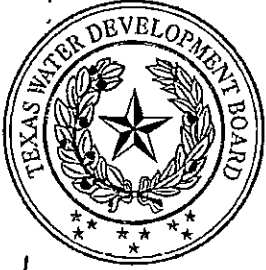
# Water is important for both humans and animals



**Fun Fact**

More than half of the human body (about 65%) is made of water. You can go for weeks without food, but only days without water.






# Know Your Water

For more information visit the Texas Water Development Board online at <http://www.twdb.state.tx.us/kids>

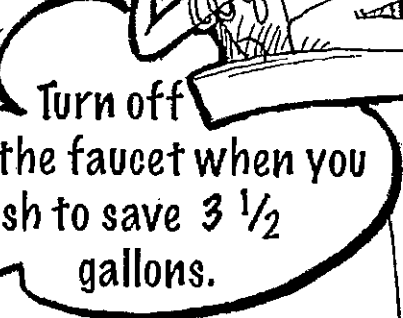
Water your lawn early in the morning or late in the afternoon so that the sun doesn't dry up the water before it reaches the lawn.




Color in this poster and put it on your wall to show how you



Take shorter showers.  
You can save 3 gallons for every minute.



Turn off the faucet when you brush to save 3 1/2 gallons.



Do not use the toilet as a trash can.

**your family can save 150 gallons of water every day!**

# Turn off the water while you brush your teeth

Does your toothbrush sometimes smell like hay?

Yeah, what's up with that?



Leaving the water on uses 4 gallons of water.

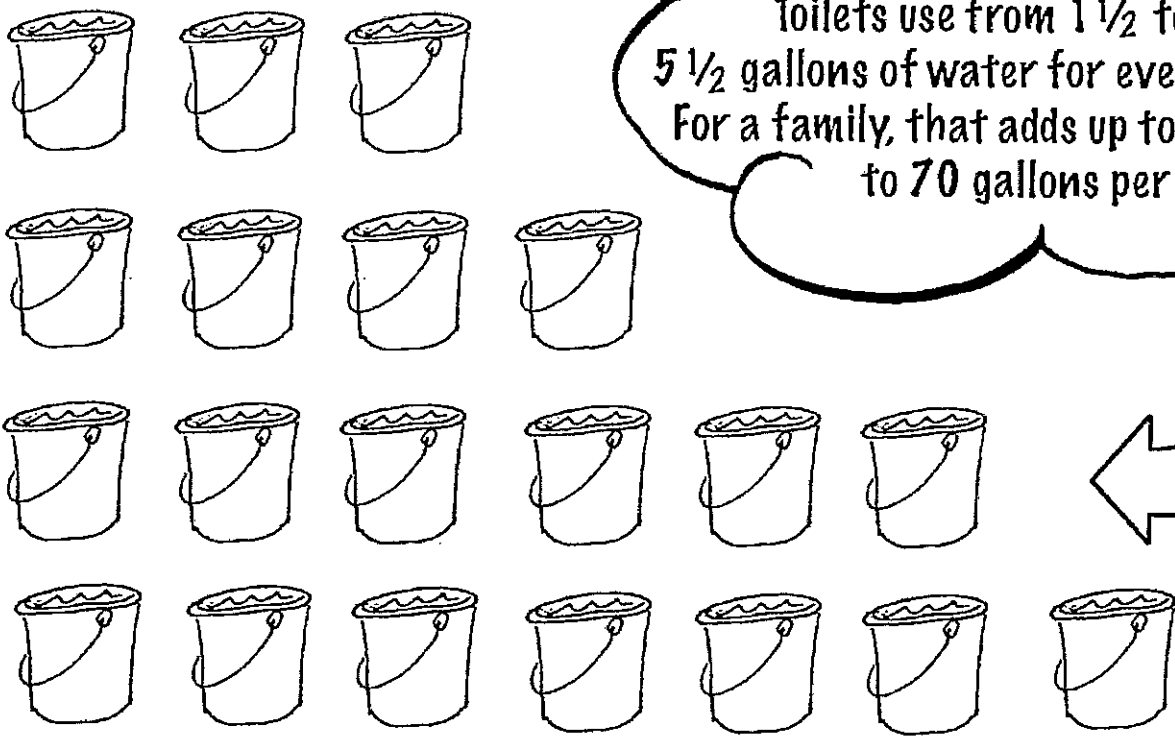
Turning the water off while you brush uses only  $\frac{1}{2}$  gallon.



# A toilet is not a trash can.



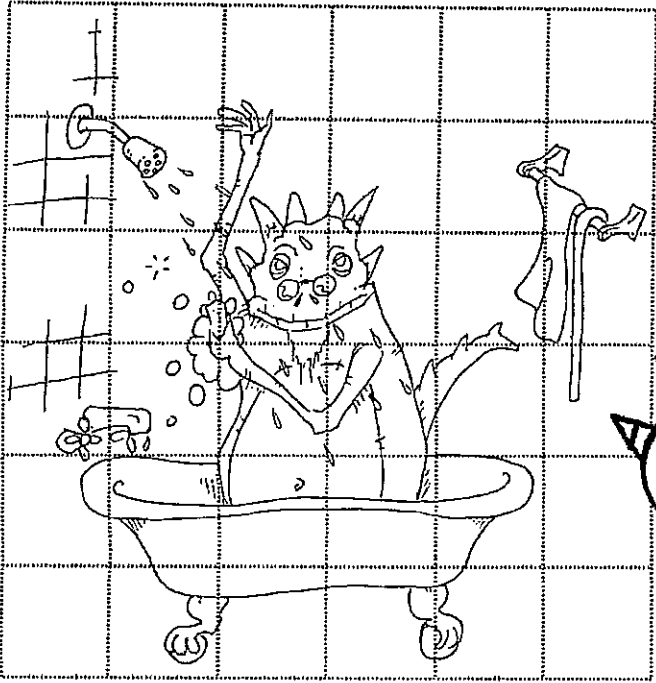
**A Fun Fact**  
Toilets use from 1 1/2 to 5 1/2 gallons of water for every flush. For a family, that adds up to about 20 to 70 gallons per day.



← 20 gallons

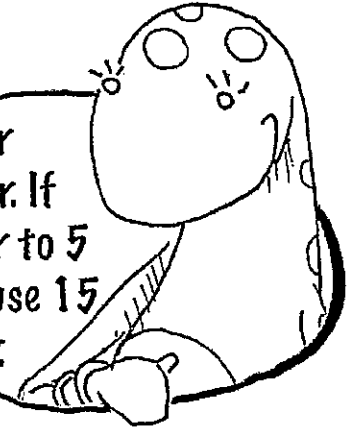
# Take shorter showers to save water

Draw a Water saving Shower

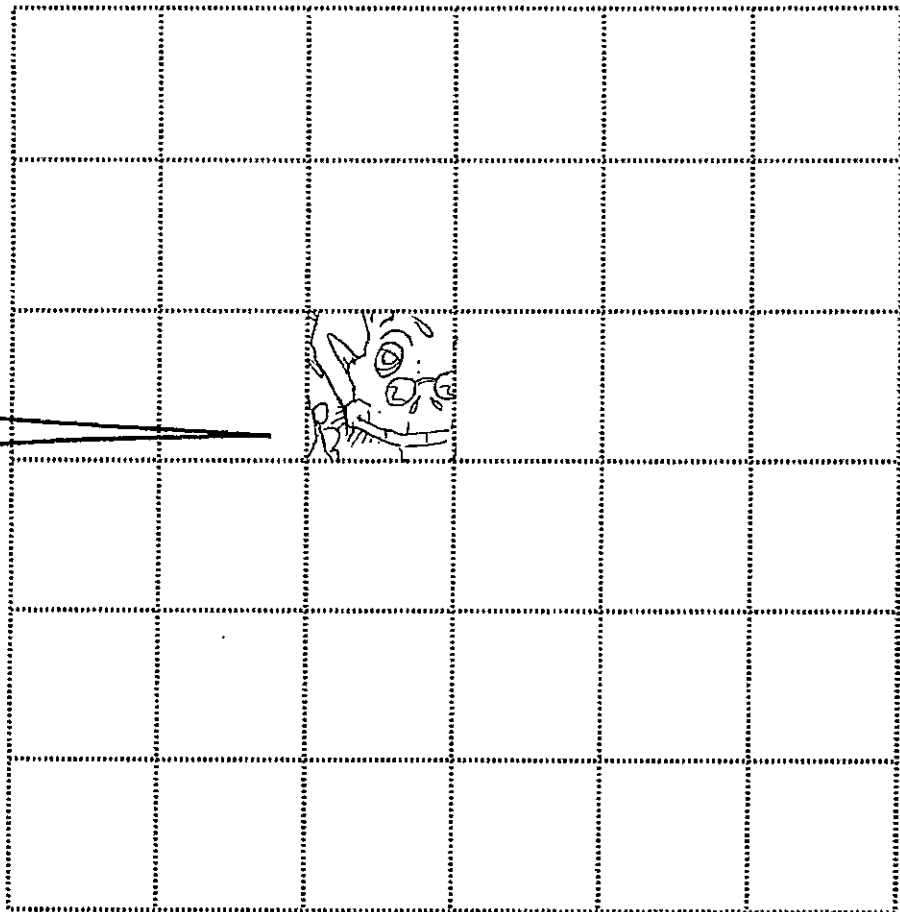


## A Fun Fact

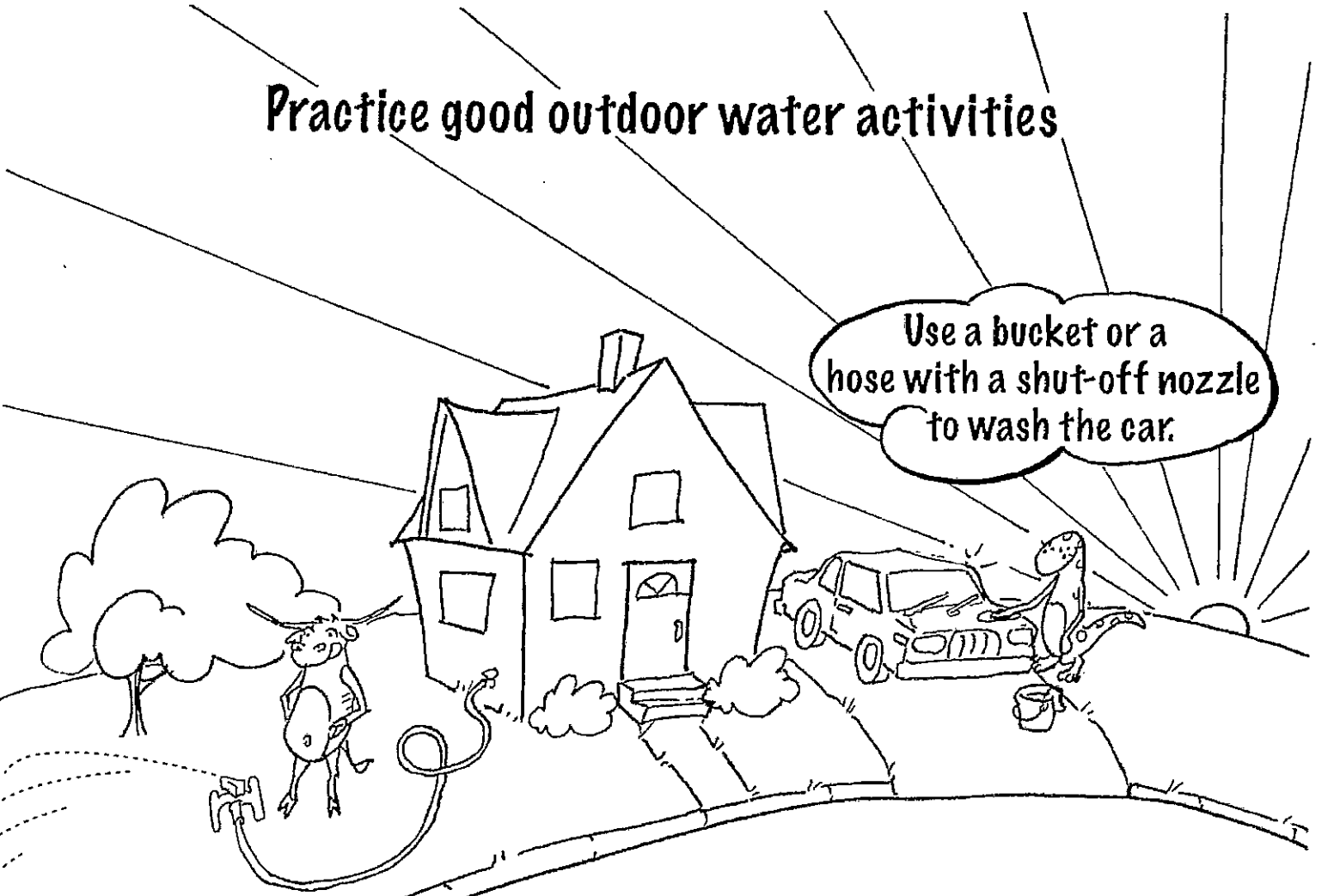
A 15 minute shower uses 45 gallons of water. If you shorten your shower to 5 minutes, you use 15 gallons of water.



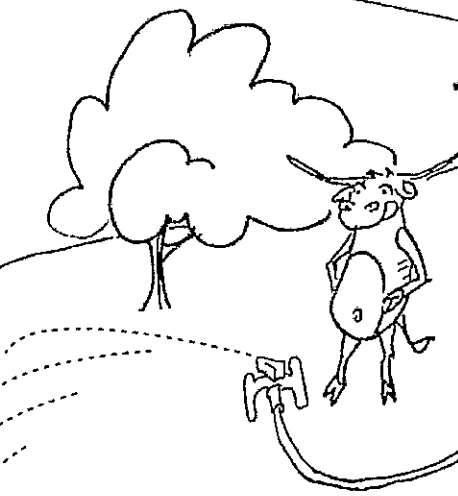
Back in my day an entire family would reuse the same water to bathe. That made it important to be the first in line to take a bath.




# Practice good outdoor water activities



Use a bucket or a hose with a shut-off nozzle to wash the car.



Nothing grows on the street or sidewalk—water just the plants.



Thanks for sweeping. Anything that goes down here flows into a river.

Use a broom to clean the driveway. Don't use a hose.



# Use what you have learned to fill in the blanks.

Water is important for people and animals because \_\_\_\_\_  
\_\_\_\_\_

In the bathroom I can save water by \_\_\_\_\_  
\_\_\_\_\_

I use water for \_\_\_\_\_  
\_\_\_\_\_

## Now write your own story about water. Here are some words you can use.

Reservoir

Toilet

Swim

Morning

Aquifer

Sink

Plants

Afternoon

Gulf of Mexico

Shower

Trash

Fish

Rio Grande

Drink

Brush

Boat

\_\_\_\_\_

\_\_\_\_\_

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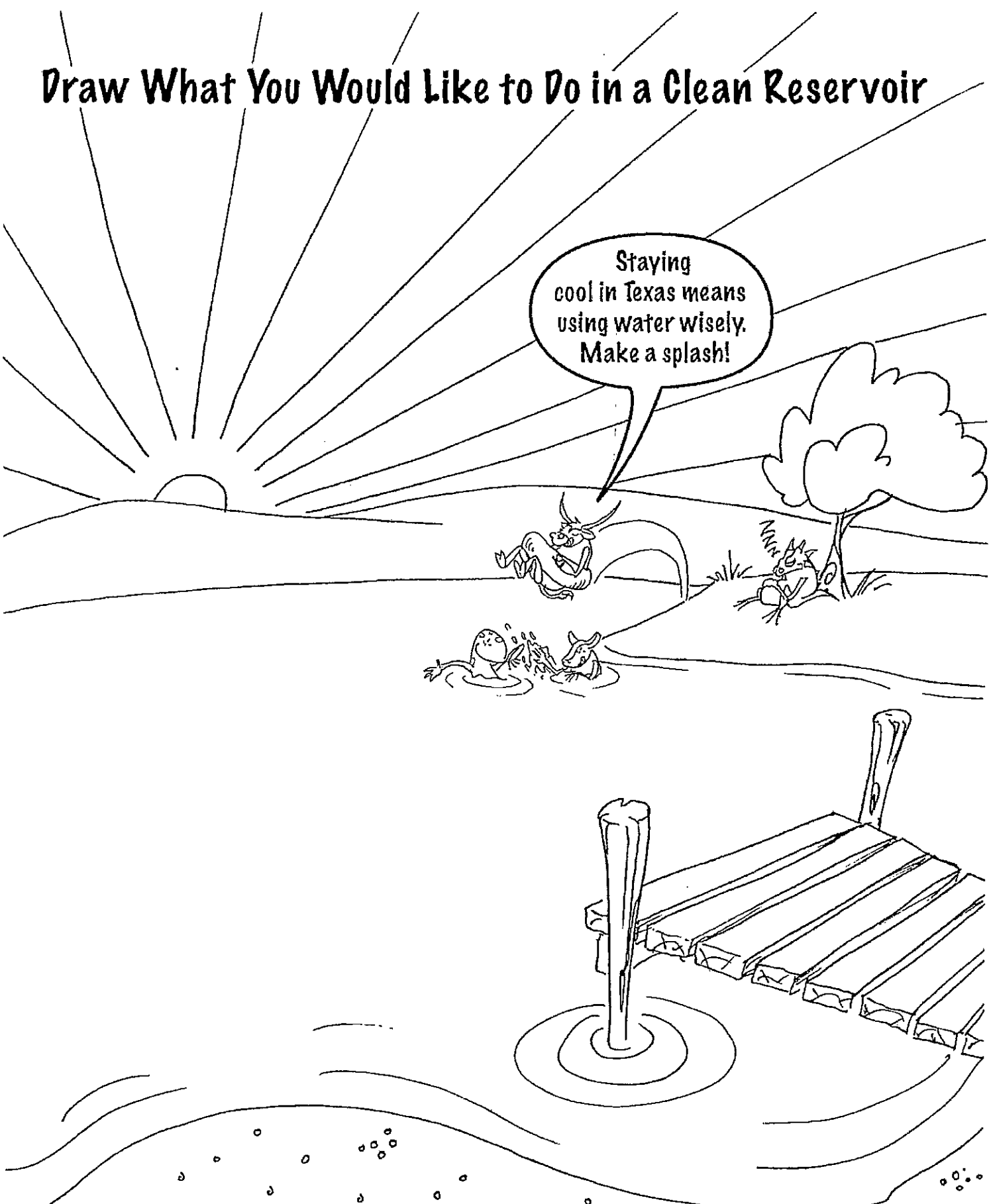
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Draw What You Would Like to Do in a Clean Reservoir

Staying cool in Texas means using water wisely. Make a splash!



Developed by the Texas Water Development Board  
and illustrated by Seth Mabbott  
with creative direction from Camille Fredin



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[ABOUT US](#)   [GET INFORMED](#)   [TAKE ACTION](#)   [PROGRAMS/EVENTS](#)   [KIDS CORNER](#)   [SHOP](#)


## Easy Ways to Conserve Water

### Don't Let It Run.

We have all developed the bad habit of letting the faucet run while wait for the shower to warm up, while we brush our teeth, or while wait for a cold glass of water. Keeping a pitcher of water in the refrigerator or turning the faucet off while we brush our teeth can save several gallons of water each day! It's simple really, before you turn on the tap, think of ways you can use less water to accomplish the same purpose.

### Fix The Drip.

There is no such thing as a little drip. A leaky faucet with a drip of just 1/16 of an inch in diameter (about this big -o-) can waste 10 gallons of water every day. You can turn off that drip by replacing worn washers or valve seats with the help of your parents. The silent leak. Even worse than the careless hand on the faucet is the silent toilet bowl leak, probably the single greatest water waster in homes. A leak of one gallon every 24 minutes—an average amount—totals 2.5 gallons per hour or 60 gallons per day! To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If the color appears in the bowl, then there's a leak. Often these leaks can be fixed with a few minor adjustments, cleaning calcium deposits from the toilet ball in the tank, or by replacing worn valves.

### Close The Hose.

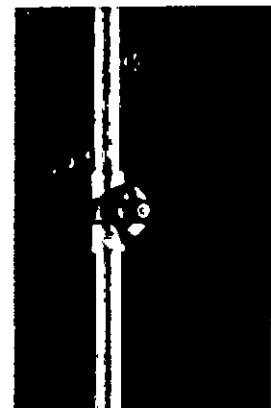
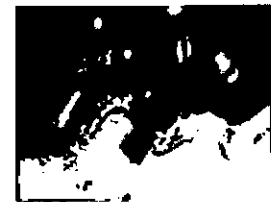
Letting the garden hose run faster or longer than necessary while we water the lawn or wash the car often becomes a careless and wasteful habit. A 1/2 inch garden hose under normal water pressure pours out more than 600 gallons of water per hour and a 3/4 inch hose delivers almost 1,900 gallons in the same length of time. If left on overnight, one garden hose can easily waste twice as much water as the average family uses in a month.

### Irrigate Wisely.

We have all seen the neighbor waters their lawn during an afternoon thunder storm. We have all seen the corner business whose whose automatic sprinkler system consistently over-waters causing sheets of water to flow across sidewalks and parking lots. Be wise, watch the weather and irrigate only during the cooler parts of the day (early morning or late evening). How do you know if you lawn requires water? Try the step test. If you walk across your lawn and the grass does not spring back up, then it's time to water. Most grass varieties require minimal watering (1/4 - 1/2 inches, once or twice a week). Set a small cup next to your sprinkler to measure the amount your particular sprinkler delivers.

### Check The Plumbing.

Proper maintenance is one of the most effective water savers. Faucet washers are inexpensive and take only a few minutes to replace. At home, check all water taps, hoses, and hose connections (even those that connect to dishwashers and washing machines) for leaks. Check the garden hose too—it should be turned off at the faucet, not just at the nozzle.



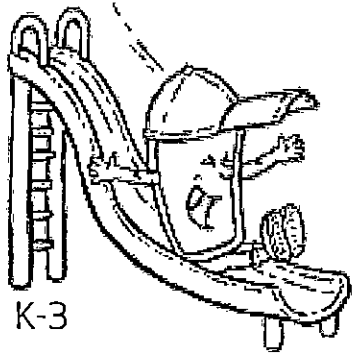
Take little steps each day to reduce the amount of water you use, by the end of the month it will become second nature.



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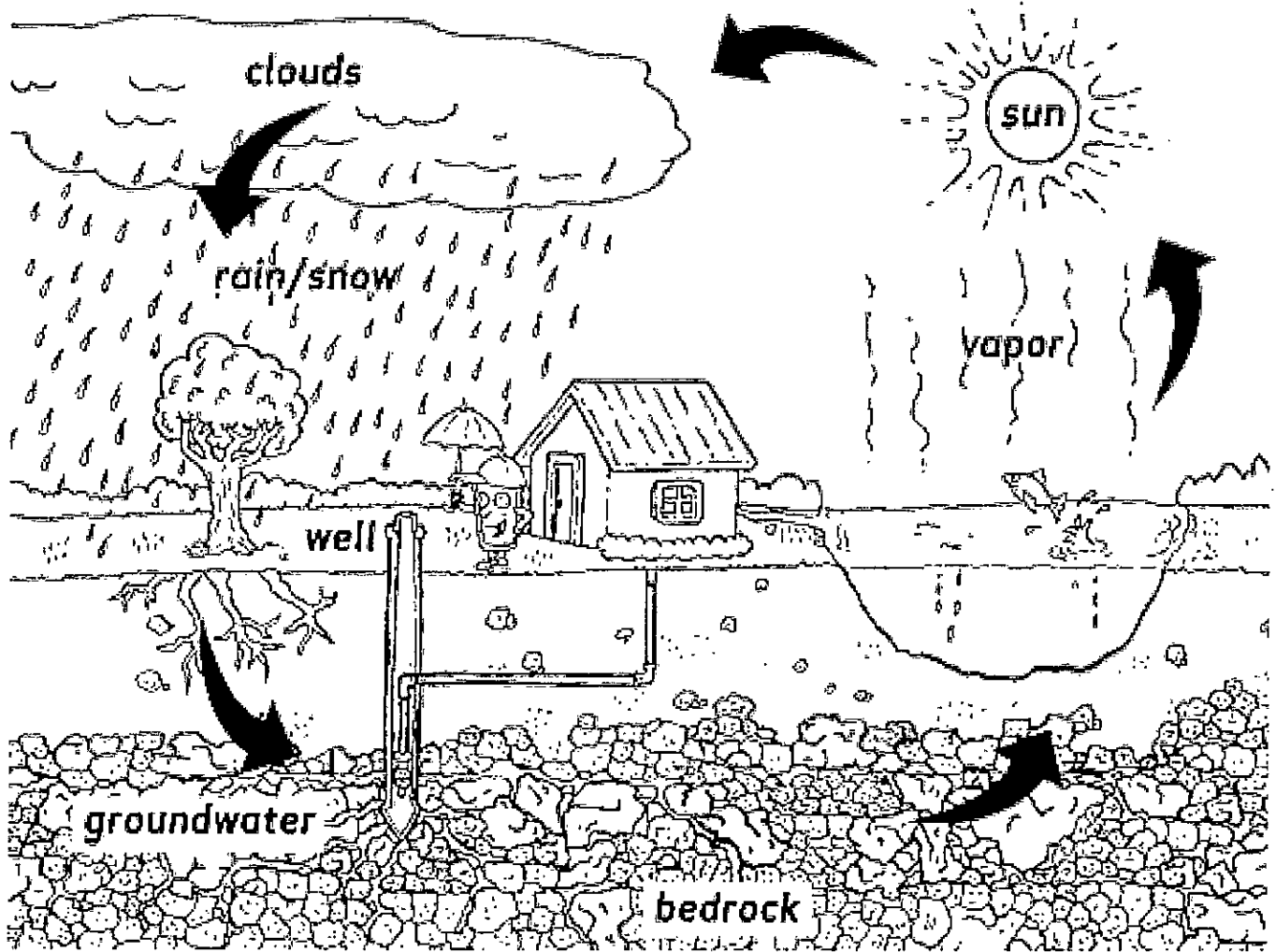
© 2009 The Groundwater Foundation.





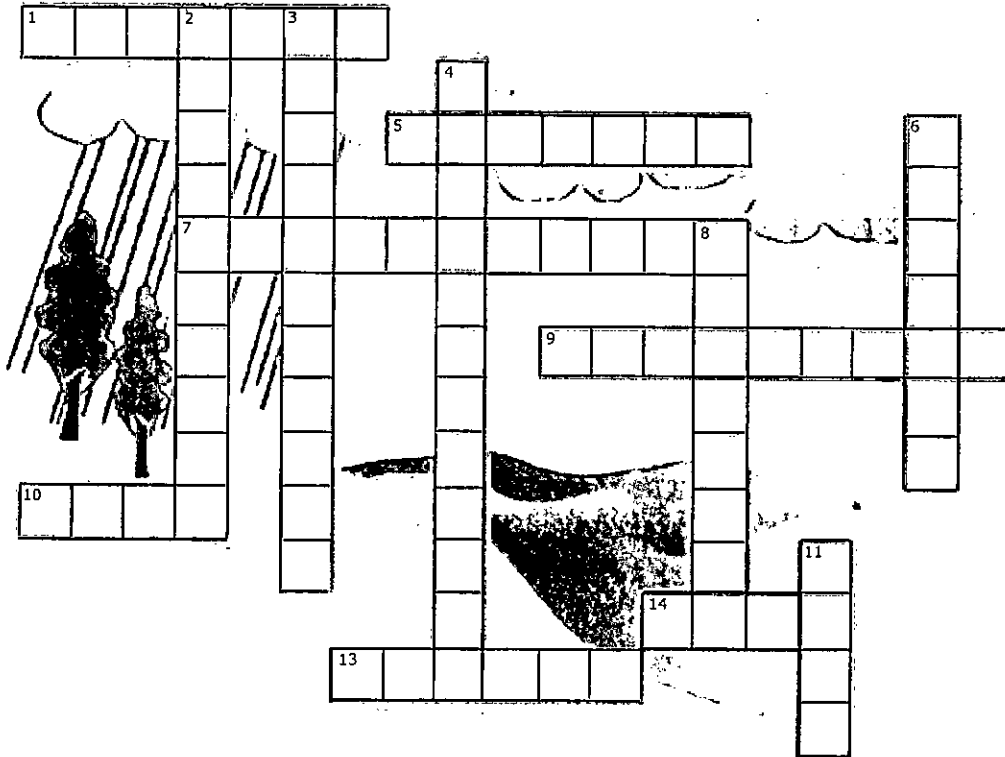
K-3

# Thirstin's Water Cycle Adventure



# Water Cycle Crossword

From The Groundwater Foundation. Learn more at [www.groundwater.org](http://www.groundwater.org).



## ACROSS

1. Layers of soil, sand and rocks that store groundwater.
5. To contaminate, to become unclean.
7. Water that is found underground in the cracks and spaces in the soil, sand and rocks.
9. Groundwater leaves the ground and enters a lake or stream in a \_\_\_\_\_ area.
10. An example of precipitation.
12. A pipe in the ground that is used to remove water from an aquifer.
13. Water on the earth's surface which moves into a lake or stream without absorbing into the soil.

## DOWN

2. The largest use for groundwater is \_\_\_\_\_.
3. The stage of the water cycle when water changes from a liquid to a vapor.
4. Clouds are an example of this.
6. A long period of dry weather could cause a \_\_\_\_\_.
8. Part of the water cycle when water soaks into the soil.
11. The movement of water underground is called groundwater \_\_\_\_\_.

# Water Cycle Crossword

From The Groundwater Foundation. Learn more at [www.groundwater.org](http://www.groundwater.org).

## ANSWER KEY

### ACROSS

1. aquifer
5. pollute
7. groundwater
9. discharge
10. rain
12. well
13. runoff

### DOWN

2. irrigation
3. evaporation
4. condensation
5. drought
8. recharge
11. flow



## Try This At Home

### Aquifer In A Cup

#### Objective

Groundwater is water that is found underground in the spaces and cracks between soil, sand and gravel. Often hidden from view, in this activity you will "see" what groundwater looks like and learn some basic groundwater vocabulary.

#### Materials Needed

- 2 clear cups
- Sand, gravel and aquarium rock
- Pitcher of water

#### Vocabulary

groundwater, aquifer, surface water, contamination, water table, saturation zone, infiltration, recharge, porosity, permeability (view [Groundwater Glossary](#))

#### Procedure

1. Fill 2 cups with layers of sand and gravel to about 3/4 from the top of each cup. Remember that in nature, aquifers consist of layers of sand, gravel and rock.
2. In one of the cups, pour water slowly into it. Watch how the water fills the spaces between the particles of sand and gravel. Does the water appear to move faster through the sand or faster through the gravel? Why?
3. Now continue to fill this cup with water to the top (above the top of the sand and gravel). Water that is located above ground, like rivers and lakes, is called surface water. Water below the ground's surface is called groundwater.
4. In the second cup, slowly pour water into the cup until the water line is about one inch below the top of the sand/gravel. Look closely at this line created by the water. This line is called the water table. Water below the water table is called the saturation zone.
5. Now pretend that your pitcher of water is a large rain cloud and pour some more water into your second aquifer until the water table is about one half an inch below the surface of the gravel. Your groundwater supply has just been recharged. This is what happens when it rains or snows and water infiltrates (or sinks) into the ground.

#### Optional Extensions

1. Use liquid food coloring or powdered drink mix to represent a source of groundwater contamination. Sprinkle or pour the contamination on the surface of the gravel. Sprinkle water (to represent rain) on top of the gravel and contaminant. Observe and discuss what happens.



# Groundwater Word Search

The Groundwater Foundation. Learn more at [www.groundwater.org](http://www.groundwater.org).

A	G	V	E	A	W	A	I	O	N	C	D	R	O	U	G	H	T	Q	R
G	F	S	D	R	J	H	B	K	E	S	R	U	C	Y	T	Z	M	A	L
P	R	E	C	I	P	I	T	A	T	I	O	N	V	D	Y	A	N	S	W
T	Z	O	N	S	I	B	M	L	U	A	P	O	N	A	R	Q	D	D	P
O	M	H	U	F	E	S	C	I	D	N	L	F	S	P	B	I	U	F	E
E	W	O	K	N	E	A	P	D	O	G	A	F	U	E	L	U	N	J	R
R	X	P	J	B	D	N	F	R	T	B	M	T	X	O	E	N	F	K	M
C	G	T	W	Y	U	W	B	S	I	E	C	J	M	I	B	G	R	N	E
A	U	I	E	E	N	K	A	L	C	N	O	I	I	E	W	Q	V	H	A
N	J	O	L	L	A	I	D	T	A	W	G	E	R	K	O	P	G	K	B
K	P	U	L	N	S	W	L	I	E	R	Y	D	R	O	T	E	H	L	L
I	O	N	Y	W	G	S	A	T	U	R	A	T	I	O	N	Z	O	N	E
E	L	Z	A	R	G	D	A	T	E	N	M	G	I	J	R	L	M	Y	
V	L	C	B	L	S	L	I	B	B	A	S	H	A	A	R	G	C	S	B
E	U	D	R	E	C	H	A	R	G	E	I	S	T	Q	U	K	A	E	C
U	T	A	X	O	J	V	C	H	S	E	F	P	E	M	U	L	R	L	S
O	I	C	O	N	D	E	N	S	A	T	I	O	N	S	T	I	H	Y	Z
T	O	J	R	M	O	K	S	C	O	T	E	Q	F	R	C	H	F	U	J
S	N	P	I	E	V	A	P	O	R	A	T	I	O	N	J	U	Q	E	M
J	C	L	K	N	E	Q	U	F	M	W	O	M	A	E	L	T	B	S	R

aquifer  
condensation  
drink  
drought  
evaporation  
fuel  
groundwater  
irrigate

permeable  
pollution  
precipitation  
recharge  
runoff  
saturation zone  
spring  
well

Groundwater Conservation District  
(361) 579-6863

Imperial  
Waterpower



## Registration Concepts

**Exempt Well:** a well that is used solely for domestic purposes or for providing water for livestock, poultry or personal recreational use that is drilled, completed, or equipped so that it is incapable of producing more than 28,800 gallons (20 gpm) of groundwater per day; or a well otherwise exempt under the provisions of Section 36.117, Water Code.

**Non-Exempt Well:** a water well that is not an "Exempt Well" requiring a permit authorizing groundwater production.

**Grandfathered Well:** a well that existed prior to the original adoption of the District rules (Oct. 3, 2008) and is not abandoned. The well is not subject to the spacing requirements of the District. Grandfathered wells are either an exempt well or non-exempt well. Wells drilled after Oct. 3, 2008 are considered new wells and are not grandfathered.

**Validation of Historic Use:** the process of obtaining a validation permit authorizing groundwater production for a specific quantity for a specific purpose of use based on evidence of such production during the District's validation period (Jan. 1, 1990 to Oct. 3, 2008).

## Frequently Asked Questions about Water Well Registration

**Why does VCGCD wish to register water wells in Victoria County?** The registration of water wells directly supports the District's efforts to achieve its mission to conserve, preserve, protect and prevent waste of Victoria County's groundwater resources.

**What are the benefits of registration to the well owner?** The benefits include: proper offset of new wells; improved communication between the District and well owners; and opportunity to participate in the District's programs.

**Does VCGCD require all water wells to be registered?** No. Registration of grandfathered exempt wells is voluntary. Registration is required prior to production of groundwater from a non-exempt well.

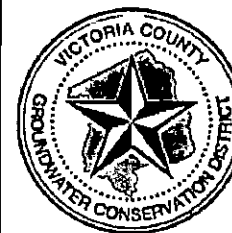
**Does VCGCD require meters on wells?** No. Under no circumstances are meters required. However, groundwater production from non-exempt wells must be reported accurately. Operators of non-exempt wells may choose to use meters for reporting purposes or other adequate measuring techniques.

**Does VCGCD charge a fee to register water wells?** No. The VCGCD Board has explicitly set a \$0.00 fee for well registration.

**Does VCGCD require extensive documentation about a well for it to be registered.** No.

**Does VCGCD allow existing wells to be used as they were in the past (Historic Use)?** Yes. See Validation of Historic Use.

**Does VCGCD grandfather wells that existed prior to the district being formed?** Yes. Primarily applies to well spacing requirements.



VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION  
DISTRICT

# Water Well Registration

In order to protect historic groundwater use, to grandfather well spacing of existing wells, and support aquifer management activities, the District has implemented a water well registration and validation program. Through this program, the District will develop a water well inventory of water wells within Victoria County.

Office Address:

**Victoria County Groundwater  
Conservation District  
Dr. Patti Dodson Health Center  
2805 N. Navarro St., Suite 210  
Victoria, Texas 77901**

Phone: 361-579-6863  
FAX: 361-579-0041  
E-mail: [admin@vcgcd.org](mailto:admin@vcgcd.org)

**WWW.VCGCD.ORG**

# Information about Water Well Registration in Victoria County, Texas

## Exempt Water Wells

Registration of grandfathered exempt wells is voluntary and can be achieved by submitting basic information about the well to the District. In particular, the registration application must include the well owners name, mailing address, well address/location, and the number of wells being registered at that location. Optional information about the well construction such as well casing data, screening depth, pump size can be submitted and will aid the District in developing county-level pumping estimates and selection of wells for inclusion in the District's monitoring programs. (Participation in District monitoring programs is voluntary.) Registration of grandfathered exempt wells is voluntary and applied for by submitting the following form: **Application to Register a Water Well.**

Registration of new exempt wells is mandatory and applied for by submitting the following form: **Application to Register a Water Well.**

After the District completes its processing of the registration application, the District will generate a well registration certificate that documents the well ID, owner name, and exempt status. A copy of the certificate is archived at the District's office and can be obtained by request.

## Non-Exempt Water Wells

Registration of grandfathered non-exempt wells is required and should be initiated prior to groundwater production for non-exempt uses. The information required for registering non-exempt wells is more detailed. In particular, the identification of the well's precise location (i.e. GPS coordinate) is required. Additional information, if known, should be submitted on the application as well. Registration of grandfathered non-exempt wells is applied for by submitting the following form: **Application to Register a Water Well.**

Registration of new non-exempt wells is mandatory and applied for by submitting the following form: **Application to Register a Water Well**

After the District completes its processing of the registration application, the District will generate a well registration certificate that documents the well ID, owner name, and authorized use. A copy of the certificate is archived at the District's office and can be obtained by request.

After the registration process is complete, the production permitting process will be initiated.

## Historic Use Validation

Grandfathered non-exempt wells are eligible for validation of historic use. The successful completion of the validation process results in the District approving a validation permit. The validation permit documents and authorizes future production (pumping) of groundwater in a specific amount for a specific use from specific wells. (Groundwater production from non-exempt wells must be authorized by either a validation permit or an operating permit.) Validation of historic use is applied for by submitting the following form: **Application to Validate Historic Use.**

In addition to the information required to register the non-exempt well such as well owner information, well location, well construction information, the applicant seeking validation of historic groundwater production must submit evidence supporting the applicant's claim regarding the amount of groundwater pumped historically and the purpose of its use.

The VCGCD Board, after a public hearing, will determine the appropriate conditions for the validation permit including the authorized annual production amount and purpose of use.



<b>Name and Mailing Address:</b>
<b>Phone Number:</b>
(     )     —
<b>Email Address:</b>
<b>Comment / Question / Request:</b>
<p>Please submit this portion of the brochure to:  Victoria County Groundwater Conservation District  2805 N. Navarro St., Ste. 210, Victoria, Tx 77901</p>

The Victoria County Groundwater Conservation District is a political subdivision of the State of Texas created by the Texas Legislature in 2005 (Special District Local Laws Code Chapter 8812 ) and was confirmed by 73 percent of the voters in November 2005.

The District funds its operation through the collection of a small ad valorem tax. The fiscal year 2012-2013 tax rate was set at 0.915 cents per \$100 taxable value by the VCGCD Board of Directors.

The VCGCD Board of Directors is comprised of locally-elected board members - one member from each county precinct as well as an at-large member.

**VCGCD Board of Directors:**

Precinct 1:	Mr. Jerry Hroch
Precinct 2:	Mr. Thurman S. Clements, Jr.
Precinct 3:	Mrs. Barbara Dietzel
Precinct 4:	Mr. Mark Meek
At Large:	Mr. Kenneth Eller

**VCGCD Staff:** The District employs two staff members to carry out the district operations.

General Manager:	Mr. Timothy Andruss
Admin. Assistant:	Mrs. Donna Yanta
Field Technician:	Mr. Tim Faltysek



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION  
DISTRICT**

# District Overview

Working to conserve, preserve, protect, and prevent waste of groundwater resources within Victoria County for the benefit of Victoria County's landowners, citizens, economy, and environment.

Office Address:  
**Victoria County Groundwater  
Conservation District  
Dr. Patti Dodson Health Center  
2805 N. Navarro St., Suite 210  
Victoria, Texas 77901**

Phone: 361-579-6863  
FAX: 361-579-0041  
E-mail: admin@vcgcd.org

**WWW.VCGCD.ORG**

# Victoria County Groundwater Conservation District Activities

## Management Plan & District Rules

Since the formation of the District, the District's directors, staff, and consultants have worked with local stakeholders to gather input regarding the management and rules of the District. In October 2008, the VCGCD Board of Directors approved the District's first management plan and adopted the first set of rules.

The District's management plan and rules can be downloaded from the following web addresses:

[www.vcgcd.org/index.html](http://www.vcgcd.org/index.html)

[www.vcgcd.org/forms-and-rules.html](http://www.vcgcd.org/forms-and-rules.html)

## Well Registration and Validation of Historic Use

In order to protect historic groundwater use, to grandfather well spacing of existing wells, and support management activities, the District has implemented a water well registration and historic use validation program.

Registration of grandfathered exempt wells (see District Rules for Exempt Well Definition) is voluntary and is a simple and free process of indicating where the water well is located. Registration of an exempt well is accomplished by submitting the following form: **Application to Register a Water Well.**

Registration of non-exempt wells (see District Rules for Non-Exempt Well Definition) is not voluntary. With the registration of these wells, applicants are able to request validation of historic use. Registration of a non-exempt well is accomplished by submitting the following forms: **Application to Register a Water Well and Application to Validate Historic Use.**

## Water Well Permitting

The District, through the adoption of the District rules, requires new water wells to be permitted prior to drilling and in some instances prior to operation. Generally speaking, if a new well will be used for non-exempt uses or is drilled, constructed, or equipped to produce more than 28,800 gallons per day, then an operating permit is required prior to pumping the well.

## Regional Planning

The State of Texas relies on regional water planning efforts to coordinate the water planning activities of Texas. The District actively participates in the regional planning efforts.

The District is completely contained within Groundwater Management Area 15 (GMA 15) and is one of the voting members of GMA 15. GMA 15 adopted a Desired Future Condition (DFC) for the Gulf Coast Aquifer on July 14, 2010. The DFC is stated as follows:

*"An average drawdown of the Gulf Coast Aquifer*

*within the GMA 15 boundary of 12 feet relative to year 1999 starting conditions in accordance with Table 7 of GAM Run 10-008 Addendum."*

The Texas Water Development Board established the Modeled Available Groundwater (MAG) for GMA 15 in report GAM Run 10-028 MAG. The MAG for Victoria County was computed to be 35,694 acre-feet per year.

In addition, the District is a voting member of the South Central Texas Regional Planning Group (Region L). Region L is currently developing the Regional Water Plan which identifies the water management strategies to be used to match available water supplies to future water needs within the Region L boundary.

## Monitoring & Studies

The District conducts water quality and water level monitoring activities as well as sponsors hydrogeologic studies of the aquifer.

## District Meetings

The District holds monthly meetings which are open to the public. The meetings are scheduled for the 3rd Friday of each month. Meeting agendas are published in advance on the District website.

[www.vcgcd.org/meetings.html](http://www.vcgcd.org/meetings.html)

# The Texas Manual on Rainwater Harvesting

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**Texas Water Development Board**

**Third Edition**



**Texas Water Development Board  
Report 362**

**Water Conservation Implementation  
Task Force**

**Water Conservation  
Best Management Practices Guide**

November 2004

***Appendix C***  
***Technical Evaluation Procedures for***  
***Edwards Aquifer Recharge Enhancement***

**Victoria County Groundwater  
Conservation District  
Water Conservation Education Program  
2010 - 2011**

**Final Project Report:  
Water Analysis in Victoria County  
Victoria West High School  
Submitted by Denise Andruss  
Aquatic Science Instructor**



## **Water Analysis in Victoria County**

Denise Andruss, Victoria West High School

Joint Project of Victoria County Groundwater Conservation District and Victoria Independent School District

Subject: Aquatic Science

Grade Level: 11th - 12th Grade

Time Frame: approximately two weeks of instruction on a block schedule

### **Objectives:**

The student will describe the unique characteristics and structure of water molecules.

The student will construct water molecules.

The student will analyze water samples.

The student will compare the quality of groundwater samples collected throughout Victoria County.

The student will describe types and sources of water pollution.

The student will explain the effects of contaminants on groundwater.

The student will understand the importance of protecting groundwater resources.

### **Alignment with VCGCD Goals:**

Goal 1: Develop and maintain a Groundwater Conservation Education Program including the development of educational materials, distribution of grants, provide speakers and presentations, and participate in community events.

Goal 2: Develop educational materials and activities related to groundwater conservation in Victoria County.

### **Description of Project:**

This focus of this project is to evaluate the quality of groundwater at a variety of sites and sources throughout Victoria County. The introduction to the project consists of an indepth look at point and nonpoint source pollutants and their effect on water sources. Included with this is a detailed study of water including its unique properties and characteristics. This will be accomplished through experiments focusing on the structure and behavior of water molecules. The concepts taught will be expanded and strengthened through the use of 3-D water molecule

kits. This is an important component of the unit as the structure and properties of water directly relate to the process of contaminant transport.

The next phase of the project will focus on groundwater flow within an aquifer. Through the use of a Groundwater Exploration Activity Model, students will be able to visualize the structure and flow that occurs in aquifers. Students will “pump” wells and use dyes to simulate the contamination of a groundwater source. This will help them to understand how pollution directly affects the quality of groundwater.

The last phase of my project will involve the testing of water samples from a variety of well sites throughout Victoria County. Water samples will be collected from wells at different locations in Victoria County. Students will then test the water for alkalinity, ammonia, chlorine, chromium, copper, dissolved oxygen, hardness, iron, nitrate, pH, and phosphate. The students will then analyze test results and compare water quality from the various sites.

### **Overview of Unit Lessons:**

#### ***Lesson 1: Water Quality Factors***

Time Frame: 1 class period (90 minutes)

Materials: Packets from GBRA website describing pollution sources, student handout

- 1) Introduction: Class discussion on point and nonpoint pollution and examples of each.
- 2) Water Quality Factors Guided Reading: Students work in pairs to go through packets and answer questions on pollution and sources.
- 3) Pollution Source Evaluation: After completing packets, student pairs use the information to evaluate the pollution sources and decide which are the most damaging to water resources.
- 4) Assessment: Student handout. Justification of pollutant evaluations

#### ***Lesson 2: Properties of Water***

Time Frame: 1 class period (90 minutes)

Materials per lab group: penny, dish soap, pipette, paper towels, ice tray, water with red food coloring, molecular model kits depicting water



- 1) Introduction: Review properties of water including surface tension, cohesion, polarity, molecular structure of water, bonding of water molecules, bimolecular, density, solubility
- 2) Lab: Students work through the various lab stations to explore some of the unique properties of water. Molecular models are used to demonstrate the structure and chemical behavior of water molecules. Discussion questions at the end of the lab are designed to tie the material into groundwater protection.
- 3) Evaluation: Lab handout. Discussion water properties and relationship to contamination. Discussion on importance of protecting groundwater resources

### ***Lesson 3: Groundwater Exploration Activity Model***

Time Frame: 2 to 3 class periods (90 minutes each)

Materials: Groundwater Exploration Model, large syringes, pipettes, food coloring

Day 1

- 1) Speaker: Guest speaker from Victoria County Groundwater Conservation District. The speaker discussed topics related to the aquifer, protection of groundwater, issues related to groundwater.
- 2) With the speaker, students worked as a group to construct the Groundwater Exploration Model. Emphasis was placed on accurately constructing a model that represented conditions in Victoria County which included identifying aquifer layers by type of soil and scientific name.
- 3) Evaluation: Participation

Day 2 - 3

- 1) Introduction: Review of aquifer layers and movement of water through an aquifer.
- 2) Groundwater Exploration Activity Model Lab: Student groups observe the groundwater model and how water flows through it. Students sketch and label what they have observed. Students simulate "pumping" wells in the model and observe the effects on the well pumped and neighboring wells. Students distinguish between confined and unconfined wells. They pump both types of wells and observe the results. Students use food coloring to pollute unconfined and confined wells and observe the effects. Students also use the model to simulate the water cycle.
- 3) Evaluation: Drawing of groundwater model showing aquifer layers and water flow. Recorded observations from lab activities. Discussion of the effects of soil layers, pumping, and pollutants on groundwater.

### ***Lesson 4: Victoria County Well Water Investigation***

Time Frame: 2 class periods (90 minutes each)

Materials:

Test tab water investigation kit, well water samples from different locations throughout Victoria County, city tap water

- 1) Introduction: Discuss importance of water quality. Explain methods of testing and types of tests.

- 2) Well Water Testing Lab: Students obtain different well water samples and perform a variety of tests using the Test Tab kit. Students test the well water samples for alkalinity, ammonia, chlorine, chromium, copper, dissolved oxygen, hardness, iron, nitrate, pH, and phosphate. One group tests city tap water so the results can be compared to well water. Each station contains background information and directions on how to conduct the test. Healthy values are provided and the students compare the value of their sample to that of healthy water. At the end of the lab, students determine the overall health of their water sample based on their test results. As a class, students share results and evaluate the quality of water samples obtained from the various locations.
- 3) Evaluation: Recorded test results and observations for the water sample. Evaluation of overall quality of the water sample. Participation in evaluation of water samples from throughout Victoria County.

Names \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## Water Quality Factors

What is point source pollution? Give one example.

What is nonpoint source pollution? Give one example.

### Agriculture

- 1) Point or nonpoint pollution?
- 2) What types of agriculture practices create pollution?
- 3) How does runoff affect water sources?
- 4) How does livestock affect water sources?

### Cities and Towns

- 1) Point or nonpoint pollution?
- 2) What are the common pollutants in urban runoff?
- 3) What is impervious cover? Give 2 examples.
- 4) How does illegal dumping affect water sources?
- 5) How do accidents and spills affect water sources?

### Construction

- 1) Point or nonpoint pollution?
- 2) What affect do construction sites have on water resources?

- 3) How do sediments affect aquatic plants?
- 4) How do sediments affect nesting sites?
- 5) What are some of the techniques construction sites use to reduce their impact on water resources?

#### **Industrial Pollution**

- 1) Point or nonpoint pollution?
- 2) What are some examples of industrial pollution sources?
- 3) What are the effects of industrial pollution?
- 4) What agencies regulate this type of pollution?

#### **Residential Runoff**

- 1) Point or nonpoint pollution?
- 2) Why is this type of runoff a problem?
- 3) What are common residential pollutants?

#### **Wastewater Treatment Plants**

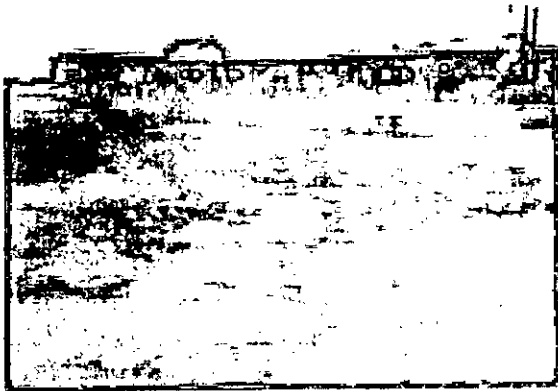
- 1) Point or nonpoint pollution?
- 2) What do these facilities release?
- 3) What are the effects of these types of pollutants?

**As a group, discuss and answer the following questions:**

- 1) Which is more dangerous to water sources, point or nonpoint pollution? Why?
- 2) What are some ways cities can reduce the pollutants that enter water sources?
- 3) What are some ways industry can reduce the pollutants that enter water sources?
- 4) What are some ways individuals can reduce the pollutants that enter their water source?
- 5) Why is protecting and preserving our water important? Include at least 4 reasons.

# Water Quality Factors

## Agriculture



Non-point source pollution sites are much harder to discover and trace. This makes them harder to regulate and monitor.

Non-point source pollution is corrected by:

- preventing the pollution in the first place,
- keeping the pollutants from reaching streams and rivers.



Agriculture practices, such as farming and ranching, can contribute pollutants to watersheds. Crops, feedlots, and pastures are considered nonpoint source pollution sites. These sites can be a source of runoff that includes:

- fertilizers from crops
- sediments eroding from bare soils
- elevated bacteria from animal wastes
- ammonia
- pesticides, insecticides and herbicides

Livestock can overgraze, creating very short grass. This holds back less runoff than longer grasses.



# Water Quality Factors

## Cities and Towns

Cities and towns contribute nonpoint source pollutants. This is sometimes called "urban runoff." Most street drains flow through pipes directly into streams or lakes – rainwater (stormwater) is NOT treated!

Common pollutants found in urban runoff are:

- sediments from bare soils
- bacteria from wastes
- nutrients from fertilizers
- oil from parking lots
- gasoline
- metals
- antifreeze and grease
- pesticides
- trash



Impervious cover refers to parts of the landscape that cannot absorb water the way soil and vegetation do. Concrete, asphalt roads, and rooftops all create impervious cover. They increase the flow of water to streams, lakes and rivers.

Illegal dumping of trash along roads contributes to urban runoff.



Accidents and spills along highways and roads may be infrequent but can cause concentrated pollutants to enter the watershed in a short amount of time.

Non-point source pollution sites are much harder to discover and trace. This makes them harder to regulate and monitor.

Non-point source pollution is corrected by:

- preventing the pollution in the first place
- keeping the pollutants from reaching streams and rivers

# Water Quality Factors

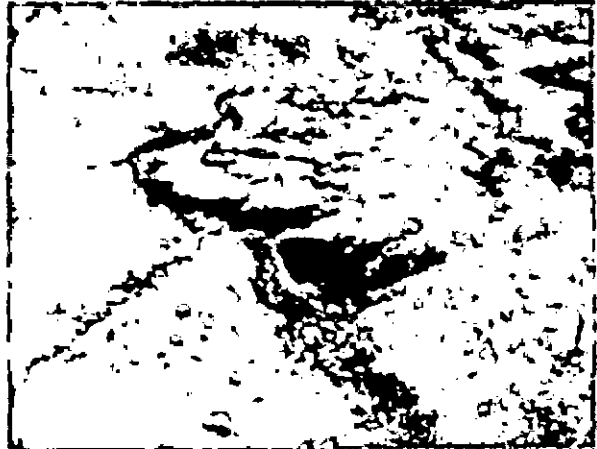
## Construction

Construction sites are considered nonpoint sources of pollution. These areas can cause high levels of sediments to reach waterways, as well as nutrients from fertilizers applied to new lawns and landscaping.

Sediments such as soil, clay and silt settle on aquatic plants and reduce the sunlight they can absorb. This reduces photosynthesis, which in turn reduces the oxygen available to animal life.

Sediments can cover nesting sites as well. They cause water to turn brown and muddy, and they increase turbidity.

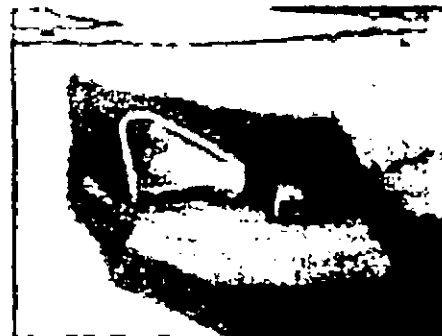
Construction sites are required by law to install erosion control devices and equipment. These include black cloth fencing to slow sediment, and sand bags and barriers in storm drains to slow runoff.



Non-point source pollution sites are much harder to discover and trace. This makes them harder to regulate and monitor.

Non-point source pollution is corrected by:

- preventing the pollution in the first place,
- keeping the pollutants from reaching streams and rivers.





# Water Quality Factors

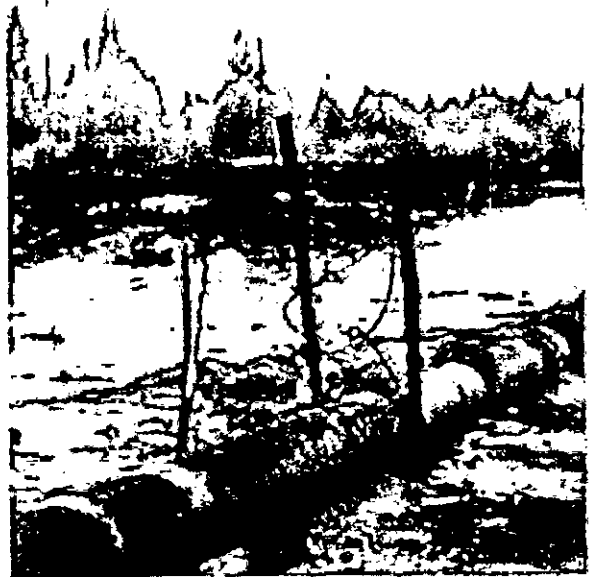
## Industrial Pollution

Industrial pollution sites are often thought of when most people think of pollution. Industrial facilities are considered point sources of pollution. They can contribute numerous types of toxic substances, chemicals and products (depending on the type of industry).

Oil and gas facilities can be sources of pollution if they leak these products into the groundwater.

Effects of industrial pollution can include:

- color changes
- excessive algae
- odors
- absence of aquatic life
- fish kills
- elevated BOD
- sewage fungus

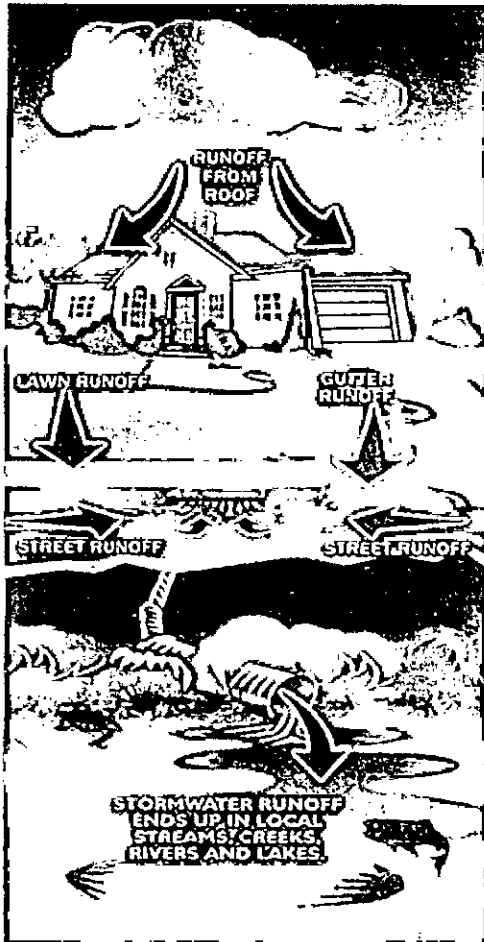


The United States Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ) are responsible for regulating point source pollution and how to treat it.

Point source pollution is relatively easy to find and trace – all you do is find the pipe. It is usually corrected by removing the pollution from the water before it leaves the pipe.

# Water Quality Factors

## Residential Runoff



Subdivisions and residential areas contribute nonpoint source pollutants. This is sometimes called "residential runoff." This runoff is NOT treated and goes through sewers directly into streams, rivers, and lakes. Common pollutants found in residential runoff are:

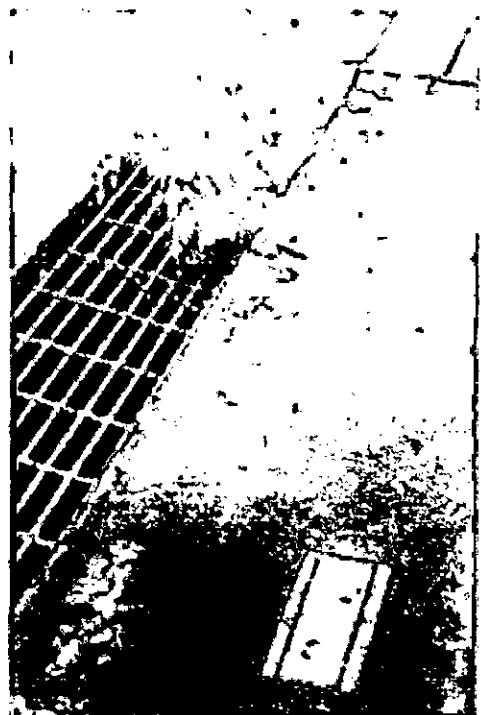
- lawn fertilizers
- sediments
- bacteria from pet wastes
- oil drained from cars
- septic tank overflows
- gasoline
- detergents used to wash cars
- antifreeze and grease
- pesticides
- trash

Impervious cover means parts of the landscape that cannot absorb water as well as soil and vegetation. Concrete, asphalt, and rooftops all create impervious cover. They increase the flow of water to streams, lakes and rivers.

Non-point source pollution sites are much harder to discover and trace. This makes them harder to regulate and monitor.

Non-point source pollution is corrected by:

- preventing the pollution in the first place
- keeping the pollutants from reaching streams and rivers.



# Water Quality Factors

## Wastewater Treatment Plants

Municipal wastewater treatment plants are considered point sources of pollution. These facilities can release:

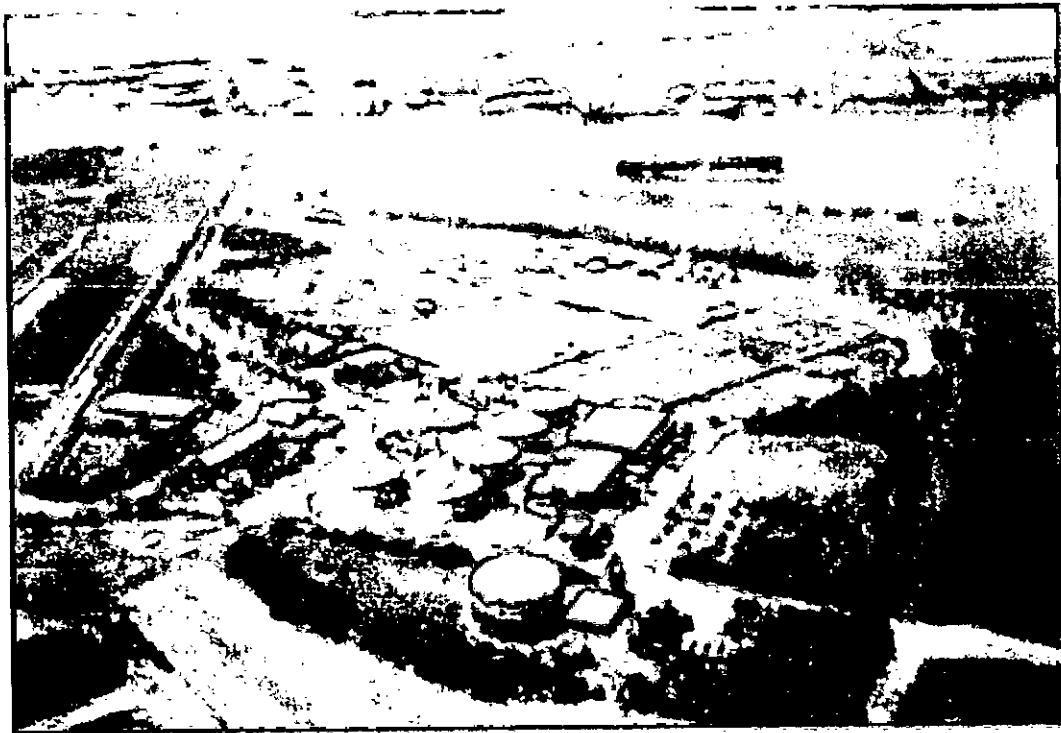
- nutrients
- bacteria
- sediments

The effects of these pollutants include:

- excess algae (algal blooms)
- white foam
- sludge deposits (brown or gray solids)
- absence of fish and insects
- variable DO levels
- high BOD

The United States Environmental Protection Agency (EPA) and the Texas Commission on Environmental Quality (TCEQ) are responsible for regulating point source pollution and how to treat it.

Point source pollution is relatively easy to find and trace – all you do is find the pipe. It is usually corrected by removing the pollution from the water before it leaves the pipe.



Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

## Lab: Properties of Water

### Surface Tension

*Problem:* How many drops of water can a penny hold?

*Hypothesis:*

Penny only \_\_\_\_\_ Penny and dish soap \_\_\_\_\_

*Materials:* paper towel, pipette, penny, dish soap

*Procedure:*

1. Place a dry penny on the paper towel.
2. Slowly add water drops to the penny.
3. Look at the penny from the side as you add drops.
4. Record observations.
5. Record the number of drops the penny held.
6. Dry the penny.
7. Smear a thin layer of dish soap on the penny.
8. Repeat the experiment.
9. Record the number of drops the penny held.
10. Clean the penny and put away your materials.

*Observations:*

Penny only --

Penny and soap --

*Results:*

Drops on a penny \_\_\_\_\_ Drops on a penny and dish soap \_\_\_\_\_

### Cohesion

*Problem:* Why does water stick to itself?

*Hypothesis:* \_\_\_\_\_

*Materials:* Ice tray, red water

1. Fill the two end depressions of an ice tray with red water.
2. Carefully and slowly tilt the end of the tray up until it is vertical.
3. Record your observations.

*Observations:*

## **Water Molecular Models**

Use the water molecules to model the behavior of water.

Sketch a water molecule. Label the ends as hydrogen and oxygen. Include charges.

Water is "polar." What does this mean?

## **Modeling Cohesion**

Cohesion can be modeled by attaching several water molecules together in a suspended chain.

Sketch the water molecules here to show cohesion. Label the ends as O<sup>-</sup> and H<sup>+</sup>.

## **Modeling Liquid Water**

The simplest water molecules are bimolecular. What does this mean?

Create 4 different bimolecular water molecules. Sketch and label them below.

## Structure of Liquid Water vs. Solid Water

*Problem: Why Does Ice Float?*

*Hypothesis:* \_\_\_\_\_

*Materials:* molecular water models

*Procedure:*

1. Take the 12 water molecules and smush them together in your hand.
2. This represents liquid water.
3. Bond 6 models in a hexagon to show the open molecular structure of ice.

Based on the molecular structures observed, which is less dense ice or water?

Why does ice float?

## Water: The Universal Solvent

*Problem: How Does Water Dissolve Substances?*

*Hypothesis:* \_\_\_\_\_

*Materials:* molecular water models, sodium ion model, chloride ion model

*Procedure:*

1. Bond the sodium ion (silver) and the chloride ion (green).
2. Bond the hydrogen (white) end of 5 water molecules to the 5 pegs on the chloride ion.
3. Bond five water molecules to the 5 pegs on the chloride ion.
4. The sodium and chloride dissociate (break apart).
5. Another water molecule bonds to each ion.

This models how water can dissolve charged ions.

Explain what it means "like dissolves like".

**Questions:**

1. Describe the following properties of water:

a) Surface Tension

b) Polarity

c) Cohesion

2. Why is water called the universal solvent?

3. How does water's ability to dissolve many substances relate to water pollution?

4. How do the properties of water relate to groundwater contamination?

5. What can you do to protect groundwater resources?

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

### **Groundwater Exploration Activity Model**

- 1) Sketch the groundwater model. Include soil layers, wells, and water.  
Label the wells from #1 – 11. Include the lake and tank shown in the model.  
Label the soil levels with the correct name and soil type. (Jasper, Burkeville, Evangeline, Chicot). Show the direction of water flow. Label the confined and unconfined areas in the model. Include color on your sketch.



2) "Pump" a well using the syringe. Observe what happens in the "pumped" well and neighboring wells. Record your observations.

3) "Pump" an unconfined well. Record observations.

4) "Pump" a confined well. Record observations.

5) Drain the "lake." Pour water over the soil and observe what happens to the lake. Record observations. What process in nature does this represent?

6) Insert food coloring into a well in an unconfined layer. Time the rate of travel to the edge of the model. Repeat for a confined layer. Record all data in the table below.

Layer	Time
Unconfined Layer	
Confined Layer	

What conclusion can you make from this experiment?

**Questions:**

- 1) How is water stored underground?
- 2) How is groundwater recharged?
- 3) How does the soil type affect the flow of groundwater?
- 4) What does the food coloring represent in the model?
- 5) What will happen if pollutants and wastes are dumped into a well?
- 6) What should be done with an abandoned well? Why?
- 7) How does overpumping affect neighboring wells?
- 8) What steps can be taken to protect groundwater resources?
- 9) Why is it important to protect groundwater resources?

Names \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

### Victoria County Well Water Investigation

Your group will test a sample of well water from Victoria County in order to determine the quality of the water tested.

Location of well water sample \_\_\_\_\_

**SAFETY:** You **MUST** wear safety glasses and an apron. Wash hands after performing the tests. Waste materials can be disposed of in lab sinks.

#### Station 1 Alkalinity

What is alkalinity?

What is buffering and why is it important?

Follow the directions to test your water sample for alkalinity. Record results below:

	Observations	Ppm Total Alkalinity
Healthy range (found on information card)	XXXXXXXX	
Well Water Sample		

Conclusion:

#### Station 2 Ammonia

What causes ammonia in groundwater?

What are the effects of ammonia in water?

Follow the directions to test your water sample for ammonia. Record results below:

	Observations	Ppm Ammonia
Healthy range (found on information card)	XXXXXXXX	
Well Water Sample		

Conclusion:

**Station 3 Chlorine**

How does chlorine enter the water supply?

What are the effects of high chlorine levels?

Follow the directions to test your water sample for chlorine. Record results below:

	Observations	Ppm Total Chlorine
Healthy range (found on information card)	XXXXXXXX	
Well Water Sample		

Conclusion:

**Station 4 Chromium**

How does chromium enter the water supply?

It is a heavy metal and toxic. What does this mean?

What are the effects of chromium in the water?

Follow the directions to test your water sample for chromium. Record results below:

	Observations	Ppm Total Chromium
Healthy range (found on information card)	XXXXXXXX	
Well Water Sample		

Conclusion:

**Station 5 Copper**

How does copper enter groundwater?

Why is copper added to water?

What are the effects of copper in water?

Follow the directions to test your water sample for copper. Record results below:

	Observations	Ppm Total Copper
Healthy range (found on information card)	XXXXXXXX	
Well Water Sample		

Conclusion:

**Station 6 Dissolved Oxygen**

What is dissolved oxygen?

Why is it important?

Would you expect dissolved oxygen in well water? Why or why not?

Follow the directions to test your water sample for dissolved oxygen. Record results below:

	Observations	Ppm Dissolved Oxygen
Healthy range (found on information card)	XXXXXXXX	
Well Water Sample		

Conclusion:

**Station 7 Hardness**

What does hardness refer to?

How do these minerals enter water?

What is "soft" water?

What is "hard" water?

What problems can hard water cause in homes?

Follow the directions to test your water sample for hardness. Record results below:

	Observations	Ppm Total Hardness
Healthy range (found on information card)	XXXXXXXX	
Well Water Sample		

Conclusion:

**Station 8 Iron**

How do iron levels in water become elevated?

What problems do large amounts of iron in water cause?

Follow the directions to test your water sample for iron. Record results below:

	Observations	Ppm Total Alkalinity
Healthy range (found on information card)	XXXXXXXX	
Well Water Sample		

Conclusion:

### Station 9 Nitrate

How does nitrogen enter water?

What do high levels of nitrate indicate?

Follow the directions to test your water sample for nitrate. Record results below:

	Observations	Ppm Total Nitrate
Healthy range (found on information card)	XXXXXXXX	
Well Water Sample		

Conclusion:

### Station 10 pH

What is pH?

What can cause acidic pH readings?

What can cause basic (or alkaline) pH readings?

Follow the directions to test your water sample for pH. Record results below:

	Observations	pH reading
Healthy range (found on information card)	XXXXXXXX	
Well Water Sample		

Conclusion:

### Station 11 Phosphate

How does phosphorus enter water?

What is the effect of phosphorus in waters?

Follow the directions to test your water sample for phosphate. Record results below:

	Observations	Ppm Total Phosphate
Healthy range (found on information card)	XXXXXXXX	
Well Water Sample		

Conclusion:

Analyze the overall condition of your well water sample. Provide support for your analysis based on your test results.



*Agriculture is Life!*

## **Effects of Brush Management on Water Resources**

**By:**

**C. Allan Jones and Lucas Gregory, Texas Water Resources Institute, Texas A&M AgriLife**

**Texas Water Resources Institute Technical Report  
November 2008**

## What is Groundwater

Groundwater is water that is found underground in the cracks and spaces in soil and rock. Water that is stored underground and can be retrieved for human use is said to be contained within an aquifer. Aquifers can be found in almost any geographic area, however, their productivity can vary greatly. Flux of water in an aquifer is part of the hydrologic cycle. Precipitation and surface water may recharge an aquifer by infiltration through overlying soil and rock. This water can later be released by discharging at springs, lakes, or rivers, or by pumping at wells. Groundwater flow through and near aquifers can dissolve openings in soluble rock, creating caves.

## Why is Groundwater Important?

Although the majority of the Earth's surface is covered with oceans, seawater is salty and cannot be drunk by humans without extensive treatment. About a third of the freshwater on the planet is locked up in the form of ice, and freshwater in rivers and lakes is easily contaminated and greatly overused in many places. Further, some areas do not have rivers and lakes nearby. In areas such as San Antonio, nearly 100% of the water used is pumped from wells. Nationally, half of the population of the United States drinks groundwater, and most of the crops in the US are irrigated with groundwater.

Groundwater supports a unique array of biota in the caves, springs, and lakes associated with aquifers. Often, these organisms are limited in distribution and are therefore especially vulnerable to changes in the quantity and quality of water in aquifers.

## People's Impact on Groundwater

Groundwater recharge in some areas can filter water of natural impurities, but in other areas the rapid rate of infiltration speeds contamination into aquifers. This is true not only of pollutants

on the surface, but items we intentionally bury, such as gasoline tanks, septic systems, and landfills. Quick infiltration can carry these contaminants into aquifers, making the water source for many people undrinkable.

The rate of groundwater discharging to the surface naturally is controlled largely by the amount of recharge

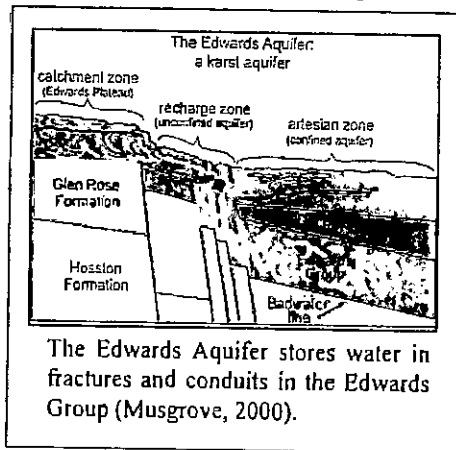
elsewhere. Humans modify this by pumping groundwater from wells. Areas such as Houston have pumped groundwater faster than it could be replaced, resulting in the permanent lowering of the ground surface. This subsidence damages buildings, roads, and pipelines, and makes areas more prone to flooding. Additionally, over-pumping in coastal areas can cause saltwater intrusion, making the groundwater undrinkable.

## Groundwater's Impact on People

Development of cities and transportation patterns was historically controlled by the distribution of surface water, but groundwater certainly played a role. Groundwater discharging at springs served as the center of commerce in some areas. Communities could not exist in the absence of water. Today, development in some areas is regulated to protect our critical water resources.

## Future of Our Groundwater

The future of our groundwater resources depends on protection of aquifers from pollution and conservation of water to prevent over-use.



# WHAT IS AN AQUIFER?

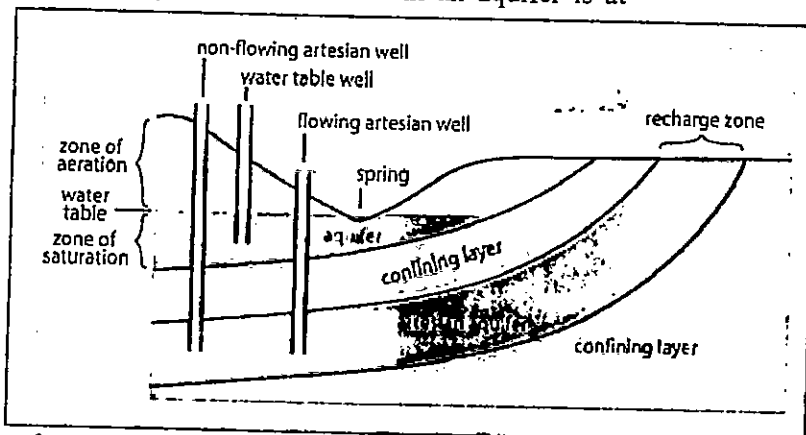


## Definition of an Aquifer

An aquifer is a body of rock that can store and transmit significant quantities of water (Gunn, 2004). These characteristics vary according to porosity and permeability. Porosity is the percentage of open space in a rock. Permeability is the degree to which a rock allows the transmission of fluids through these pore spaces. Even if a rock has high porosity and contains water, it is not considered an aquifer unless it has high enough permeability to get the water out.

## Parts of an Aquifer

Less permeable rock below an aquifer that keeps groundwater from draining away is called a confining bed (also known as aquitard or aquiclude). The water table in an aquifer is at



the very top of the zone of saturation (the zone where water completely fills all the interconnected pore spaces). Water in this zone is called phreatic water. Between the water table and the land surface is the zone of aeration, which can also contain some water (known as vadose water). At the bottom of the zone of aeration, water usually occurs a few centimeters above the water table due to capillary action. At the top of the zone of aeration, water may be held in the soil. Water in the intermediate area of the zone of aeration is usually moving down toward the zone of saturation.

When an aquifer is bounded on top and bottom by confining beds, it is called an artesian aquifer. Water enters an artesian aquifer where the confining layer is absent – the recharge zone. Water in an artesian aquifer is under pressure from the weight of the water at higher elevations. Because of this pressure, wells drilled into an artesian aquifer will have water forced up. If the water level is higher than the elevation of the land in the area, it is a flowing artesian well.

## Types of Aquifers

**By use:** A primary aquifer is the single most important economic source of groundwater in an area. Aquifers supplying minor amounts are secondary aquifers. A sole source aquifer provides all of the drinking water to an area.

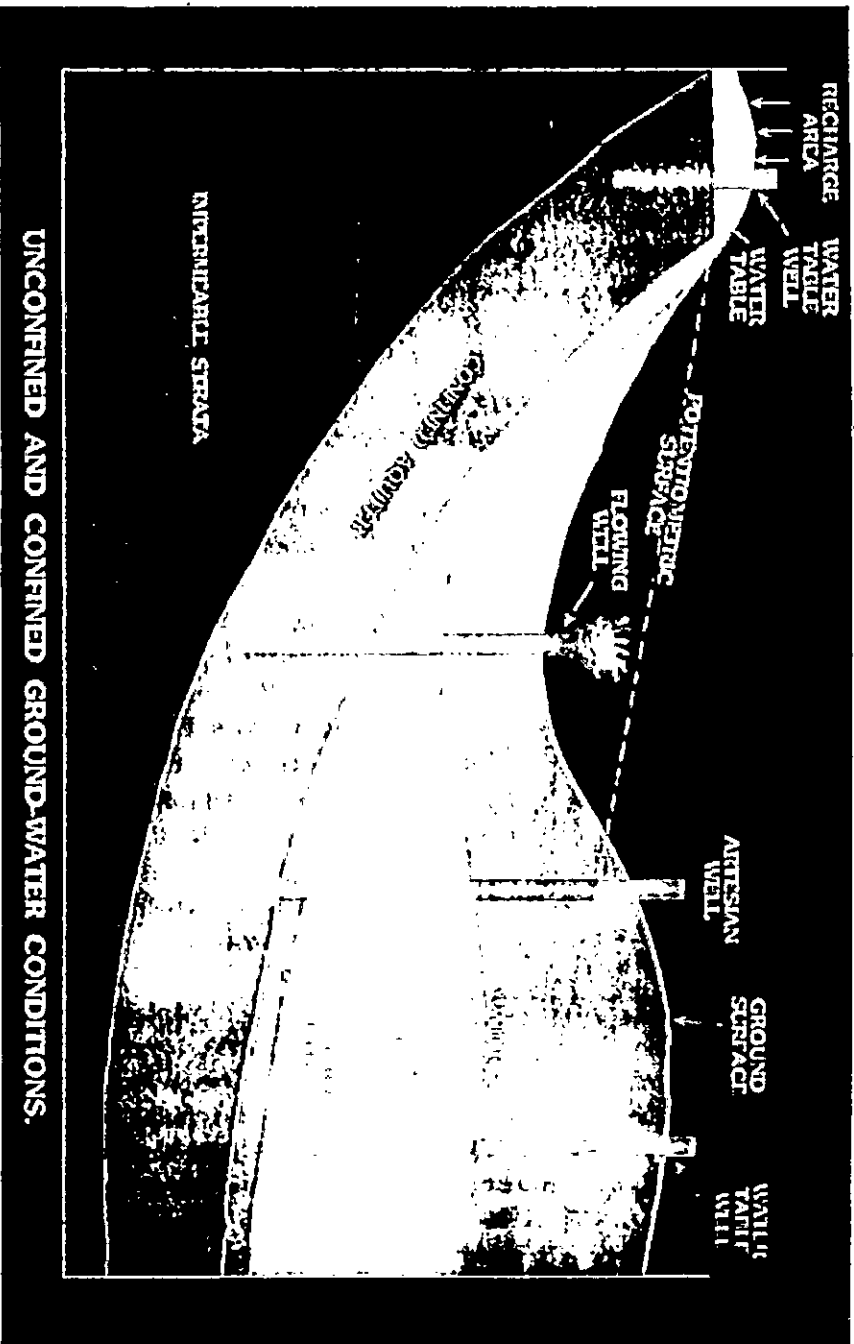
**By location:** Bedrock aquifers occur in consolidated rock. Surficial (or water table) aquifers occur in unconsolidated sediment between the soil and bedrock. Perched aquifers are small and separated from a main aquifer below it by a confining layer and a zone of aeration. Artesian aquifers are bounded above and below by confining beds.

**By host rock:** Most aquifers occur in carbonate, clastic, or volcanic rocks. Aquifers in carbonate rocks (also called karst aquifers) transmit water through fractures or dissolved passages. Clastic aquifers may be consolidated or unconsolidated and transmits water slowly through the spaces between sediments. Volcanic rocks, when fractured, can have very high permeability, but this type of aquifer is rare in Texas. Other rock types, such as granite in the Llano region of Texas, can also act as a local aquifer when fractured.

### References

Gunn, J. 2004. Encyclopedia of Caves and Karst Science. Fitzroy Dearborn, New York, 902 pp.

# Aquifers



UNCONFINED AND CONFINED GROUND-WATER CONDITIONS.

## Gulf Coast Aquifer

The Gulf Coast aquifer forms a wide belt along the Gulf of Mexico from Florida to Mexico. In Texas, the aquifer provides water to all or parts of 54 counties and extends from the Rio Grande northeastward to the Louisiana-Texas border. Municipal and irrigation uses account for 90 percent of the total pumpage from the aquifer. The Greater Houston metropolitan area is the largest municipal user, where well yields average about 1,600 gal/min.

The aquifer consists of complex interbedded clays, silts, sands, and gravels of Cenozoic age, which are hydrologically connected to form a large, leaky artesian aquifer system. This system comprises four major components consisting of the following generally recognized water-producing formations. The deepest is the Catahoula, which contains ground water near the outcrop in relatively restricted sand layers. Above the Catahoula is the Jasper aquifer, primarily contained within the Oakville Sandstone. The Burkeville confining layer separates the Jasper from the overlying Evangeline aquifer, which is contained within the Fleming and Goliad sands. The Chicot aquifer, or upper component of the Gulf Coast aquifer system, consists of the Lissie, Willis, Bentley, Montgomery, and Beaumont formations, and overlying alluvial deposits. Not all formations are present throughout the system, and nomenclature often differs from one end of the system to the other. Maximum total sand thickness ranges from 700 feet in the south to 1,300 feet in the northern extent.

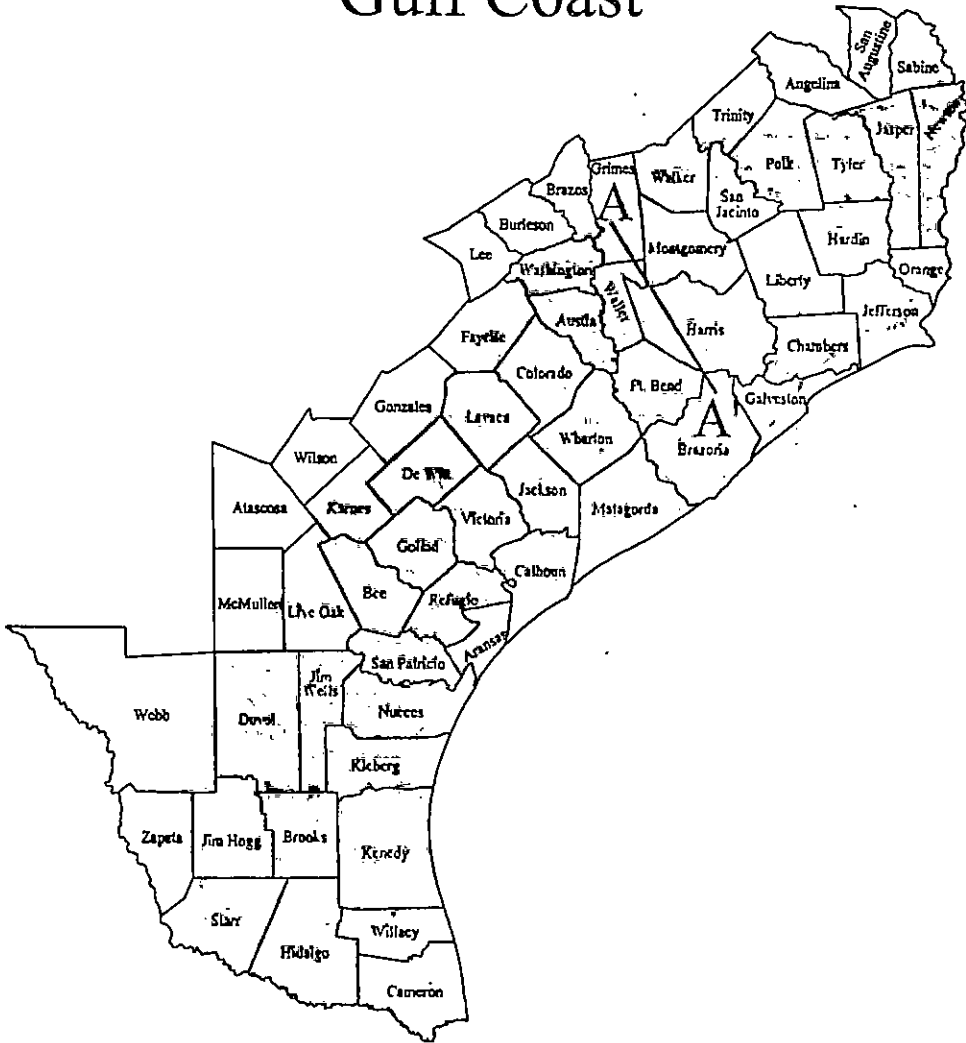
Water quality is generally good in the shallower portion of the aquifer. Ground water containing less than 500 mg/l dissolved solids is usually encountered to a maximum depth of 3,200 feet in the aquifer from the San Antonio River Basin northeastward to Louisiana. From the San Antonio River Basin southwestward to Mexico, quality deterioration is evident in the form of increased chloride concentration and saltwater encroachment along the coast. Little of this ground water is suitable for prolonged irrigation due to either high salinity or alkalinity, or both. In several areas at or near the coast, including Galveston Island and the central and southern parts of Orange County, heavy municipal or industrial pumpage had previously caused an updip migration, or saltwater intrusion, of poor-quality water into the aquifer. Recent reductions in pumpage here have resulted in a stabilization and, in some cases, even improvement of ground-water quality.

Years of heavy pumpage for municipal and manufacturing use in portions of the aquifer have resulted in areas of significant water-level decline. Declines of 200 feet to 300 feet have been measured in some areas of eastern and southeastern Harris and northern Galveston counties. Other areas of significant water-level declines include the Kingsville area in Kleberg County and portions of Jefferson, Orange, and Wharton counties. Some of these declines have resulted in compaction of dewatered clays and significant land surface subsidence. Subsidence is generally less than 0.5 foot over most of the Texas coast, but has been as much as nine feet in Harris and surrounding counties. As a result, structural damage and flooding have occurred in many low-lying areas along Galveston Bay in Baytown, Texas City, and Houston. Conversion to surface-water use in many of the problem areas has reversed the decline trend.

### References

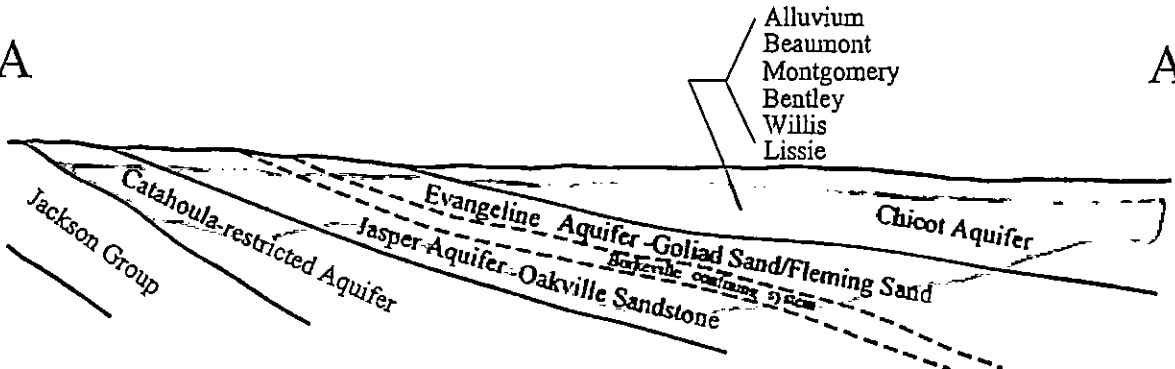
- Baker, E.T., Jr., 1979, Stratigraphic and hydrogeologic framework of part of the Coastal Plain of Texas: TDWR Rept. 236, 43 p.
- Guyton, W.E., and Associates, 1972, Ground-water conditions in Anderson, Cherokee, Freestone, and Henderson counties, Texas: TWDB Rept. 150, 80 p.
- McCoy, T.W., 1990, Evaluation of ground-water resources in the Lower Rio Grande Valley, Texas: TWDB Rept. 316, 48 p.
- Muller, D.A., and Price, R.D., 1979, Ground-water availability in Texas, estimates and projections through 2030: TDWR Rept. 238, 77 p.
- Sandeen, W.M., and Wesselman, J.B., 1973, Ground-water resources of Brazoria County, Texas: TWDB Rept. 163, 205 p.
- Shafer, G.H., 1968, Ground-water resources of Nueces and San Patricio counties, Texas: TWDB Rept. 73, 137 p.
- \_\_\_\_\_, 1970, Ground-water resources of Aransas County, Texas: TWDB Rept. 124, 83 p.
- Shafer, G.H., and Baker, E.T., Jr., 1973, Ground-water resources of Kleberg, Kenedy, and southern Jim Wells counties, Texas: TWDB Rept. 173, 69 p.
- Thorkildsen, D., 1990, Evaluation of water resources of Fort Bend County, Texas: TWDB Rept. 321, 21 p.
- Thorkildsen, D., and Quincy, R., 1990, Evaluation of water resources of Orange and eastern Jefferson counties, Texas: TWDB Rept. 320, 34 p.
- Wesselman, J.B., 1967, Ground-water resources of Jasper and Newton counties, Texas: TWDB Rept. 59, 167 p.
- Wesselman, J.B., and Aronow, S., 1971, Ground-water resources of Chambers and Jefferson counties, Texas: TWDB Rept. 133, 183 p.

# Gulf Coast



A

A'



Modified from Baker, 1979

## Sources of Contamination

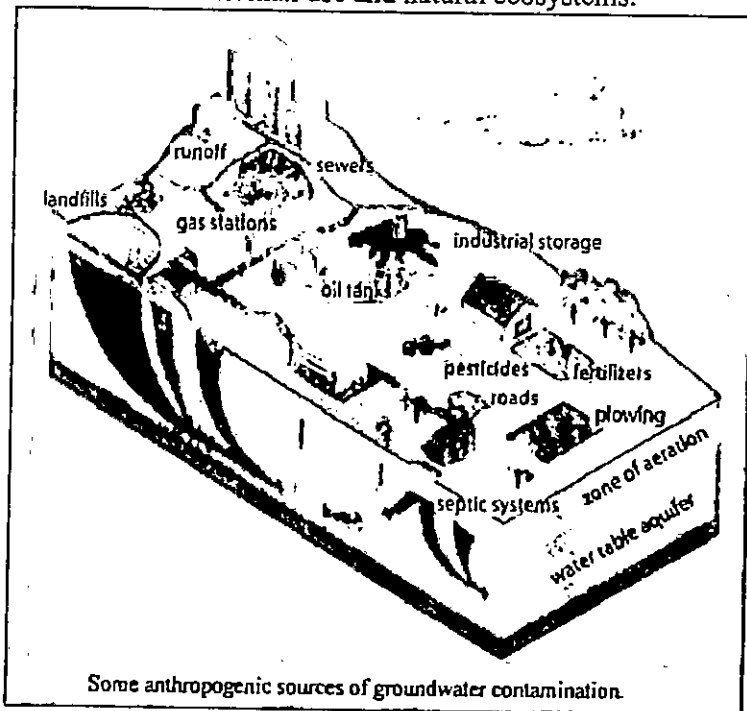
Contamination of groundwater is a serious problem because the pollutants often travel unnoticed until tested. This is especially problematic in karst aquifers because of the rapid movement of contaminants. Once contaminated, an aquifer is difficult to clean and the effects can linger for many years.

- Excess organic matter: farm animal wastes, leaky sewers and septic systems.
- Toxic organic compounds: landfills, gas stations, industrial sites, oil tanks, urban runoff.
- Acidic runoff: vehicle exhaust which forms acid rain.
- Dissolved salts: industrial sites, salt used to deice roads.
- Excess nitrates and phosphorous: fertilizers.
- Heavy metals: industrial sites and landfills.
- Microbial contaminants: animal and human wastes.
- Suspended sediment: plowing of fields, construction of roads and buildings, logging, urban runoff.
- Thermal pollution: industrial sites.
- Emerging contaminants: landfills, leaky sewers and septic systems. (Emerging contaminants are new pollutants, such as hormones and drugs, about which we do not yet understand the potential impacts.)
- Radioactive contaminants: wastewater discharge from factories, hospitals, and mines.

The most prevalent groundwater contaminant may be herbicides and pesticides. In a study of aquifers across the US, herbicides and pesticides were detected in about half (Barbash, 2001).

## Contamination by Nature

Many of the items listed here as contaminants do occur naturally as well. Some are actually necessary to support healthy ecosystems. Organic matter, nitrates, and phosphorous all contribute to the diversity of life associated with groundwater. It is not the simple presence of these items that is problematic, but the excess amounts that pollutes groundwater resources for both human use and natural ecosystems.



Some anthropogenic sources of groundwater contamination.

Even when all precautions are taken, natural disturbances can impact groundwater quality. Storms can create large amounts of runoff that quickly carry pollutants into water supplies without being filtered. Fires can remove ground cover and cause increased sediment pollution. Landslides and earthquakes can break sewer lines and release contaminants from septic systems, landfills, and underground storage containers.

### References

- Barbash, J. E., G. P. Thelin, D. W. Kolpin, and R. J. Gilliom. 2001. Major herbicides in ground water: results from the National Water-Quality Assessment. *Journal of Environmental Quality* 30:831-845.

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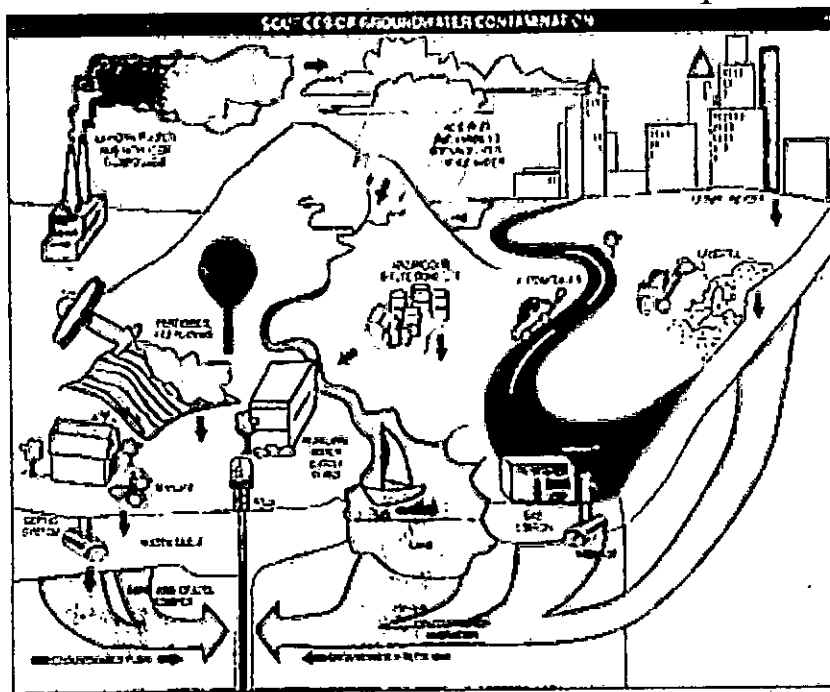
PROGRAMS/EVENTS

KIDS CORNER

SHOP

## Sources of Groundwater Contamination

Groundwater contamination occurs when man-made products such as gasoline, oil, road salts and chemicals get into the groundwater and cause it to become unsafe and unfit for human use. Some of the major sources of these products, called contaminants, are storage tanks, septic systems, hazardous waste sites, landfills, and the widespread use of road salts, fertilizers, pesticides and other chemicals.



©2009 The Groundwater Foundation. Illustration by G. Mansfield. The Groundwater Foundation

Storage tanks may contain gasoline, oil, chemicals, or other types of liquids and they can either be above or below ground. There are estimated to be over 10 million storage tanks buried in the United States and over time the tanks can corrode, crack and develop leaks. If the contaminants leak out and get into the groundwater, serious contamination can occur.

Septic systems can be another serious contamination source. Septic systems are used by homes, offices or other buildings that are not connected to a city sewer system. Septic systems are designed to slowly drain away human waste underground at a slow, harmless rate. An improperly designed, located, constructed, or maintained septic system can



leak bacteria, viruses, household chemicals, and other contaminants into the groundwater causing serious problems.

In the United States today, there are thought to be over 20,000 known abandoned and uncontrolled hazardous waste sites and the numbers grow every year. Hazardous waste sites can lead to groundwater contamination if there are barrels or other containers laying around that are full of hazardous materials. If there is a leak, these contaminants can eventually make their way down through the soil and into the groundwater.

Landfills are another major source of contamination. Landfills are the places that our garbage is taken to be buried. Landfills are supposed to have a protective bottom layer to prevent contaminants from getting into the water. However, if there is no layer or it is cracked, contaminants from the landfill (car battery acid, paint, household cleaners, etc.) can make their way down into the groundwater.

The widespread use of road salts and chemicals is another source of potential groundwater contamination. Road salts are used in the wintertime to put melt ice on roads to keep cars from sliding around. When the ice melts, the salt gets washed off the roads and eventually ends up in the water. Chemicals include products used on lawns and farm fields to kill weeds and insects and to fertilize the plants. When the rain comes, these chemicals get washed into the ground and eventually into the water.

We have to remember that since groundwater is part of the hydrologic cycle, contaminants in other parts of the cycle, such as the atmosphere or bodies of surface water, can eventually be transferred into our groundwater supplies.

So now that you know the risks to groundwater, what can we do about it? [Click here to meet and join a network of communities](#) full of people who can help you and your community protect its groundwater.

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## Top 10 Ways to Protect and Conserve Groundwater

1. Dispose of chemicals properly.
2. Take used motor oil to a recycling center.
3. Limit the amount of fertilizer used on plants.
4. Take short showers.
5. Shut water off while brushing teeth.
6. Run full loads of dishes and laundry.
7. Check for leaky faucets and have them fixed.
8. Water plants only when necessary.
9. Keep a pitcher of drinking water in the refrigerator.
10. Get involved in water education.

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## U.S. Environmental Protection Agency Drinking Water & Ground Water Kids' Stuff

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Safewater Home

### Water Trivia Facts

#### For Kids & Students

Grades K - 3  
Grades 4 - 8  
Grades 9 - 12

#### For Teachers

Grades K - 3  
Grades 4 - 8  
Grades 9 - 12

#### Games & Activities

#### Other Kids' Stuff

#### Kids' Health

1. Water is the only substance found on earth naturally in three forms.  
True (Solid, liquid and gas)
2. Does water regulate the earth's temperature?  
Yes (it is a natural insulator)
3. At what temperature does water freeze?  
32 degrees F, 0 degrees C
4. At what temperature does water vaporize?  
212 degrees F, 100 degrees C
5. How long can a person live without food?  
More than a month  
How long can a person live without water?  
Approximately one week, depending upon conditions
6. How much of the human body is water?  
66%
7. How much of the earth's surface is water?  
80%
8. How much water must a person consume per day to maintain health?  
2.5 quarts from all sources (i.e. water, food)
9. Of all the earth's water, how much is ocean or seas?  
97%
10. How much of the world's water is frozen and therefore unusable?  
2%
11. How much of the earth's water is suitable for drinking water?  
1%
12. Is it possible for me to drink water that was part of the dinosaur era?  
Yes - water is constantly recycled
13. What is the most common substance found on earth?  
Water
14. How much water does the average residence use during a year?  
Over 100,000 gallons (indoors and outside)
15. How much water does an individual use daily?

Over 100 gallons (all uses)

16. What does a person pay for water on a daily basis?  
National average is 25 cents

17. How many community public water systems are there in the United States?  
54,000

18. How much water do these utilities process daily?  
38 billion gallons

19. What does it cost to operate the water systems throughout the country annually?  
Over \$3.5 billion

20. How many miles of pipeline and aqueducts are in the United States and Canada?  
Approximately one million miles, or enough to circle the earth 40 times

21. What were the first water pipes made from in the US?  
Fire charred bored logs

22. Where was the first municipal water filtration works opened and when?  
Paisley, Scotland in 1832

23. Of the nation's community water supplies, what percentage are investor-owned?  
15 %

24. How many households use private wells for their water supply?  
More than 13 million

25. How much water is used to flush a toilet?  
2-7 gallons

26. How much water is used in the average five-minute shower?  
15-25 gallons

27. How much water is used on the average for an automatic dishwasher?  
9-12 gallons

28. On the average, how much is used to hand wash dishes?  
9-20 gallons

29. How much does one gallon of water weigh?  
8.34 pounds

30. What is the weight of water in one cubic foot?  
62.4 pounds

31. How much water drops with an inch of rain?  
One inch of rainfall drops 7,000 gallons

32. How much water does it take to process a quarter pound of hamburger?  
Approximately one gallon

33. How much water does it take to produce one ton of steel?  
62,600 gallons
34. How much water is used to produce a single day's supply of U.S. newsprint?  
300 million gallons
35. What is the total amount of water used to manufacture a new car, including new tires?  
39,090 gallons per car
36. How much water must a dairy cow drink to produce one gallon of milk?  
Four gallons
37. How much water is used during the growing/production of a chicken?  
400 gallons
38. How much water is used during the growing/production of almonds?  
12 gallons
39. How much water is used during the growing/production of french fries?  
6 gallons
40. How much water is used during the growing/production of a single orange?  
13.8 gallons
41. How much water is used during the growing/production of a watermelon?  
100 gallons
42. How much water is used during the growing/production of a loaf of bread?  
150 gallons
43. How much water is used during the growing/production of a tomato?  
3 gallons
44. How much water is used during the growing/production of rice?  
35 gallons
45. How much water is used during the production of an egg?  
120 gallons

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Last updated on Tuesday, February 28th, 2006  
URL: [http://www.epa.gov/safewater/kids/water\\_trivia\\_facts.html](http://www.epa.gov/safewater/kids/water_trivia_facts.html)

# Water for Texas



FUN CRAYONS



Cedar Park Fire Department  
& T.A.C.S. Program



**Color-Brite**  
**Crayons**

4 Non-Toxic Crayons

# TWDB KIDS

TEXAS WATER DEVELOPMENT BOARD K-12 EDUCATIONAL RESOURCES

Children today will face a daunting challenge when they are adults: managing and conserving Texas' dwindling water supplies. So that they are equipped for this challenge, these future decision makers will need to be educated on the scientific background as well as the complex issues surrounding this critical resource.

The place to begin water education is in the school classroom. School programs can result in both short- and long-term water savings. The information students learn now is often shared with their parents and affects current water use patterns in their households. Youth educated about water resources are also more likely to make life-long behavioral changes.

<http://www.twdb.texas.gov/kids>





# Water Loss Manual



**Texas Water Development Board**

P.O. Box 13231

Austin, Texas 78711-3231

May 2005

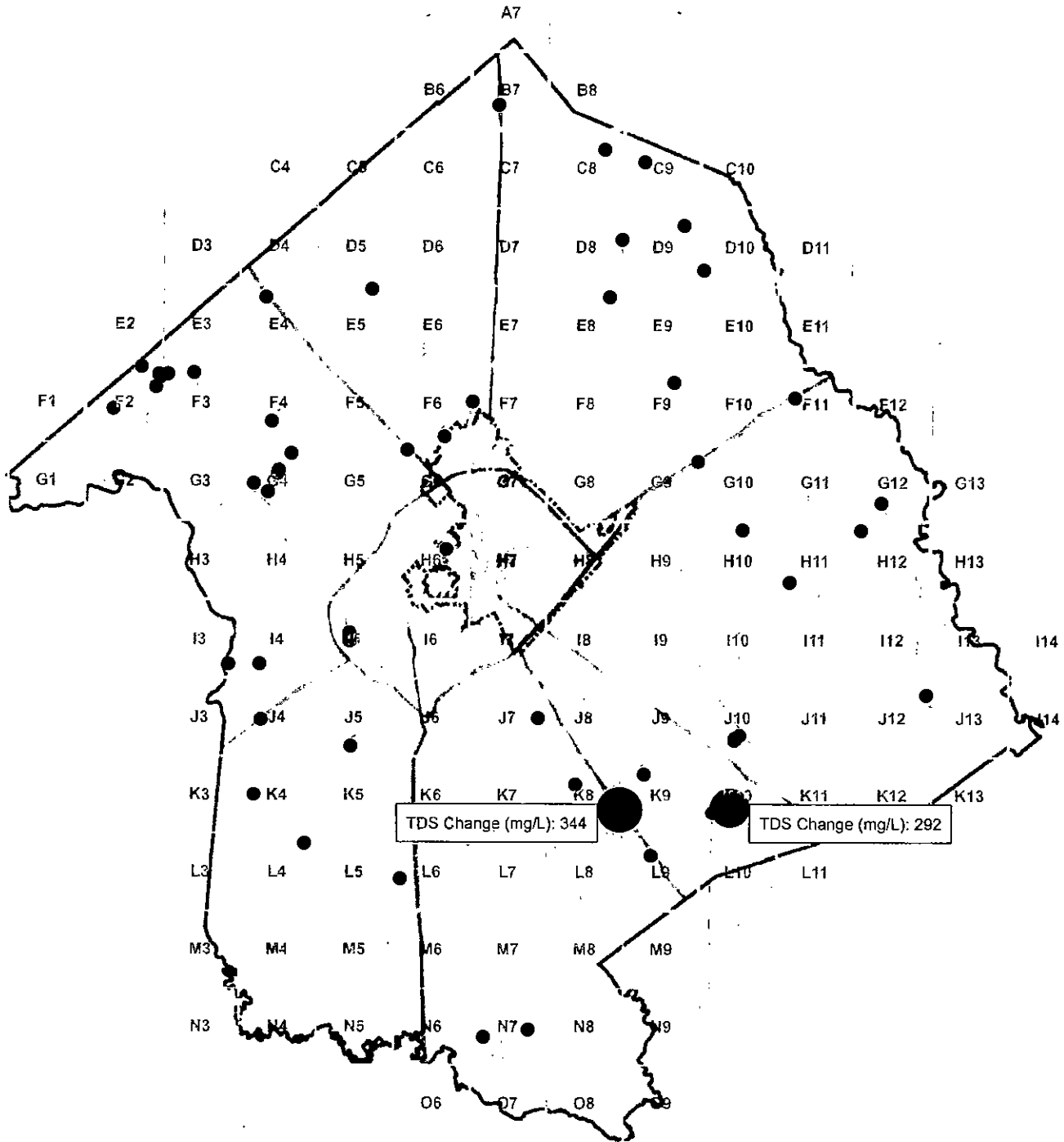




Victoria County Groundwater Conservation District  
 2805 N. Navarro St, Suite 210, Victoria, TX 77901  
 Phone: ( 361 ) 579 - 6863 | FAX: ( 361 ) 579 - 0041  
 www.vcgcd.org | admin@vcgcd.org

# Aquifer Measurement Map

Maximum Water Quality (TDS) Flux  
 for Measurements Collected  
 Between 2009 and 2013



1 inch = 30,000 feet

Date: 10/22/2013

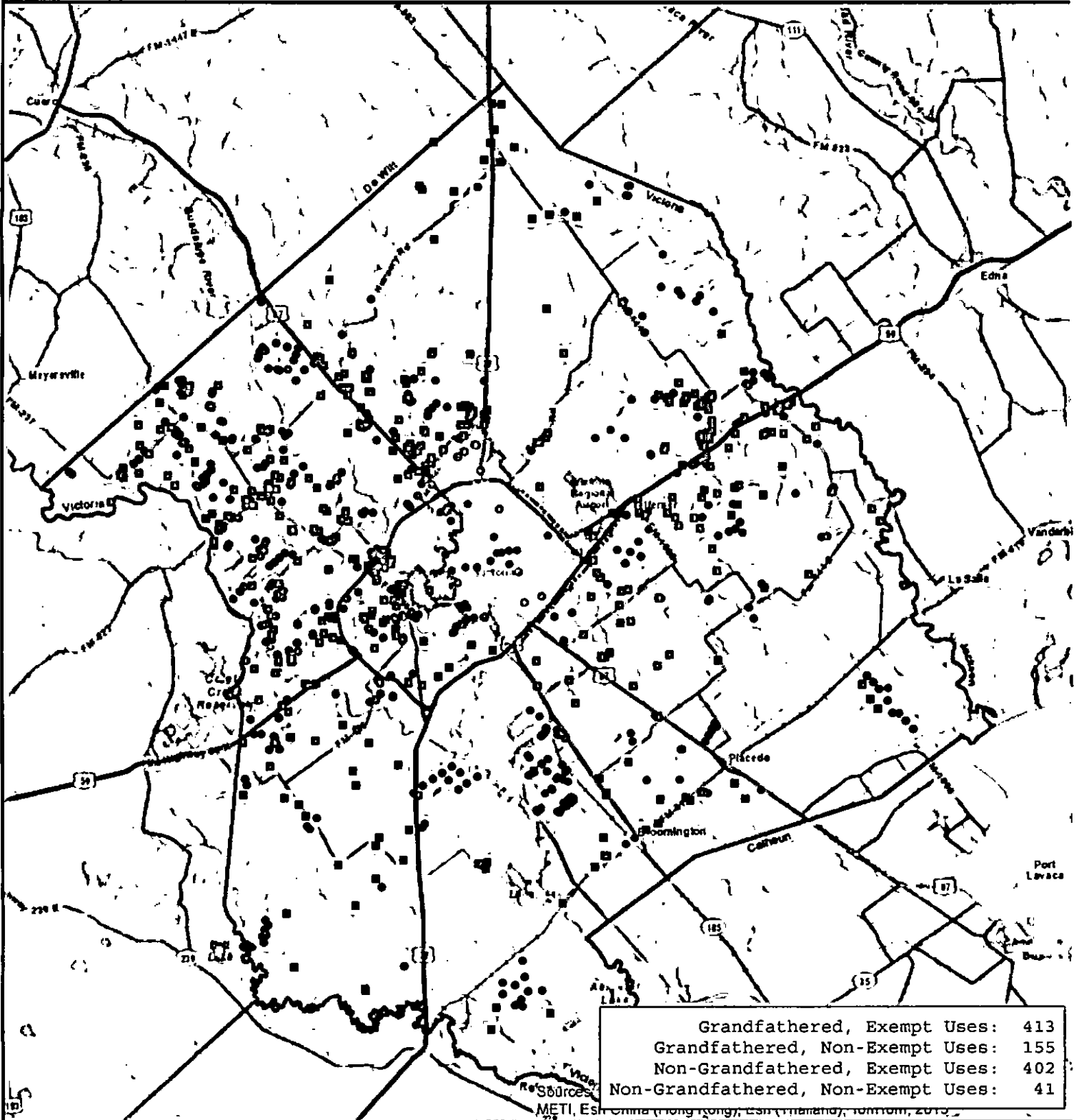
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 Phone: (361) 579-6863 | FAX: (361) 579-0041  
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# Aquifer Measurement Map

## Well Registrations



1 inch = 30,000 feet

Date: 10/23/2013

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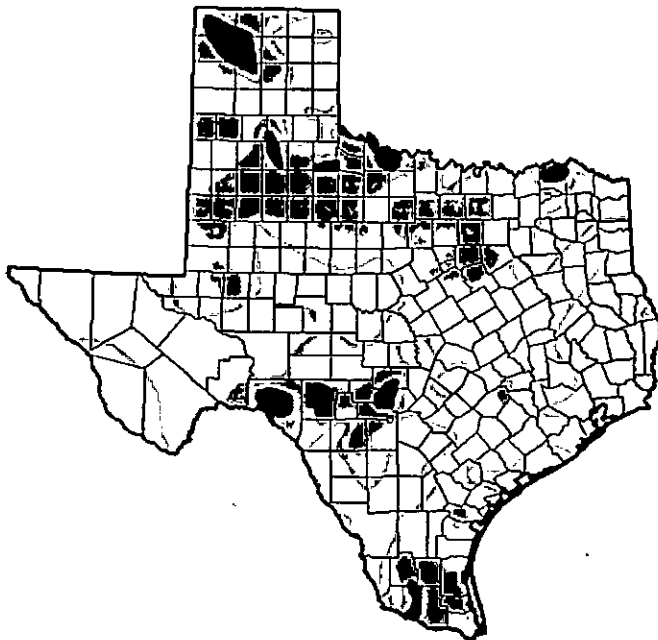
# Victoria County Groundwater Conservation District

## Drought Condition Monitoring – Texas Map

<http://droughtmonitor.unl.edu/Home/StateDroughtMonitor.aspx?TX>

**U.S. Drought Monitor  
Texas**

**October 15, 2013**  
(Released Thursday, Oct. 17, 2013)  
Valid 7 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	C+
Current	8.10	90.80	65.25	21.73	3.18	0.12
Last Week 15/10/13	6.60	83.40	70.47	25.41	4.41	0.12
3 Months Ago 7/6/2013	0.30	99.70	94.38	70.89	33.43	12.07
Start of Calendar Year 1/1/2013	3.04	98.88	87.00	65.39	35.03	11.88
Start of Water Year 10/1/2012	6.62	93.38	70.85	25.08	4.01	0.12
One Year Ago 10/16/2012	17.08	82.92	62.47	31.26	15.80	3.20

**Intensity:**

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

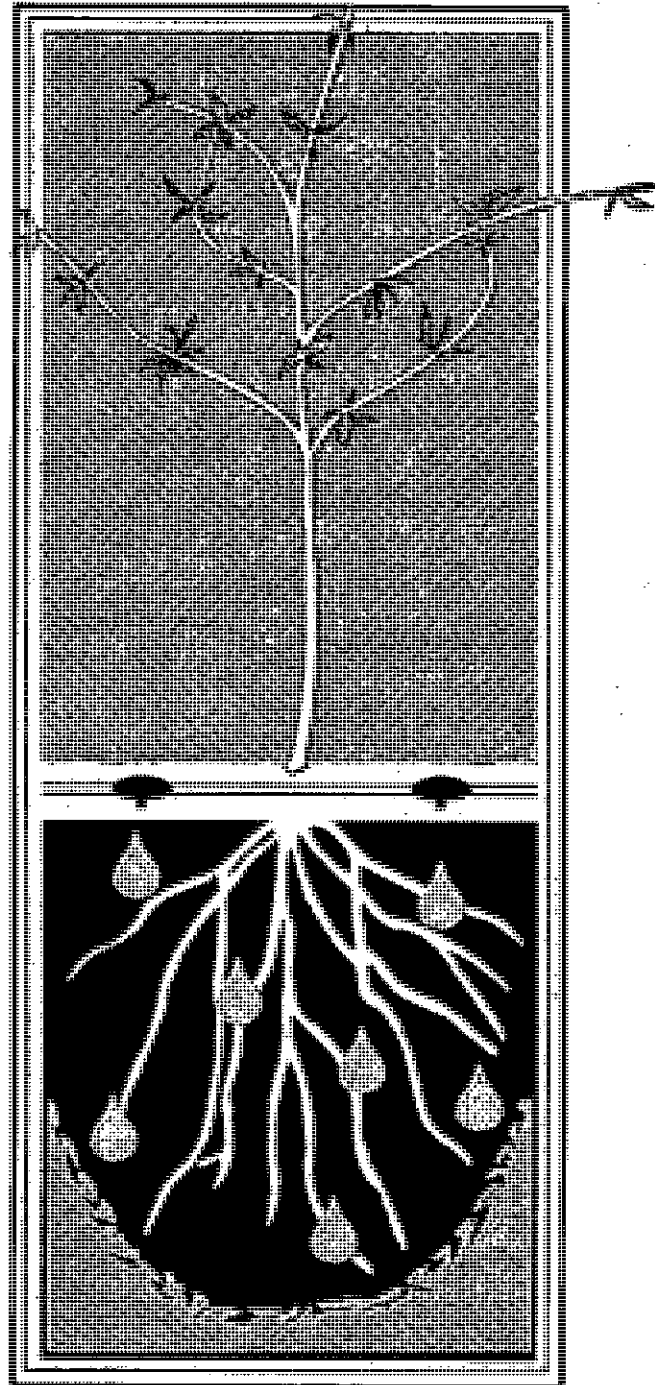
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:  
Richard Tinker  
CPC/NOAA/NWS/NCEP



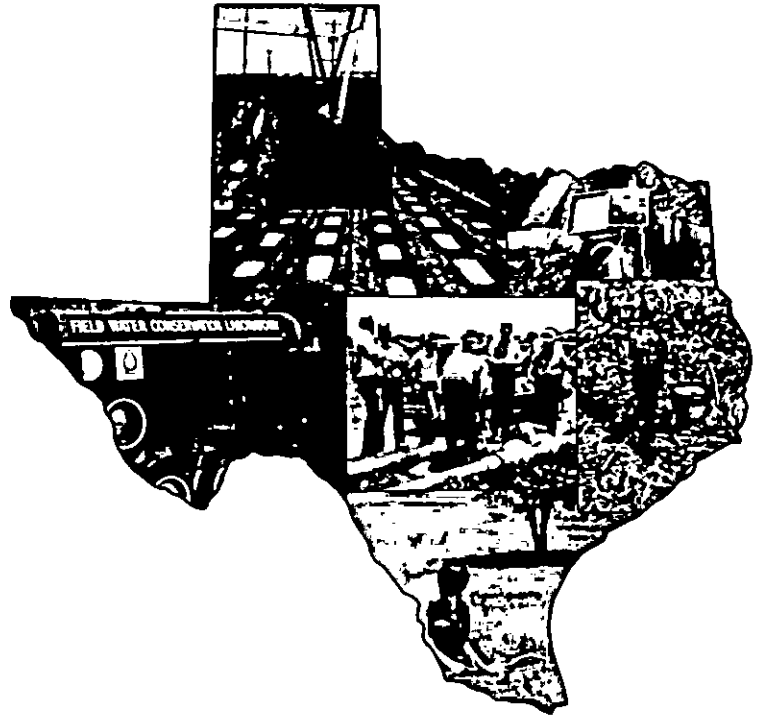
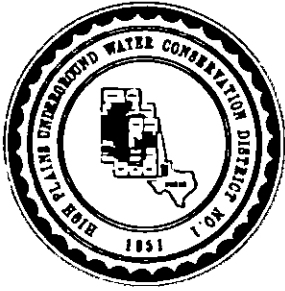
<http://droughtmonitor.unl.edu/>

# D RIP IRRIGATION

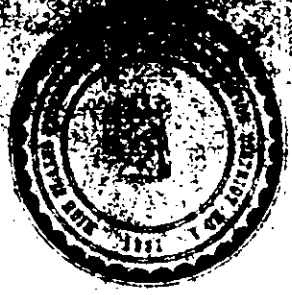
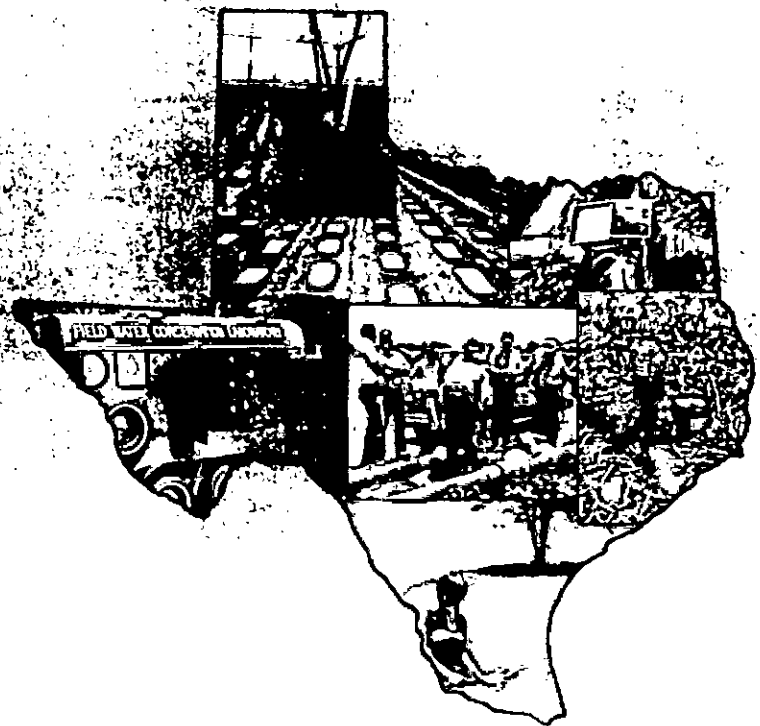


• *Saves Water* • *Saves Energy* • *Grows Healthier Plants*

# WATER MANAGEMENT NOTE



STATEMENT  
NOTE



SOIL MOISTURE MONITORING  
AN OVERVIEW OF MONITORING  
METHODS AND DEVICES



Questions

B-6120  
06-82

# Groundwater

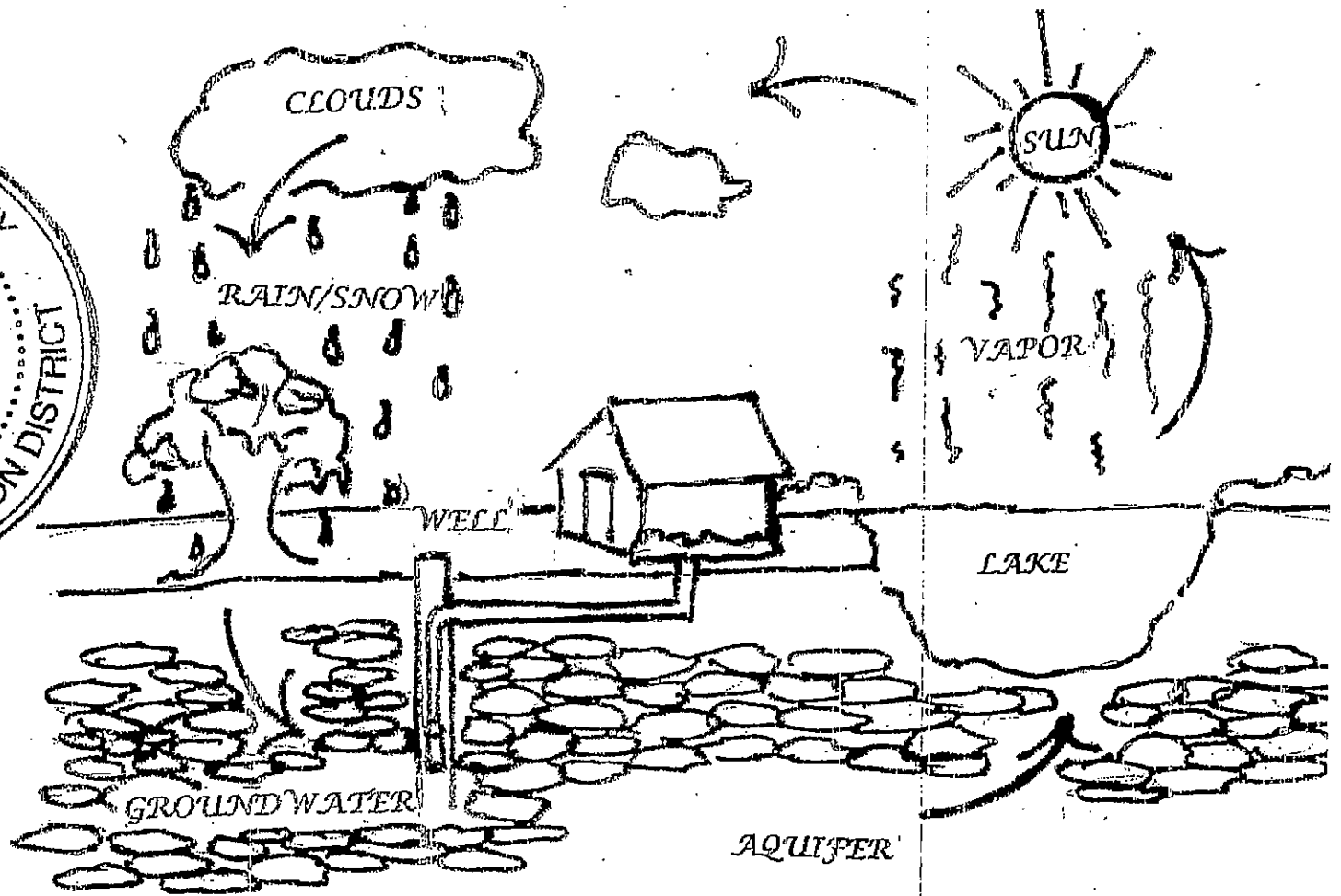
## Conservation Districts in Texas



about





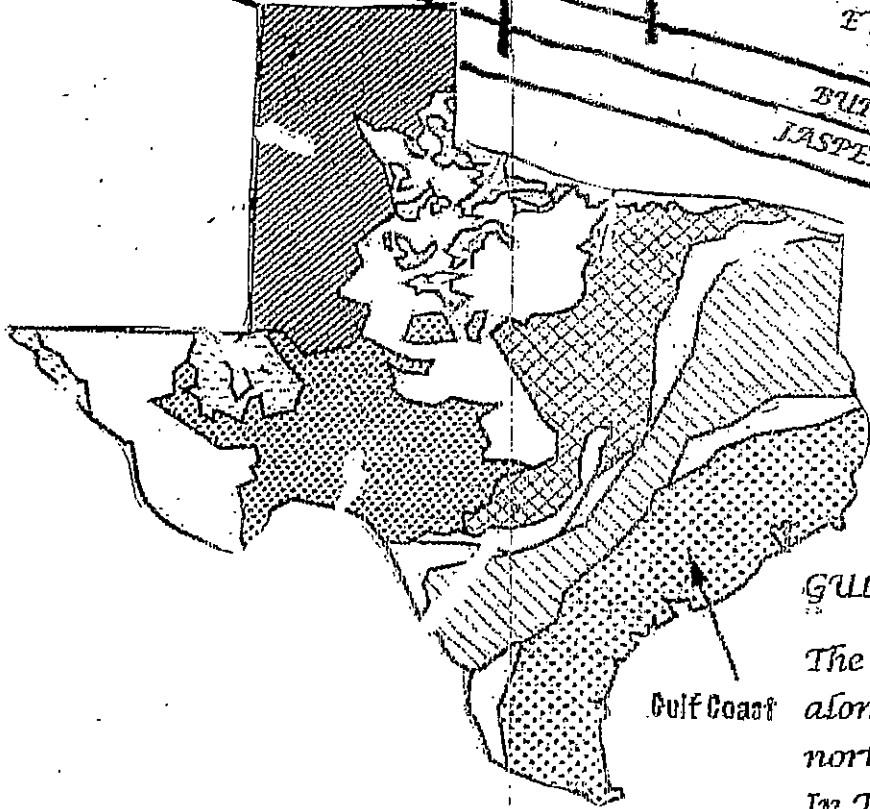
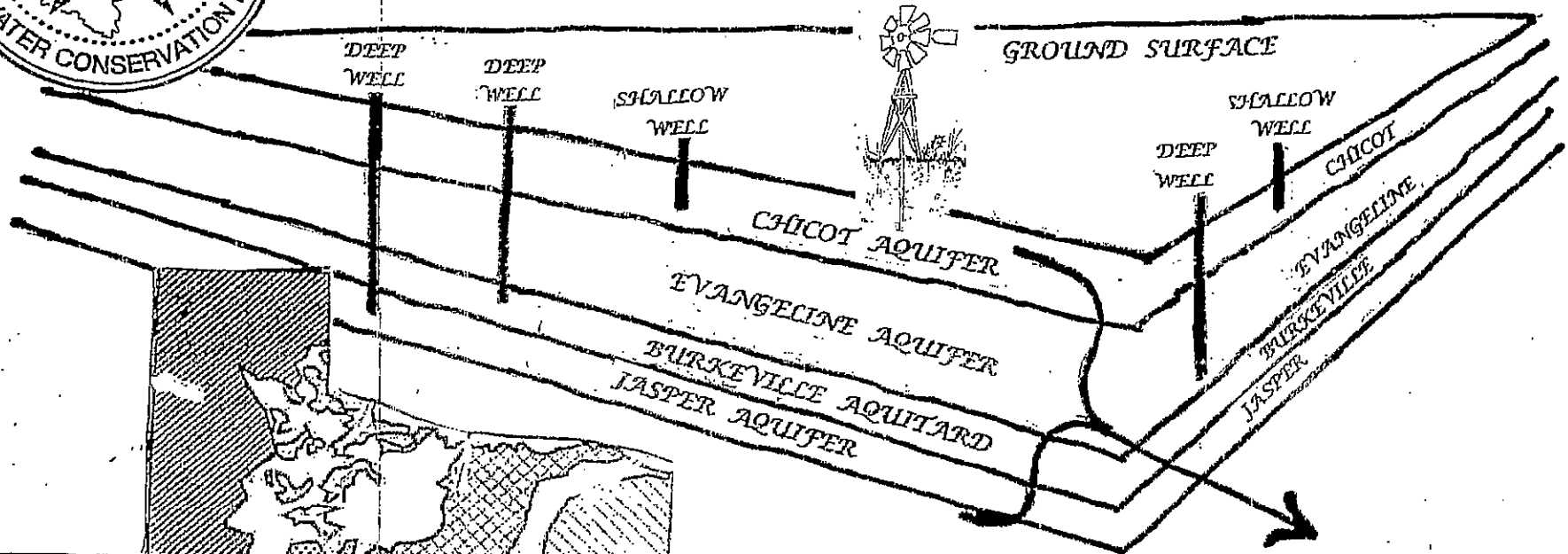


### WHAT IS GROUNDWATER?

Groundwater is water that is found underground in the cracks and spaces in soil and rock. Groundwater that is stored underground and can be retrieved for human use is said to be contained within an aquifer.



*The future of our groundwater resources depends on protection of aquifers from pollution and conservation of water to prevent over-use.*



**GULF COAST AQUIFER**

*Aquifer:  
An underground area  
of gravel and sand that  
stores and holds water.*

**GULF COAST AQUIFER**


*The Gulf Coast Aquifer forms a wide belt along the Gulf of Mexico from the Rio Grande northeastward to the Louisiana-Texas border. In Texas, the Gulf Coast Aquifer provides water to all parts of 54 counties, bordering the Gulf of Mexico.*

# Agricultural Water Conservation **Best Management Practices**

OVERVIEW



Texas Water Development Board  
Conservation Division



A Watering Guide for  
Texas Landscape

# Texas Water Development Board

[www.twdb.texas.gov](http://www.twdb.texas.gov)

P.O. Box 13231  
Austin, Texas 78711-3231



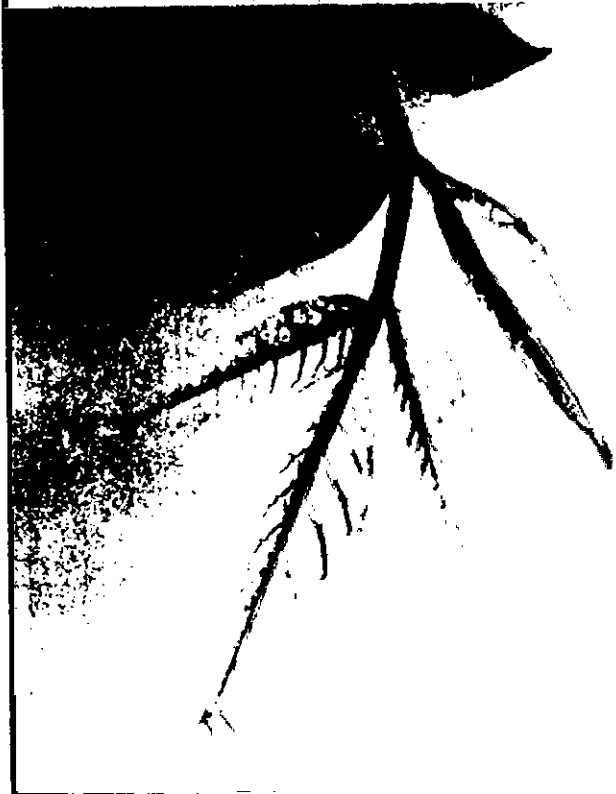
Know your water.

[www.wateriq.org](http://www.wateriq.org)

Visit the following Web site  
for additional information.  
[www.epa.gov/watersense](http://www.epa.gov/watersense)

04/13

## WATER CONSERVING TIPS



**USING WATER MORE EFFICIENTLY** will not only save money but, more importantly, will also help protect the quality of life of future Texans.

With the vastness of Texas, it's easy to forget two important facts about our state: we are subject to frequent droughts, and our population is projected to double in the next 50 years. The cost of developing new or additional supplies in that same time period is estimated to be \$30.7 billion.

To ensure that we have enough cost-effective water for current and future Texans, we need to reduce the amount of water we waste.

# Texas Water Development Board

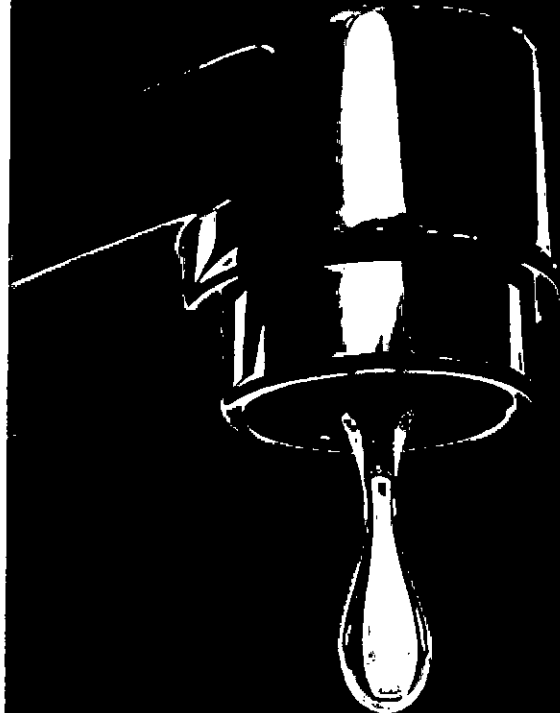
[www.twdb.texas.gov](http://www.twdb.texas.gov)

P.O. Box 13231  
Austin, Texas 78711-3231



Visit the following Web site  
for additional information.  
[www.epa.gov/watersense](http://www.epa.gov/watersense)

## CONSERVING WATER INDOORS



**YOU CAN EASILY SAVE** a minimum of 20 gallons per day just by installing water-efficient fixtures and reducing leaks.

Per capita water use in Texas averages 164 gallons per person per day. By adopting water-saving measures, you can reduce that amount and save money. Making a habit of conservation makes sense. It protects the water resources of both current and future Texans.

# WATER IQ

Know your water.

WaterIQ.org is a public awareness water conservation program that educates Texans through a variety of materials and a dedicated network of groups and communities.

## Water Data for Texas

WaterDataforTexas.org provides the most comprehensive information available on current conditions in major water supply reservoirs in Texas.

HOW DO TEXAS AG  
PRODUCERS DEAL WITH

*drought?*



Austin, Texas 78711-3231 (512) 463-7847

AGRICULTURAL WATER  
CONSERVATION IN TEXAS

Texas Water  
Development Board

# **Victoria County Groundwater Conservation District's Select Resources related to Groundwater Resources**

## **Groundwater Conservation**

Water Conservation Best Management Practices Guide, Texas Water Development Board, Report 362, 2004

Link: <http://www.twdb.state.tx.us/conservation/municipal/plans/doc/WCITFBMPGuide.pdf>

## **Rainwater Harvesting**

The Texas Manual on Rainwater Harvesting, Texas Water Development Board, Third Edition, 2005

Link: [http://www.twdb.state.tx.us/publications/reports/RainwaterHarvestingManual\\_3rdedition.pdf](http://www.twdb.state.tx.us/publications/reports/RainwaterHarvestingManual_3rdedition.pdf)

Harvested Rainwater

Website: <http://rainwater.sustainablesources.com/>

## **Recharge Enhancement**

Technical Evaluation Procedures for Edwards Aquifer Recharge Enhancement, South Central Regional Planning Group (Region L), 2011 Regional Water Plan, 2010

Link: [http://www.regionltexas.org/2011\\_RegWaterPlan/2011\\_vol2/AppendixC.pdf](http://www.regionltexas.org/2011_RegWaterPlan/2011_vol2/AppendixC.pdf)

## **Brush Control**

Effects of Brush Management on Water Resources, Texas Water Resources Institute, TAMU AgriLife, 2008

Link: [http://www.tsswcb.texas.gov/files/docs/Jones\\_Gregory\\_2008\\_TR-338.pdf](http://www.tsswcb.texas.gov/files/docs/Jones_Gregory_2008_TR-338.pdf)

Brush Busters – Brush Control Program

Website: <http://texnat.tamu.edu/about/brush-busters/>



# “Groundwater Situation Report”

2013 South Texas Farm and Ranch Show

Victoria Texas

October 24, 2013

Tim Andruss



# Presentation Topics

- ◊ District Overview
- ◊ Status Reports:
  - ◊ Regional Water Planning
  - ◊ Rule Making and Permitting
  - ◊ Aquifer Monitoring



# Victoria County Groundwater Conservation District (VCGCD)

- ◊ Created by Texas Legislature and Confirmed by Victoria County Voters in 2005.
- ◊ Board of Directors comprised of 5 Locally-Elected Directors:
  - ◊ Mark Meek, Precinct 4, Board President
  - ◊ Jerry Hroch, Precinct 1, Board Vice-President
  - ◊ Barbara Dietzel, Precinct 3, Board Secretary
  - ◊ Thurman S. Clements Jr., Precinct 2, Board Director
  - ◊ Kenneth Eller, At-Large, Board Director



# District Background

- ◊ Mission: "...to conserve, preserve, protect, and prevent waste of groundwater resources within Victoria County..."
- ◊ Method: "...the acquisition and dissemination of hydrogeologic information, the development of programs and incentives to conserve and protect groundwater resources, and the adoption and enforcement of fair and appropriate District rules governing the production and use of the groundwater resources..."



# District Background

## Generalization of Fundamental Policies

- ◆ Manage for Long-Term Sustainability
- ◆ Protect Historic Use
- ◆ Exempt Certain Groundwater Uses from Certain Permitting and Registration Requirements (e.g. Domestic and Livestock Wells)
- ◆ Permit Non-Historic Groundwater Production based on Acreage Owned or Controlled and Spacing relative to other Wells (1/2 acre-foot of production per acre owned or controlled)



# Primary Activities

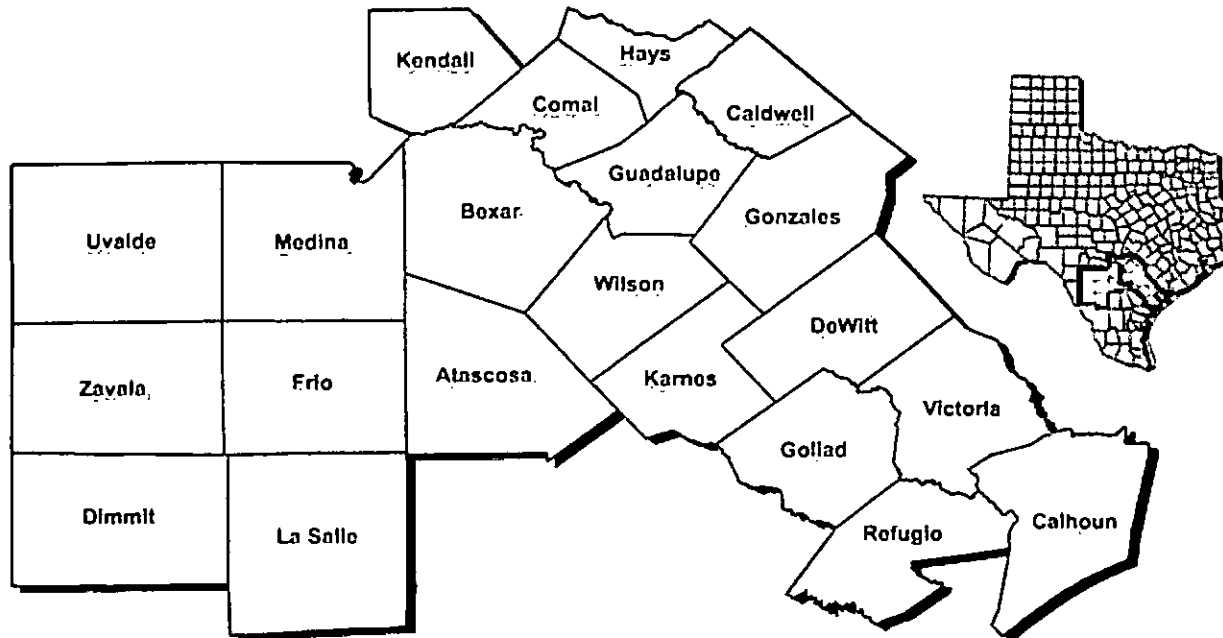
- ◆ Planning
- ◆ Permitting – Rules Adopted in 2008
- ◆ Aquifer Monitoring
- ◆ Research and Investigation
- ◆ Public Education



# Situation Report: Regional Water Planning



# South Central Texas Regional Water Planning Area





# Regional Water Planning

- ◆ South Central Texas Regional Water Planning Group (aka Region L)

“Available Supplies”

“Present Supplies(+) or Needs(-)”

– “Present Demands”

– “Future Demands”

“Present Supplies(+) or Needs(-)”

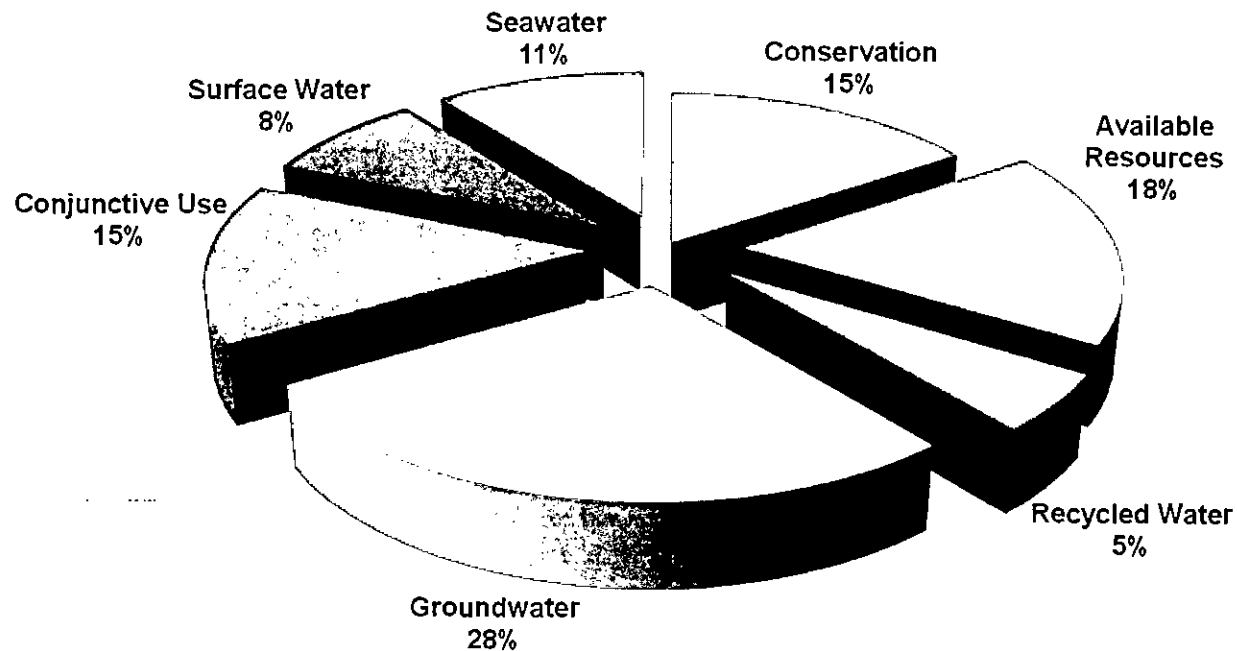
“Future Need”

- ◆ Conceptualize “Water Management Strategies” (WMS) to provided water to the “Future Needs”
- ◆ WMS (i.e. future water project) can include Groundwater Development Projects.



# 2011 Region L WMS

Figure 4B.1-2. Sources of New Supply in 2060



Source: 2011 South Central Texas Regional Water Plan,  
Volume I – September 2010, Figure 4B.1-2



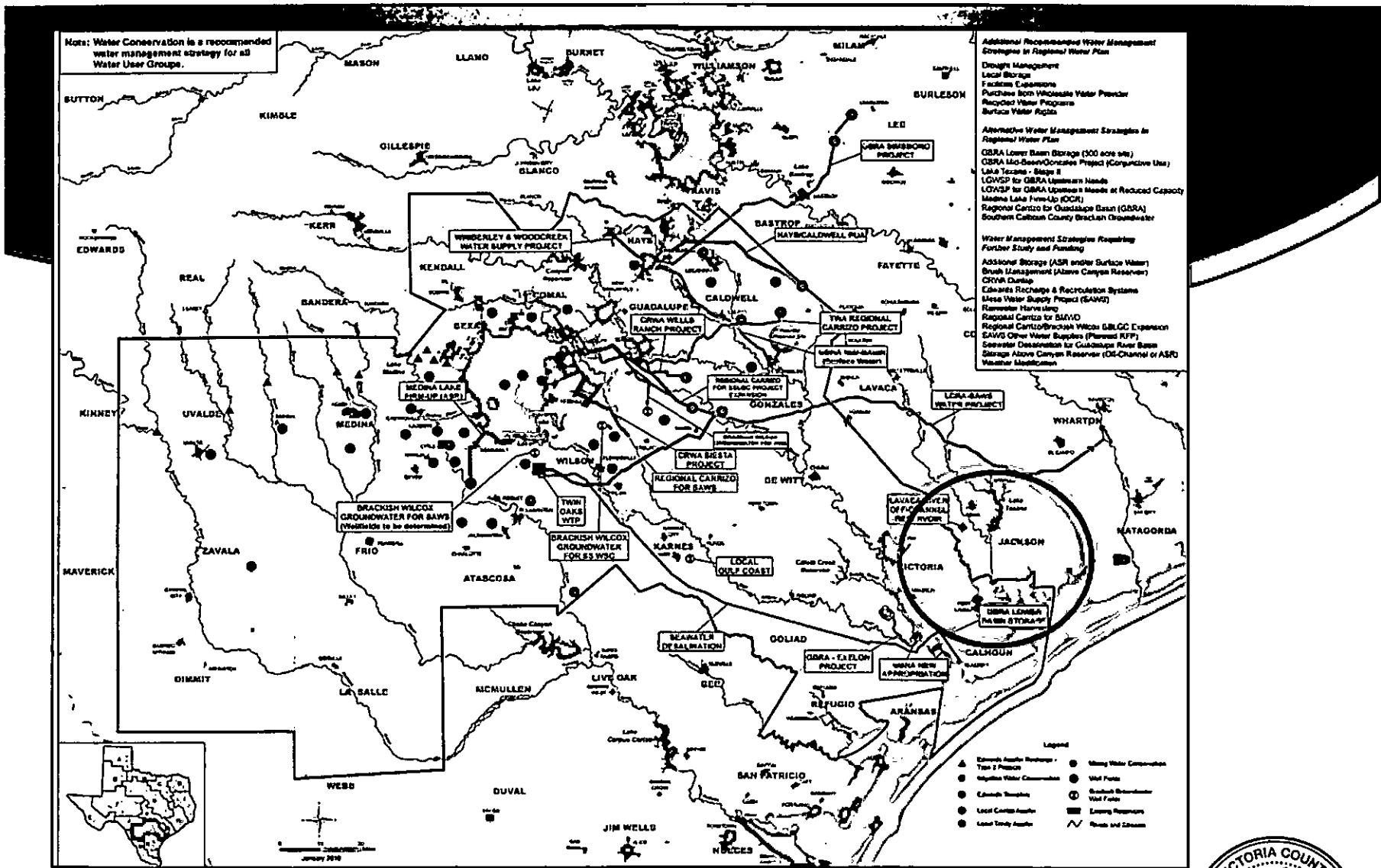
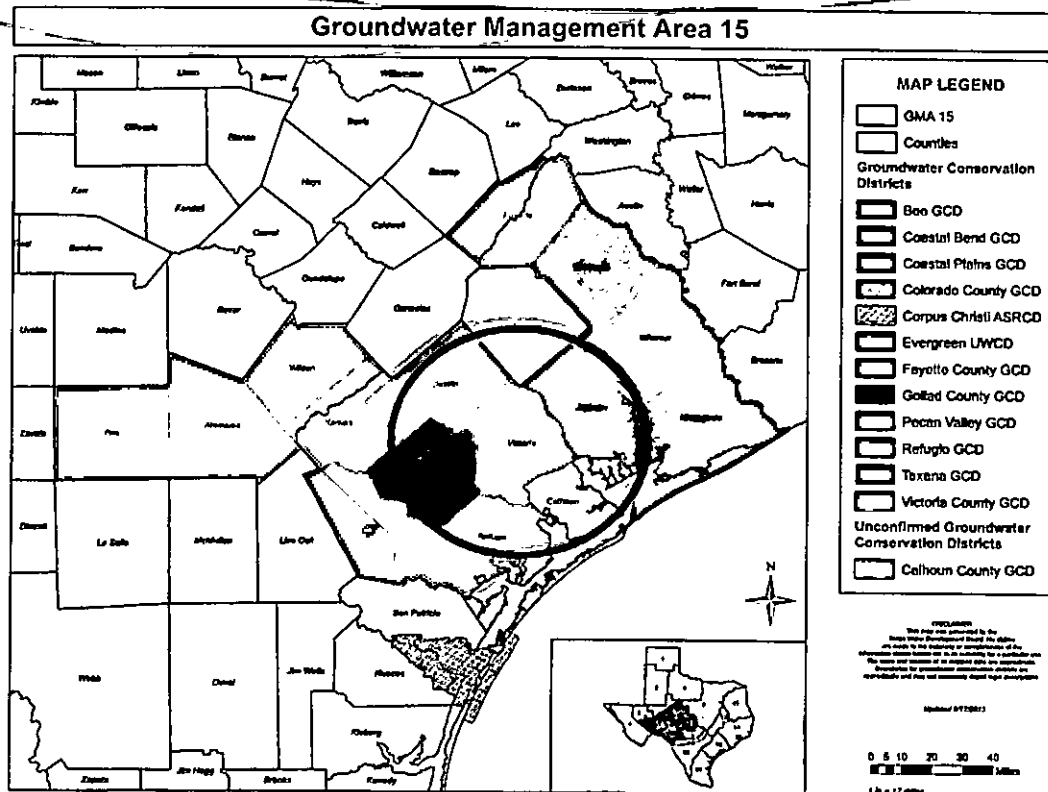


Figure 4B.1-4. Recommended Water Management Strategies

Source: 2011 South Central Texas Regional Water Plan, Volume I – September 2010, Figure 4B.1-2



# Groundwater Management Area 15 (GMA 15)



# Groundwater Planning

- ◆ Desired Future Condition (DFC): Management Goal for Groundwater Conservation Districts
- ◆ Modeled Available Groundwater (MAG): Amount of Groundwater that (at least theoretically) that can be permitted and produced along with non-permitted production and achieve the DFC.



# GMA 15 Desired Future Condition

An average drawdown of the Gulf Coast Aquifer within the GMA 15 boundary of 12 feet relative to year 1999 starting conditions in accordance with Table 7 of GAM Run 10-008  
Addendum.



# GMA 15 Modeled Available Groundwater

Groundwater Conservation District	Year					
	2010	2020	2030	2040	2050	2060
Bee GCD	9,504	9,504	9,480	9,480	9,428	9,428
Calhoun County GCD*	2,995	2,995	2,995	2,995	2,995	2,995
Coastal Bend GCD	178,493	178,493	178,493	178,493	178,493	178,493
Coastal Plains GCD	45,896	45,896	45,896	45,896	45,896	45,896
Colorado County GCD	48,953	48,953	48,953	48,953	48,953	48,953
Evergreen UWCD	3,243	3,235	3,230	3,226	3,222	3,116
Fayette County GCD	9,204	9,073	8,905	8,895	8,886	8,856
Goñad County GCD	11,699	11,699	11,699	11,699	11,699	11,699
Lavaca County GCD*	20,385	20,385	20,385	20,385	20,378	20,373
Pecan Valley GCD	14,701	14,636	14,630	14,619	14,616	14,616
Refugio GCD	29,328	29,328	29,328	29,328	29,328	29,328
<del>Texas GCD</del>	<del>76,386</del>	<del>76,386</del>	<del>76,386</del>	<del>76,386</del>	<del>76,386</del>	<del>76,386</del>
Victoria County GCD	35,694	35,694	35,694	35,694	35,694	35,694
<b>Total (excluding non-district areas)</b>	<b>483,486</b>	<b>483,282</b>	<b>483,079</b>	<b>483,054</b>	<b>482,979</b>	<b>482,838</b>
No District	1,872	1,872	1,872	1,872	1,872	1,872
<b>Total (including non-district areas)</b>	<b>488,353</b>	<b>488,149</b>	<b>487,946</b>	<b>487,921</b>	<b>487,846</b>	<b>487,705</b>

Source: Texas Water Development Board, GR10-028\_MAG



# Situation Report: Rule Making and Permitting





# Rule Making

- ◊ VCGCD adopted rules related to water well registration, validating historic use, permitting procedures, water well spacing requirements, and groundwater production limitations in 2008.
- ◊ VCGCD is presently revising the District's Rules with Possible Adoption in November 2013.
- ◊ Fundamental Policies regarding Registration, Historic Use, and Well Spacing and Production Limitations remain in the Proposed Rules.

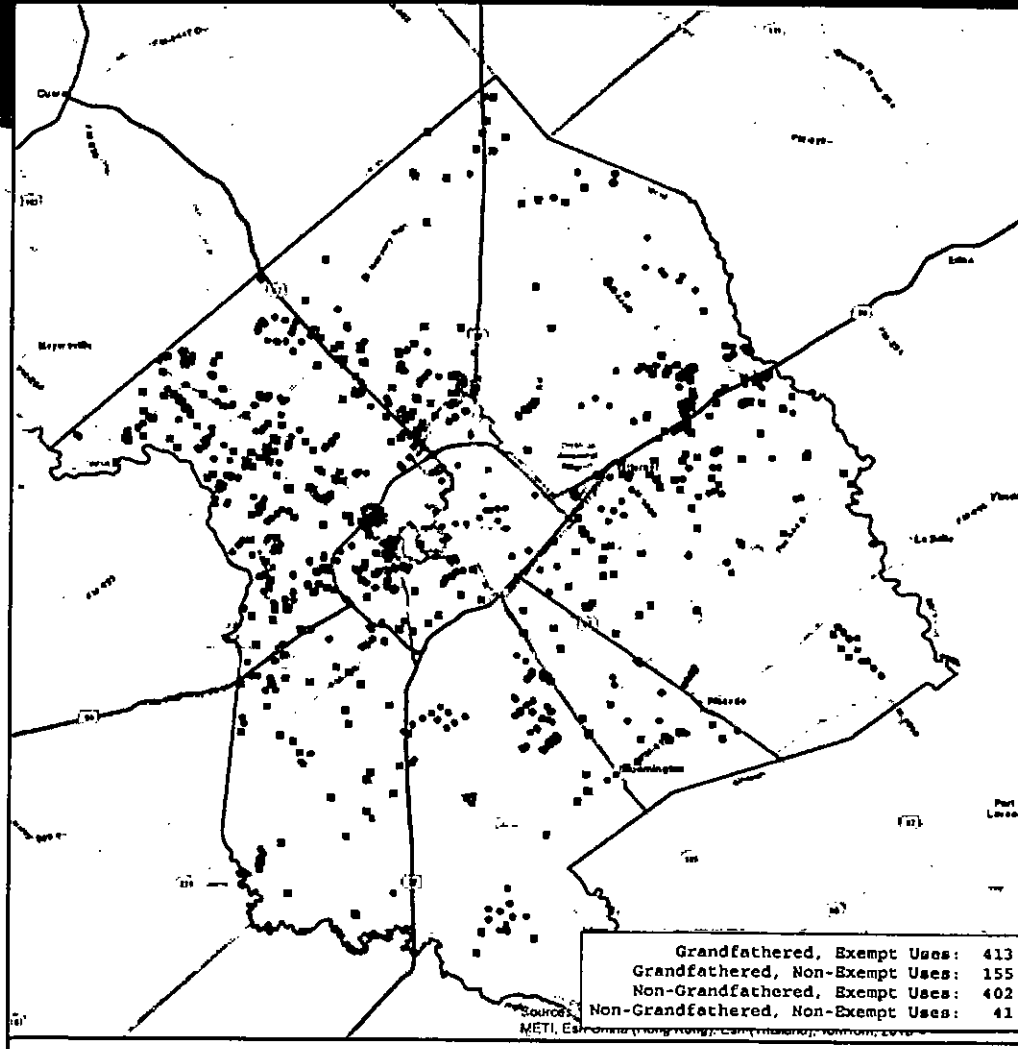


# Proposed Rule Revisions related to Agriculture

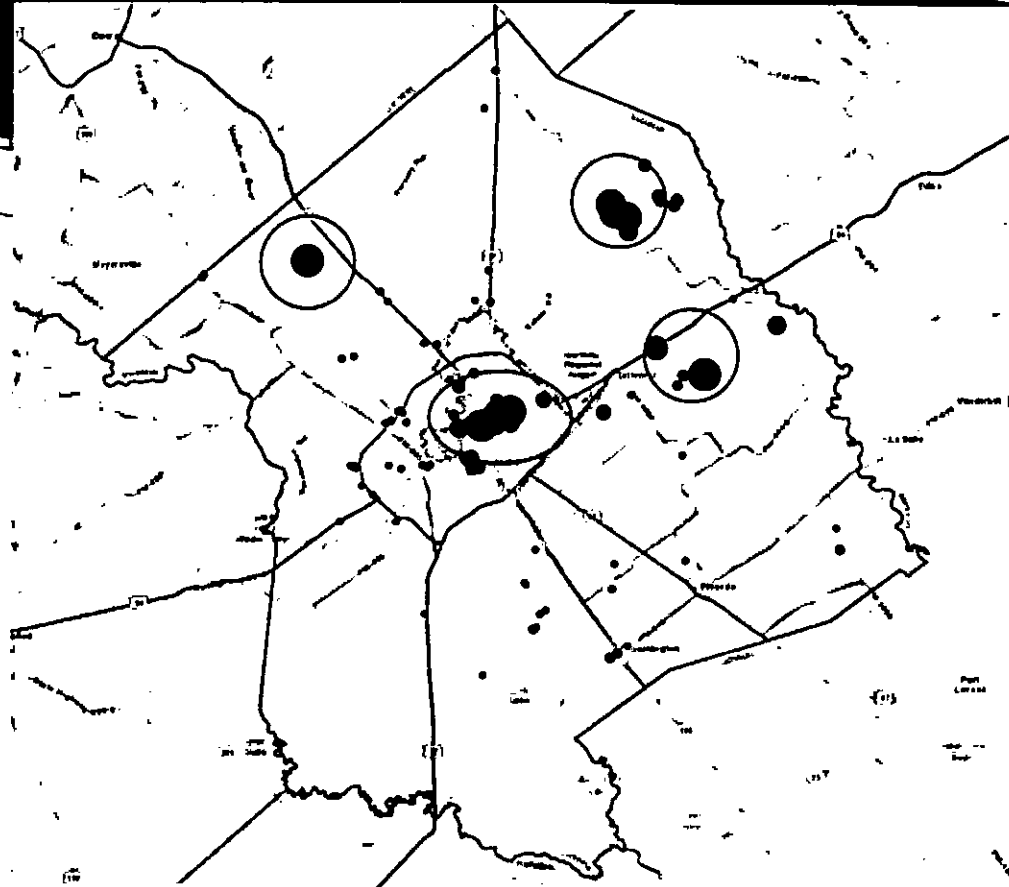
- ◊ Deadline for applying for protection of historic use set at **December 31, 2015.**
- ◊ Expansion of Historic Use Validation Period.
- ◊ Rules defined to allow for effective aggregate production permitting for well fields and well systems
- ◊ Annual Groundwater Production Reporting for Permitted, Non-Exempt Use Wells (e.g. irrigation wells)



# Well Registration



# Production Permitting



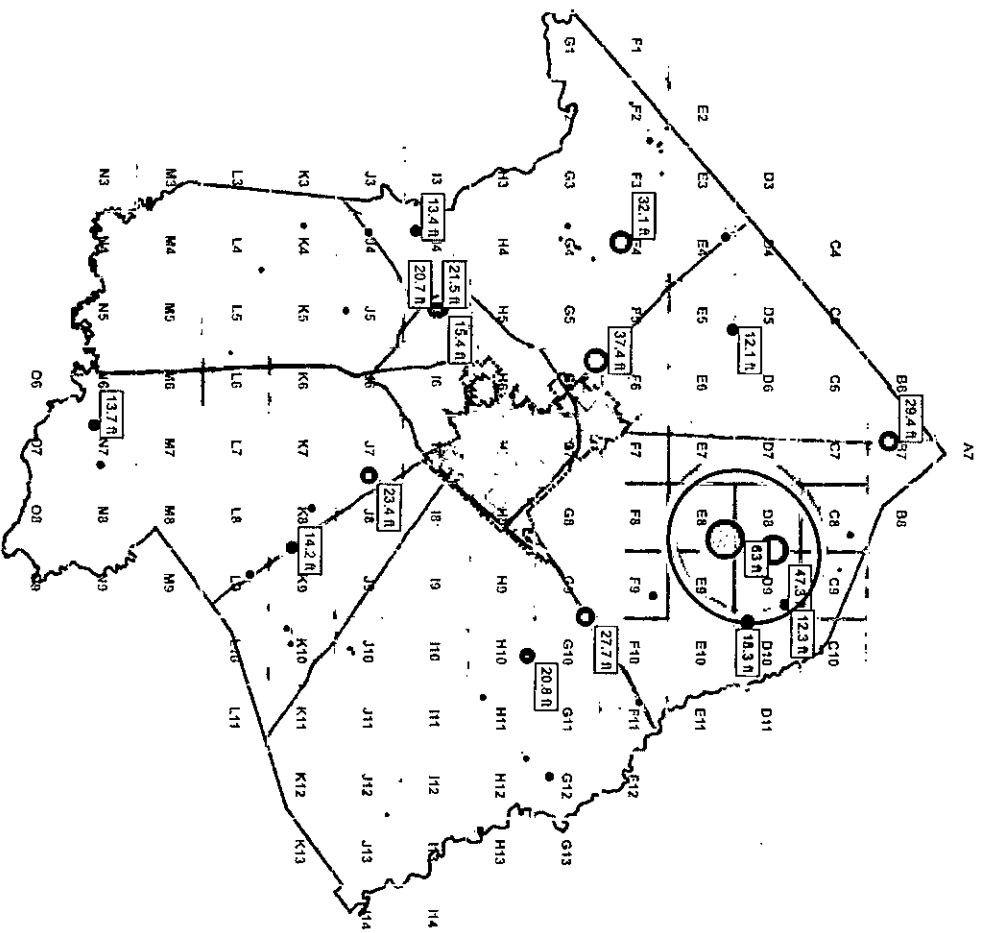
Permit Type	Number of Permits	Total Production (AFY)
Historic Use Validation - Multiple Well Permit	6	2504
Historic Use Validation - Single Well Permit	79	26582
Non-Historic Operation - Single Well Permit	62	2086



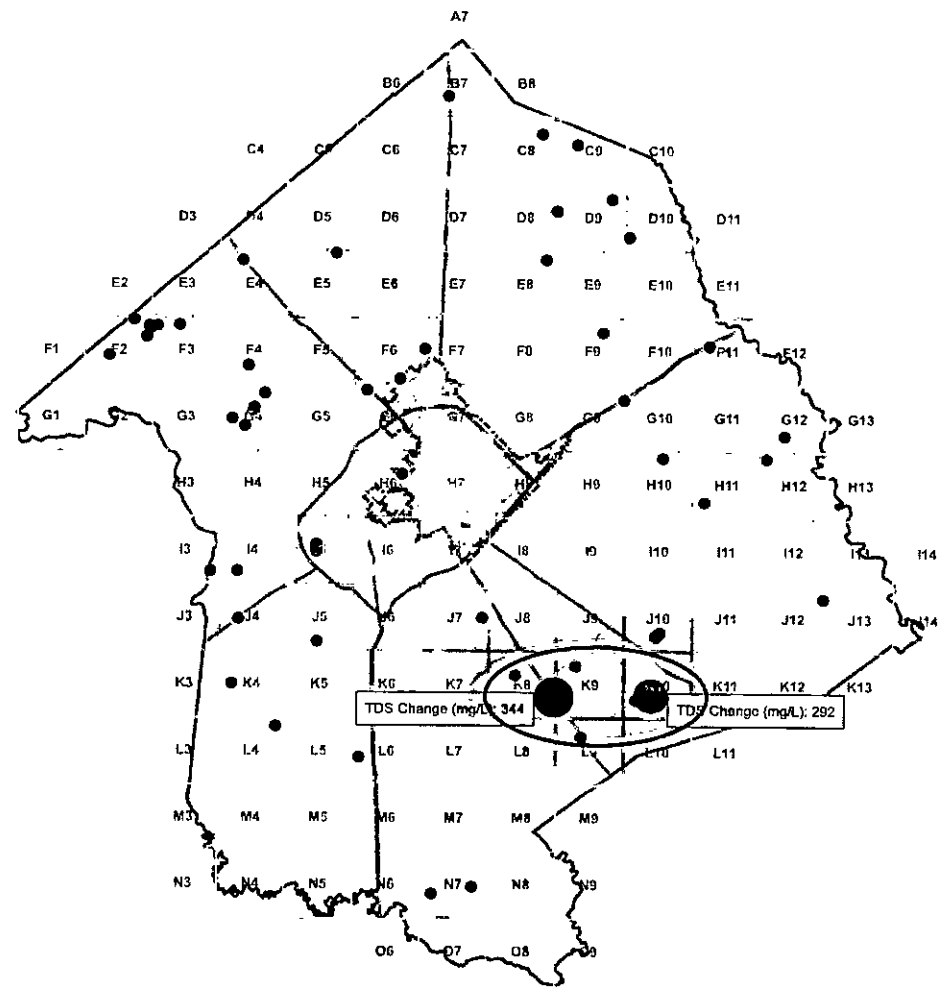
# Situation Report: Aquifer Monitoring



# Water Well - Water Level Variation



# Water Well - TDS Variation



# Conclusions

- ◆ Groundwater will be looked to as a supply for future needs.
- ◆ Groundwater resources will be managed/regulated/ permitted in order to protect, conserve and preserve the resource.
- ◆ Aquifer monitoring will need to continue and grow to ensure groundwater resources are managed and developed in a sustainable manner





# Thank You

Tim Andruss, General Manager

Victoria County Groundwater Conservation

2805 N. Navarro St., Suite 210  
Victoria, Texas 77901

Phone: (361) 579 -6863

Email: [tim.andruss@vcgcd.org](mailto:tim.andruss@vcgcd.org)



Fiscal Year – 2013 - 2014 Annual Report  
Attachment 5



VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT

Travel and Expense Claim

TO: VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT

CHECK IF:  ADVANCE  REIMBURSEMENT

Handwritten notes: Jd 4-28-14 CR# 3112 \$126.56 4-29-14 RE 4-28-14 B-D

PAYABLE TO: Tim Andrus

TRAVEL LOCATION: Region L - San Antonio, TX

PURPOSE OF TRIP: Region L Executive Committee Workshop

DATE(S) EXPENSES WERE INCURRED: 4/23/14

AUTOMOBILE MILEAGE: (113 miles x 2 = 226 miles) 226 MILES @ 0.56 PER MILE \$ 126.56

MEALS: KENNETH TIM THURMAN MARK BARBARA B of D MTG. \$ \_\_\_\_\_

LODGING ..... \$ \_\_\_\_\_

REGISTRATION FEES ..... \$ \_\_\_\_\_

TIPS AND INCIDENTALS ..... \$ \_\_\_\_\_

OTHER EXPENSES (EXPLAIN) \_\_\_\_\_ \$ \_\_\_\_\_

SUBTOTAL ..... \$ 126.56

LESS ADVANCE (IF ANY) ..... \$ 0.00

TOTAL DUE EMPLOYEE ..... \$ 126.56

I certify that the expenses listed above were incurred by me in the performance of official VCGCD business and I have not received reimbursement from any other source.

SIGNATURE: [Signature]

DATE: 4/28/14

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

DEPT. APPROVAL \_\_\_\_\_

DATE: \_\_\_\_\_

\*ATTACH TICKETS, RECEIPTS, OR OTHER SUPPORTING DOCUMENTATION.



INVOICE: 2013-218

VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT

Travel and Expense Claim

pd 11/6/13  
CK#12972  
DY

11-12-13  
B.D.  
11-15-13  
KE

TO: VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT

CHECK IF:  ADVANCE  REIMBURSEMENT

PAYABLE TO: Tim Andruss

TRAVEL LOCATION: San Antonio River Authority - San Antonio, TX 78204 <sup>100 E Guenther Street</sup>

PURPOSE OF TRIP: Mag work Group

DATE(S) EXPENSES WERE INCURRED: 11-6-13

AUTOMOBILE MILEAGE: 234 MILES @ 0.565 PER MILE \$ 132.21  
<sup>117 miles x 2</sup>

MEALS: KENNETH TIM THURMAN MARK BARBARA B of D MTG. \$ \_\_\_\_\_

LODGING ..... \$ \_\_\_\_\_

REGISTRATION FEES ..... \$ \_\_\_\_\_

TIPS AND INCIDENTALS ..... \$ \_\_\_\_\_

OTHER EXPENSES (EXPLAIN) \_\_\_\_\_ \$ \_\_\_\_\_

SUBTOTAL ..... \$ 132.21

LESS ADVANCE (IF ANY) ..... \$ 0.00

TOTAL DUE EMPLOYEE ..... \$ 132.21

I certify that the expenses listed above were incurred by me in the performance of official VCGCD business and I have not received reimbursement from any other source.

SIGNATURE: [Signature]

DATE: 11/6/13

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

DEPT. APPROVAL \_\_\_\_\_

DATE: \_\_\_\_\_

\*ATTACH TICKETS, RECEIPTS, OR OTHER SUPPORTING DOCUMENTATION.



INVOICE: 2013-219

VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT

pr 11/8/13  
CK # 2973  
Dy

Travel and Expense Claim

11-12-13  
BD

TO: VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT

CHECK IF:  ADVANCE  REIMBURSEMENT

11-15-13  
JE

PAYABLE TO: Tim Andruss

TRAVEL LOCATION: San Antonio Water System, 2800 US Hwy 281N,

PURPOSE OF TRIP: Region L meeting San Antonio, TX

DATE(S) EXPENSES WERE INCURRED: Nov 7, 2013

<sup>115 miles x 2</sup>  
AUTOMOBILE MILEAGE: 230 MILES @ 0.565 PER MILE \$ 129.95

MEALS: KENNETH TIM THURMAN MARK BARBARA B of D MTG. \$ \_\_\_\_\_

LODGING ..... \$ \_\_\_\_\_

REGISTRATION FEES ..... \$ \_\_\_\_\_

TIPS AND INCIDENTALS ..... \$ \_\_\_\_\_

OTHER EXPENSES (EXPLAIN) \_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

SUBTOTAL ..... \$ 129.95

LESS ADVANCE (IF ANY) ..... \$ 0.00

TOTAL DUE EMPLOYEE ..... \$ 129.95

I certify that the expenses listed above were incurred by me in the performance of official VCGCD business and I have not received reimbursement from any other source.

SIGNATURE: [Signature]

DATE: 11/8/13

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

DEPT. APPROVAL \_\_\_\_\_

DATE: \_\_\_\_\_

\*ATTACH TICKETS, RECEIPTS, OR OTHER SUPPORTING DOCUMENTATION.



VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT

Travel and Expense Claim

7-31-14  
KE  
7/30/14  
B.W.

TO: VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT

CHECK IF:  ADVANCE  REIMBURSEMENT

PAYABLE TO: Tim Andruss

TRAVEL LOCATION: From Victoria GCD to Gonzales to San Antonio

PURPOSE OF TRIP: Staff Workshop Meeting (Region L)

DATE(S) EXPENSES WERE INCURRED: 7/24/2014

133 miles x 2  
AUTOMOBILE MILEAGE: 266 MILES @ 0.56 PER MILE \$ 148.96

MEALS: KENNETH TIM THURMAN MARK BARBARA B of D MTG. \$ \_\_\_\_\_

LODGING ..... \$ \_\_\_\_\_

REGISTRATION FEES ..... \$ \_\_\_\_\_

TIPS AND INCIDENTALS ..... \$ \_\_\_\_\_

OTHER EXPENSES (EXPLAIN) \_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

SUBTOTAL ..... \$ 148.96

LESS ADVANCE (IF ANY) ..... \$ 0.00

TOTAL DUE EMPLOYEE ..... \$ 148.96

I certify that the expenses listed above were incurred by me in the performance of official VCGCD business and I have not received reimbursement from any other source.

SIGNATURE: [Signature]

DATE: 7/29/14

TITLE: \_\_\_\_\_

DATE: \_\_\_\_\_

DEPT. APPROVAL \_\_\_\_\_

DATE: \_\_\_\_\_

\*ATTACH TICKETS, RECEIPTS, OR OTHER SUPPORTING DOCUMENTATION.



8-11-14 BT 8-11-14 KE

INVOICE: 2014-238

VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT

Travel and Expense Claim

pd 8/8/14  
CK # 3159

TO: VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT

CHECK IF:  ADVANCE  REIMBURSEMENT

PAYABLE TO: Tim Andrews

TRAVEL LOCATION: San Antonio Water System, San Antonio, TX

PURPOSE OF TRIP: to attend Region L mtg.

DATE(S) EXPENSES WERE INCURRED: 8/7/2014

AUTOMOBILE MILEAGE: 115 miles x 2 = 230 MILES @ 0.56 PER MILE \$ 128.80

MEALS: KENNETH TIM THURMAN MARK BARBARA B of D MTG. \$ \_\_\_\_\_

LODGING ..... \$ \_\_\_\_\_

REGISTRATION FEES ..... \$ \_\_\_\_\_

TIPS AND INCIDENTALS ..... \$ \_\_\_\_\_

OTHER EXPENSES (EXPLAIN) \_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

\_\_\_\_\_ \$ \_\_\_\_\_

SUBTOTAL ..... \$ 128.80

LESS ADVANCE (IF ANY) ..... \$ 0.00

TOTAL DUE EMPLOYEE ..... \$ 128.80

I certify that the expenses listed above were incurred by me in the performance of official VCGCD business and I have not received reimbursement from any other source.

SIGNATURE: [Signature]

DATE: 8/8/14

TITLE: GM

DATE: \_\_\_\_\_

DEPT. APPROVAL \_\_\_\_\_

DATE: \_\_\_\_\_

\*ATTACH TICKETS, RECEIPTS, OR OTHER SUPPORTING DOCUMENTATION.

Fiscal Year – 2013 - 2014 Annual Report  
Attachment 6



WLM-2013/001-01

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-27-13	8:40 AM	AW-00027	
Location: 1570 FM 3085			
Contact: Danell Swoboda			
Access Notes: -			

Field Notes:	-
--------------	---

## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: Steel Tape

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70.0	40.25	0.2	29.55
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: Steel Tape

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
65.0	35.27	0.2	29.53
Measurement Note:			

Sign and Date:	Tim Faltysek	10-01-13
----------------	--------------	----------

WLM-2013/001-02

# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-27-13	9:05 AM	DW-000189	
Location: 1570 FM 3085			
Contact: Daniel Swoboda			
Access Notes:			

Field Notes:	—
--------------	---

### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: Steel Tape

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40.	14.8	1.5	23.7
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
Measurement Note:			

Sign and Date:	<div style="display: flex; justify-content: space-between;"> <span>Tim Faltysek</span> <span>10-01-13</span> </div>
----------------	---

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-27-13	9:27am	HW-000192	
Location:			
Contact: Daniel Swobady			
Access Notes:			

Field Notes:
--------------

## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: Steel Tape

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70.0	39.5	1.2	29.3
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: Steel Tape

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	24.7	1.2	29.1
Measurement Note: —			

Sign and Date:	Jim Faltysek 10-2-13
----------------	----------------------

WLM-2013/001-04

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-27-13	1:21pm	DW-000590	TF -
Location: 28°51.612N -96°54.671.W			
Contact: Jim Rosenguest			
Access Notes: —			

Field Notes:	—
--------------	---

## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: Steel Tape

Technician		Measurement Type	
Tim Faltysell		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75.0	28.8	1.8	44.4
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: Steel Tape

Technician		Measurement Type	
Tim Faltysell		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
80	33.6	1.8	44.6
Measurement Note:			

Sign and Date:	Jim Faltysell 10-01-13
----------------	------------------------

WLM-2013/001-05

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-27-13	2:45 pm	DW-000562	
Location: Nickel Rd.			
Contact: Mark Meek			
Access Notes: —			

Field Notes:	—
--------------	---

## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: *Steel Tape*

Technician		Measurement Type	
<i>Tim Faltysek</i>		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70.0	20.25	1.9	47.85
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: *Steel Tape*

Technician		Measurement Type	
<i>Tim Faltysek</i>		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75.0	25.25	1.9	47.85
Measurement Note: —			

Sign and Date:	<i>Tim Faltysek</i> 10-1-13
----------------	-----------------------------

WLM-20131018-01

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
10-17-2013	1:44PM	GW-000395	
Location: 1190 Benbow Road			
Contact: Mark Meek			
Access Notes: —			

Field Notes: —

## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: *Steel Tape*

Technician		Measurement Type	
<i>Tim Faltysek</i>		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<i>50ft.</i>	<i>23.7ft</i>	<i>1.85ft</i>	<i>24.45</i>
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: *Steel Tape*

Technician		Measurement Type	
<i>Tim Faltysek</i>		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<i>45ft</i>	<i>18.7ft</i>	<i>1.85ft</i>	<i>24.45</i>
Measurement Note: —			

Sign and Date: *Tim Faltysek*      *10-18-2013*

WLM - 20140328-01

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date:	Measurement Time:	District Well ID:	State Well ID:
3-27-2014	8:45 AM	26-000158	
Location: 871 Allrecht Rd.			
Contact: Gene Rydell			
Access Notes: -			

Field Notes:	-
--------------	---

## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysek</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
86	9.4	2.1	74.5
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysek</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
92	15.2	2.1	74.7
Measurement Note: -			

Sign and Date:	<u>Tim Faltysek</u>	<u>3-28-2014</u>
----------------	---------------------	------------------

WLM-20140328-02

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date:	Measurement Time	District Well ID	State Well ID
3-27-2014	9:00 AM	NW-00016	
Location: 871 Albrecht Rd			
Contact: Gene Rydell			
Access Notes: -			

Field Notes:	-
--------------	---

## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tom Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
95	24.8	2.5	67.7
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tom Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
89	18.5	2.5	68
Measurement Note: -			

Sign and Date:	Tom Faltysek	3-28-2014
----------------	--------------	-----------



WLM - 20140328-03

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-27-2014	9:15 AM	DW-000159	
Location: 871 Allrecht Rd			
Contact: Gene Rydell			
Access Notes: -			

Field Notes:	-
--------------	---

## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPP

Technician		Measurement Type	
TIM FALTYSEK		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
97	18.8	1.25	76.95
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
Measurement Note:			

Sign and Date:	Jim Faltysek 3-28-2014
----------------	------------------------

WLM - 20140331-01

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-28-2014	9:05 AM	DW-000578	
Location: 13406 Nursery Drive 97°05.800 W 28°55.895 N			
Contact: Lee Sills			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysek</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>60</u>	<u>8.25</u>	<u>1.5</u>	<u>50.25</u>
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysek</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>56</u>	<u>4.4</u>	<u>1.5</u>	<u>50.1</u>
Measurement Note: —			

Sign and Date:	<u>Tim Faltysek</u> <u>3-31-2014</u>
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WLM- 20140331-02

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-28-2014	9:45 AM	DW-000577	
Location:		13378 Nursery Dr.	97°05.792W 28°55.426N
Contact:		Lee Sills	
Access Notes:		—	

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
65	5.64	2.15	57.21
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
68	8.7	2.15	57.15
Measurement Note: —			

Sign and Date:	Tim Faltysek 3-31-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-28-2014	10:51 AM	DW-000552	
Location: 651 Mission Valley Acres Rd			
Contact: David Williams			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70	4.9	1.8	63.3
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
68	2.9	1.8	63.3
Measurement Note: —			

Sign and Date:	Tim Faltysek 3-31-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-28-2014	12:08 pm	DW-000494	
Location: 8123 FM 236			
Contact: Paul Borden JR			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
105	7.6	1.0	95.6
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
108	10.65	1.0	95.55
Measurement Note: —			

Sign and Date:	Tim Faltysek	3-31-2014
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622m- 20140331-05

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date: <b>3-28-2014</b>	Measurement Time: <b>3:35pm</b>	District Well ID: <b>DW-000047</b>	State Well ID:
Location: <b>2885 LMV12</b>			
Contact: <b>Tim Andruss</b>			
Access Notes: <b>-</b>			

Field Notes:	<b>-</b>
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
<b>Tim Faltysek</b>		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<b>70.</b>	<b>10.7</b>	<b>1.3</b>	<b>58</b>
Measurement Note: <b>-</b>			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
<b>Tim Faltysek</b>		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<b>63</b>	<b>3.45</b>	<b>1.3</b>	<b>58.25</b>
Measurement Note: <b>-</b>			

Sign and Date:	<b>Tim Faltysek 3-31-2014</b>
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WLM- 20140402-01

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date:	Measurement Time:	District Well ID:	State Well ID:
3-31-2014	10:56 AM	NW-000424	
Location: 14711 Fm 236			
Contact: Ian McBean			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician:		Measurement Type:	
Tim Faltysel		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
135	3.45	2.45	129.1
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician:		Measurement Type:	
Tim Faltysel		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
140	8.43	2.45	129.12
Measurement Note: —			

Sign and Date:	Tim Faltysel	4-2-2014
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WLM- 20140402-02

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date:	Measurement Time	District Well ID	State Well ID
3-31-2014	11:39 AM	DW-000589	
Location:	97° 16.252 W      28° 51.868 N		
Contact:	Ellis G. Smith		
Access Notes:	—		

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysek</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>95</u>	<u>4.55</u>	<u>1.6</u>	<u>88.85</u>
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysek</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>98</u>	<u>7.55</u>	<u>1.6</u>	<u>88.85</u>
Measurement Note:			

Sign and Date:	<u>Tim Faltysek</u>	<u>4-2-2014</u>
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WLM - 20140402 - 03

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date:	Measurement Time:	District Well ID:	State Well ID:
3-31-2014	1:32pm	DW-000591	
Location:		28° 50.781N	
Contact:		Jim Rosenquest	
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysel		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
105	57.4	1.5	46.1
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysel		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	12.4	1.5	46.1
Measurement Note: —			

Sign and Date:	Jim Faltysel 4-2-2014
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WLM - 20140402 - 04

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-31-2014	2:30pm	DW-000562	
Location:		96° 49.997 W	29° 57.764 N
Contact:		MARK Meek	
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysck		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	8.2	1.9	44.9
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysck		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
57	10.2	1.9	44.9
Measurement Note: —			

Sign and Date:	Tim Faltysck 4-2-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-26-2014	2:55 pm	DW-000576	
Location	171 Post Oak Blvd - 96°50.237 28°53.403		
Contact	Wallace Brown		
Access Notes	—		

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: *STEEL TAPE*

Technician		Measurement Type	
<i>Tim Faltysel</i>		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
90	53.8	1.85	34.35
Measurement Note:	—		

Tape Cleaned |  Measurement Point Confirmed | Device Type: *STEEL TAPE*

Technician		Measurement Type	
		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	23.81	1.85	34.34
Measurement Note:	—		

Sign and Date:	<i>Tim Faltysel</i>	<i>4-2-2014</i>
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-26-2014	11:10 AM	NW-000425	
Location: 10715 HWY 185 S			
Contact: Janelle Baumbach			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
65	23.3	1.3	40.4
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70	28.3	1.3	40.4
Measurement Note: —			

Sign and Date:	Tim Faltysek 4-2-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date:	Measurement Time	District Well ID	State Well ID
3-26-2014		DW-000533	
Location: 645 Repka Rd			
Contact: Tim Faltysek			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	5	.8	39.2
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
48	8.1	.8	39.1
Measurement Note: —			

Sign and Date:	Tim Faltysek 4-2-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date:	Measurement Time:	District Well ID:	State Well ID:
3-26-2014		DW-000533	
Location: 645 Repka Rd			
Contact: Tim Faltysek			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	5	.8	39.2
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
48	8.1	.8	39.1
Measurement Note: —			

Sign and Date:	Tim Faltysek 4-2-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date:	Measurement Time:	District Well ID:	State Well ID:
3-26-2014	2:20 pm	GW-000150	
Location: 5664 Midway Road South			
Contact: Myra Feuerbacher			
Access Notes: -			

Field Notes:	-
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysell		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
65	32.5	2.9	29.6
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysell		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
62	29.5	2.9	29.6
Measurement Note: -			

Sign and Date:	Tim Faltysell
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date:	Measurement Time:	District Well ID	State Well ID
4-1-2014	11:25 AM	DW-000583	
Location:	28° 31.248 N 97.00.067 W		
Contact:	James Soderholtz		
Access Notes:	-		

Field Notes:	-
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: *STEEL Tape*

Technician		Measurement Type	
<i>Tim Faltysch</i>		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
30	20.8	2.50	6.62
Measurement Note:	-		

Tape Cleaned |  Measurement Point Confirmed | Device Type: *STEEL Tape*

Technician		Measurement Type	
<i>Tim Faltysch</i>		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
15	5.8	2.58	6.62
Measurement Note:	-		

Sign and Date:	<i>Tim Faltysch</i> 4-2-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	7:21 AM	DW-000510	79-16-600
Location: City Park			
Contact: —			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
33.	.25	34	29.75
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
33	.25	3	29.75
Measurement Note: —			

Sign and Date:	Jim Falgout 4-2-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date:	Measurement Time	District Well ID	State Well ID
3-24-2014	8:00 AM	DW-000607	79-08-805
Location: Aw 87 to New Wood / Cemetery			
Contact: -			
Access Notes: -			

Field Notes:	-
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	4.8	.95	54.25
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
65	9.8	.95	54.25
Measurement Note: -			

Sign and Date:	Jim Falgout 4-2-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	8:18 AM	DW-000589	
Location: 301 Kingwood Forest			
Contact: James Neumann			
Access Notes: -			

Field Notes:	-
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	9.3	2.1	48.6
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	4.3	2.1	48.6
Measurement Note: -			

Sign and Date:	Jim Falgout 4-2-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	8:35AM	DW-000617	79-07-305
Location: AW487N - Near DeWitt County line			
Contact: -			
Access Notes: -			

Field Notes:	-
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
85	5.7	1.5	77.8
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
90	10.7	1.5	77.8
Measurement Note: -			

Sign and Date:	Jim Falgout 4-2-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	9:56	AW-000.544	79-07-902
Location: Stec FM 447			
Contact: Jeff Laughann			
Access Notes: -			

Field Notes:	-
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
80	16.45	1.	62.55
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70	6.3	1	62.7
Measurement Note: -			

Sign and Date:	Jim Falgout 4-2-2014
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WLM - 20140402 - 15

# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	9:21 AM	DW-000599	79-07-703
Location: FM 2366 Ballrecht Rd.			
Contact: Mrs. Freddie Heindl			
Access Notes: —			

Field Notes:	—
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
115	3.8	1.7	109.5
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
115	3.8	1.7	109.5
Measurement Note: —			

Sign and Date:	Jim Falgout 4-2-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	9:59 Am	DW-000603	79-16-703
Location:			
Contact: <u>Daniel Guiney</u>			
Access Notes:			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Kerrieth Eller</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>70</u>	<u>13.15</u>	<u>2.32</u>	<u>54.53</u>
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
—		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
—	—	—	—
Measurement Note: —			

Sign and Date:	<u>Jim Faltys 4-2-2014</u>
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	10:20 AM	DW-000602	79-16-701
Location:			
Contact: Daniel Jimenez			
Access Notes: —			

Field Notes:	—
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician			Measurement Type
Kenneth Eller			<u>Primary</u>
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50.0	1.8	3.0	45.2
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: —

Technician			Measurement Type
—			<u>Confirmation</u>
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
—	—	—	—
Measurement Note: —			

Sign and Date:	Jim Falys 4-2-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	10:33 AM	DW-000601	79-16-702
Location: chuckan Dr & Chaparral Dr.			
Contact: Daniel Jimenez			
Access Notes: —			

Field Notes: —

## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Ellen		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	3.95	3.0	43.05
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: —

Technician		Measurement Type	
—		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
—	—	—	—
Measurement Note: —			

Sign and Date: Jim Faltysel 4-2-2014

NEW DOCUMENT BEHINDS

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	11:38 am	DW-000608	79-15-903
Location: Cdetoville Rd. & Coletoville Rd E			
Contact: Greg Gordon			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	2.85	1.74	45.39
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	7.85	1.74	45.39
Measurement Note: —			

Sign and Date:	Jim Falysel 4-2-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	11:38 Am	DW-000608	79-15-903
Location: Coletoville Rd. & Coletoville Rd E			
Contact: Greg Gordon			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	2.85	1.74	45.39
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	7.85	1.74	45.39
Measurement Note: —			

Sign and Date:	Jim Feleysch 4-2-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	11:51 AM	AW-000085	
Location: 1653 Coletoville Rd. W.			
Contact: Mrs Dennis Dietzel			
Access Notes:			

Field Notes:	-
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50.	11.75	2.2	36.05
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	6.75	2.2	36.05
Measurement Note: -			

Sign and Date:	Jim Falcoys 4-2-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	12:10 pm	DW-000609	79-23-303
Location: HWY 595 & NW CREEK Rd			
Contact: Greg Jordan			
Access Notes: —			

Field Notes:	—
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	6.2	2.8	36
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	11.2	2.8	36
Measurement Note: —			

Sign and Date:	Jim Fatyuel 4-2-2014
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WLM-20140402-22

# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	12:42 pm	DW-000611	79-24-102
Location: 193 Seven Rd.			
Contact: Greg Jordan			
Access Notes:			

Field Notes:	-
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	4.5	3.35	52
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
65	9.95	3.35	51.7
Measurement Note: -			

Sign and Date:	Jim Foley 4-2-2014
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WLM - 20140402 - 23

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	1:01 pm	DW-000612	79-24-702
Location: 2280 Kemper City Road West			
Contact: Doug Gordon			
Access Notes: -			

Field Notes:	-
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	1.7	3.31	49.99
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	6.7	3.31	49.99
Measurement Note: -			

Sign and Date:	Jim Falgout 4-7-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	1:35pm	DW-000492	
Location: 1526 McFadden Rd N			
Contact: Grete Knebel			
Access Notes: -			

Field Notes:	-
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	5.35	1.5	43.15
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	10.35	1.5	43.15
Measurement Note: -			

Sign and Date:	Jim Fabry 4-2-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	2:14 pm	DW-000375	80-17-101
Location: Bois-D-arc			
Contact: Jackie Schmidt			
Access Notes: -			

Field Notes:	-
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL Tape

Technician		Measurement Type	
Kenneth Eller		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
20	5.1	1.0	13.9
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL Tape

Technician		Measurement Type	
Kenneth Eller		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
22	7.1	1.0	13.9
Measurement Note: -			

Sign and Date:	Jim Foley 4-2-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	2:30pm	DW-000320	80-17-501
Location: Old Bloomington Rd & Fm 1686			
Contact: —			
Access Notes: —			

Field Notes:	—
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician			Measurement Type
Kenneth Eller			Primary
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	1.95	2	36.05
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: —

Technician			Measurement Type
—			Confirmation
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
—	—	—	—
Measurement Note:			

Sign and Date:	Jim Falgout 4-2-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
3-24-2014	2:42 pm	NW-000122	80-17-602
Location:		10794 HWY 1855	
Contact:		MR. Flores - Nelda Flores	
Access Notes:		—	

Field Notes:	—
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	9.1	2.3	43.6
Measurement Note:		—	

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	14.1	2.3	43.6
Measurement Note:		—	

Sign and Date:	Jim Falgout 4-2-2014
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WLM-20140403-01

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
4-3-2014	9:22 AM	DW-000101	
Location: 11641 Fm 616			
Contact: Sam Bishop			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysell		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	19.1	2.05	23.85
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysell		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
39	13.1	2.05	23.85
Measurement Note: —			

Sign and Date:	Tim Faltysell 4-3-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
4-3-2014	10:15	DW-000102	
Location: 11041 Fm 616			
Contact: Sam Bishop			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Fattysck		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	29.15	2.3	23.55
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Fattysck		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	14.15	2.3	23.55
Measurement Note: —			

Sign and Date:	Tim Fattysck 4-3-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	8:35 AM	DW-000311	80-17-905
Location: Indiana St & Second St			
Contact: Home check			
Access Notes: —			

Field Notes:	—
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
35	1	2.83	31.17
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
38	4	2.83	31.17
Measurement Note: —			

Sign and Date:	Jim Falysse 4-8-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	8:55 AM	DW-000616	80-18-401
Location: Fm 616 Bloomington High School			
Contact: Secretary -			
Access Notes: —			

Field Notes:	96° 51.283W      28° 40.327N
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	13.75	1.7	34.55
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
52	15.75	1.7	34.55
Measurement Note: —			

Sign and Date:	Jim Falgout      4-8-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	9:23 AM	NW-000310	
Location: 98 Serene Drive West			
Contact: Rodney Howell			
Access Notes: —			

Field Notes:	—
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
35	9.3	2.55	23.15
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
38	12.3	2.55	23.15
Measurement Note:			

Sign and Date:	Jim Falys	4-8-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	9:32 AM	GW-000489	80-18-402
Location: 259 Serene Drive			
Contact: Jesse Estrada			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL Tape

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	4.2	1.42	34.38
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL Tape

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
43	7.2	1.42	34.38
Measurement Note: —			

Sign and Date:	Jim Felty 4-8-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	10:21 AM	DW-000620	80-10-401
Location: <i>Hilten Rd &amp; Midway Rd. S</i>			
Contact: <i>Jim Lolle</i>			
Access Notes: <i>—</i>			

Field Notes:	<i>—</i>
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: *STEEL TAPE*

Technician		Measurement Type	
<i>Kenneth Ellen</i>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<i>40</i>	<i>-1.5</i>	<i>0</i>	<i>39.5</i>
Measurement Note: <i>—</i>			

Tape Cleaned |  Measurement Point Confirmed | Device Type: *—*

Technician		Measurement Type	
<i>—</i>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<i>—</i>	<i>—</i>	<i>—</i>	<i>—</i>
Measurement Note: <i>—</i>			

Sign and Date:	<i>Jim Lolle 4-8-2014</i>
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date:	Measurement Time:	District Well ID:	State Well ID:
3-25-2014	10:41 AM	DW-000239	SO-10-101
Location: HWY 59 N & Beck Rd.			
Contact: —			
Access Notes: —			

Field Notes:	—
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
65	6.95	2	56.05
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth ELLER		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75	16.95	2	56.05
Measurement Note: —			

Sign and Date:	Jim Faltysak 4-8-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	10:56 AM	DW-000377	80-02-804
Location: US HWY 59N Service Rd 6 FM 4445			
Contact: -			
Access Notes: -			

Field Notes:	-
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	11	1.8	32.2
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
48	14	1.8	32.2
Measurement Note: -			

Sign and Date:	Jim Falgout 4-8-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	11:18 AM	DW-000366	80-02-102
Location: J-2 Ranch Rd to Nickel Rd			
Contact: Mark Meck			
Access Notes: -			

Field Notes: -

## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70	11.3	0	58.7
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth ELLER		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
73	14.3	0	58.7
Measurement Note: -			

Sign and Date: Jim Falgout 4-8-2014

# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	11:31 AM	DW-000364	86-22-101
Location: Young Rd & Burroughs Rd			
Contact: Mark Meek			
Access Notes:			

Field Notes:	—
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	5.5	1	53.5
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
63	8.5	1	53.5
Measurement Note: —			

Sign and Date:	Jim Falgout 4-8-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	11:43 AM	DL-000614	80-01-301
Location: Wilson Rd & 444 N			
Contact: -			
Access Notes: -			

Field Notes:	-
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
99	4.1	9.5	85.4
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: -

Technician		Measurement Type	
-		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
-	-	-	-
Measurement Note: -			

Sign and Date:	Jim Falgout 4-8-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	12:06 PM	DW-000620	66-57-903
Location: J-2 Ranch Rd to Young Rd			
Contact: —			
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
110	39.5	1.55	68.95
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
90	19.5	1.55	68.95
Measurement Note: —			

Sign and Date:	Jim Alys 4-8-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	12:32 pm	DW-000021	66-57-801
Location:		13227 J-2 Rand Rd	
Contact:		Kenneth Eller	
Access Notes: -			

Field Notes:	-
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	3.4	.8	40.8
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
48	6.4	.8	40.8
Measurement Note: -			

Sign and Date:	Jim Falgout 4-8-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	12:47 pm	DW-000339	66-57406
Location: 25225 WSHWY 77N Fordton V.F.D.			
Contact: -			
Access Notes: -			

Field Notes:	-
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
105	7.2	1.45	96.35
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
KENNETH ELLER		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
110	12.2	1.45	96.35
Measurement Note:			

Sign and Date:	Jim Falgout 4-8-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
3-25-2014	1:12 AM	DW-000606	79-08-201
Location: 4398 Nursery Rd.			
Contact: Fredie DeLeon			
Access Notes: -			

Field Notes:	-
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
95	2.5	.7	91.8
Measurement Note: -			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
95	2.5	.7	91.8
Measurement Note: -			

Sign and Date:	Jim Falys 4/7/2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
4-22-2014	9:25 AM	GW-000130	
Location: 28 wellspring Blvd.			
Contact: TIM RAMPAY			
Access Notes: —			

Field Notes:	—
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
TIM FALTYSEK		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
100	10.45	1.1	88.45
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
TIM FALTYSEK		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
102	12:45	1.1	88.45
Measurement Note: —			

Sign and Date:	TIM FALTYSEK	4-22-2014
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WLM - 20140423 - 01

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
4-23-2014	9:30 AM	DW-000587	
Location:		97° 05.732 W 28° 55.399 N	
Contact:		Mike Hoover - Pct 2 Barn	
Access Notes: —			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysel</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
80	10.2	1.9	67.9
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysel</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75	5.2	1.9	67.9
Measurement Note: —			

Sign and Date:	<u>Tim Faltysel</u>
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WLM - 20140523 - 01

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
5-23-2014	2:30pm	AW-000590	
Location: Victoria County Airport 611 Foster Field dr.			
Contact: Jim Rosenquest			
Access Notes: 96 54.670 W 28° 51.613 N			

Field Notes:	—
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysek</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>70 ft</u>	<u>23.7</u>	<u>1.8 ft</u>	<u>44.5</u>
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysek</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>67 ft</u>	<u>20.7</u>	<u>1.8 ft</u>	<u>44.5</u>
Measurement Note:			

Sign and Date:	<u>Tim Faltysek</u> <u>5-23-2014</u>
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
5-23-2014	3:00	DW-000682	
Location:	Victoria County Airport	96.55, 51.5 W	
Contact:	Jim Rosenquest	28° 51.592	
Access Notes:			

Field Notes:	
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
64	12.3	2.1	49.6
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
53	1.3	2.1	49.6
Measurement Note:			

Sign and Date:	<u>Jim Falgout</u> 5-23-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
7-2-2014	9:10 AM	NW-000333	
Location: 2782 Mallett Drive			
Contact: Mr. Arthur Kenne			
Access Notes:			

Field Notes:

### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Falayzel</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>65</u>	<u>23.5</u>	<u>2.2</u>	<u>39.3</u>
Measurement Note: <u>—</u>			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Falayzel</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>58</u>	<u>16.5</u>	<u>2.2</u>	<u>39.3</u>
Measurement Note: <u>—</u>			

Sign and Date: Tim Falayzel      7-3-2014



# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
7-2-2012	10:35 Am	NW-000030	
Location: 1895 Kempa City Road			
Contact: Gary Dufour			
Access Notes: —			

Field Notes:	—
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70	17.9	2.0	50.1
Measurement Note: —			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
63	10.9	2.0	50.1
Measurement Note: —			

Sign and Date:		7-2-2014
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WLM- 20140814-01

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
8-14-2014	10:30 AM	DW-000 700	
Location: 14555 W.S. HWY. 8714			
Contact: Mr. Bill Kyle			
Access Notes:			

Field Notes:	97° 06.568 W - 28° 55.694 N
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: Steel Tape

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
90	16.85	2.82	70.33
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL Tape

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
95	21.85	2.82	70.33
Measurement Note:			

Sign and Date:	Tim Faltysek 8-14-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-2-2014	11:24 AM	DW-000101	
Location: 11041 FM 616			
Contact: Sam Bestop			
Access Notes:			

Field Notes:	96° 43.000 28.44.121
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician			Measurement Type
			<b>Primary</b>
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	19.3	2.05	28.65
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician			Measurement Type
			<b>Confirmation</b>
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45.	14.5	2.05	26.00
Measurement Note:			

Sign and Date:	Jim Falgoutsek	9-2-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-2-2014	10:51 AM	DW-000102	
Location: 1104 Fm 616			
Contact: Sam Beator			
Access Notes:			

Field Notes: Pump was running.

### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician			Measurement Type
			<b>Primary</b>
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70	27.5	23	40.20
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician			Measurement Type
			<b>Confirmation</b>
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
64	21.52	2.3	40.16
Measurement Note:			

Sign and Date: Jim Falgout 9-2-20-14

WLM- 20140909 - 01

# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	9:05 AM	HW-000510	79-16-608
Location: McCright Dr & FB Lowery Dr.			
Contact:			
Access Notes:			

Field Notes:	(29.75)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Kenneth Eller</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>34.30</u>	<u>8.5</u>	<u>2.10</u>	<u>27.79</u>
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
		<u>2.10</u>	
Measurement Note:			

Sign and Date:	<u>Jim Foley Sr</u>	<u>9-9-2014</u>
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	9:20 AM	DW-000607	79-00-805
Location: HWY 87 & Riverwood Dr. Comstock			
Contact:			
Access Notes:			

Field Notes:	(54.28)
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
80	10.1	.95	68.95
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75	4.8	.95	69.25
Measurement Note:			

Sign and Date:	<div style="display: flex; justify-content: space-between;"> <span><i>Jim Foley</i></span> <span>9-9-2014</span> </div>
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75                      4.8                      .95                      69.25

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	9:41 AM	DW-000589	
Location: 301 King Wood Forest Dr.			
Contact: James Neumann			
Access Notes:			

Field Notes:	576-3368	(48.60)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	.6	1.1	58.60
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	.6	1.1	58.60
Measurement Note:			

Sign and Date:	Jim Falgout 9-9-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	10:10 AM	DW-000577	
Location: 13370 Nursery Dr.			
Contact: Lee Seals			
Access Notes:			

Field Notes:	(57.15)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Ellen		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
65	5.3 <del>5.3</del>	2.5	<del>59.57.15</del>
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Ellen		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
65	<del>5.3</del> 5.3	2.15	57.15
Measurement Note:			

Sign and Date:	Jim Faltysch 9-9-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	10:15AM	DW-000570	
Location: 13406 Nursery Drive			
Contact: Lee Sills			
Access Notes:			

Field Notes:	(50.10)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	8.1	1.5	50.40
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	8.1	1.5	50.40
Measurement Note:			

Sign and Date:	Jim Falgout 9-9-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	10:25 AM	DW-000587	
Location: 13323 Nursery Drive			
Contact: Kevin Janak - County Pct 2. Barr			
Access Notes:			

Field Notes:	(67.90)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: Steel Tape

Technician		Measurement Type	
Kenneth Ellen		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75	2.4	1.9	70.7
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Ellen		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75	2.4	1.9	70.7
Measurement Note:			

Sign and Date:	Jim Foley 9-9-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-14	10:45 AM	DW-000617	79-07-305
Location: U.S. HWY. 87 Near Owlitt CO. Line			
Contact:			
Access Notes:			

Field Notes:	(77.80)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eltek		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
85	5.6	1.5	77.9
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eltek		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
85	5.6	1.5	77.9
Measurement Note:			

Sign and Date:	Jim Faltys 9-9-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	11:07	DW-000606	79-08-201
Location: 4398 Nursery Rd.			
Contact: Fredic Deleon			
Access Notes:			

Field Notes:	(1.0)
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
10.5	.55	.7	103.75
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
Measurement Note:			

Sign and Date:	Jim Falgout 9-9-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	11:40 am	BW-000544	79-07-902
Location: FM 447 c Guadalupe River			
Contact: Jeff Laughann			
Access Notes:			

Field Notes:	(6270)
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Keller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
74	2.75	1.0	70.25
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
		1.0	
Measurement Note:			

Sign and Date:	Jim Falter 9-9-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	12:00 PM	DW-000599	79-07-703
Location: <i>Fm 236 and Culbrecht Rd.</i>			
Contact: <i>Mrs. Fuddie Heineold -</i>			
Access Notes:			

Field Notes:	<i>(109.50)</i>
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: *STEEL TAPE*

Technician		Measurement Type	
<i>Kenneth Ellen</i>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<i>120</i>	<i>8.2</i>	<i>1.7</i>	<i>110.1</i>
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
		<i>1.7</i>	
Measurement Note:			

Sign and Date:	<i>Jim Fuleps 9-9-2014</i>
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	12:38	DW-000603	79-16-703
Location: <i>Chuckar Dr &amp; Junley Ln.</i>			
Contact: <i>Daniel Jimenez</i>			
Access Notes:			

Field Notes:	(54.53)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: *STEEL TAPE*

Technician		Measurement Type	
<i>Kenneth Eller</i>		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<i>65</i>	<i>6.25</i>	<i>2.5</i>	<i>56.25</i>
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
		--	
Measurement Note:			

Sign and Date:	<i>Jim Falaga 9-9-2014</i>
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	12:42	DW-000602	79-16-701
Location: Chuchan Dr & Srouse Drive			
Contact: Daniel Jimenez			
Access Notes:			

Field Notes:	(45.20)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Ellet		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	5.4	1.10	53.5
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
Measurement Note:			

Sign and Date:	Jim Falgout 9-9-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	12:45	DW-000601	79-16-702
Location: <i>Chucka Dr. c Chaparral Dr</i>			
Contact: <i>Daniel Tenney</i>			
Access Notes:			

Field Notes:	
	<i>(4305)</i>

### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
<i>Kenneth Eller</i>		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<i>65</i>	<i>13.1</i>	<i>1.10</i>	<i>50.8</i>
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
Measurement Note:			

Sign and Date:	<i>Jim Felty 9-9-2014</i>
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-5-2014	1:15 P.M.	DW-000608	79-15-903
Location: Coletoville Rd & Coletoville Rd E.			
Contact: Greg Gordon			
Access Notes:			

Field Notes:	(4539)
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	2.35	2.0	45.65
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	2.35	2.0	45.65
Measurement Note:			

Sign and Date:	Jim Falgout 9-5-2014
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# VGGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	1:26 pm	DW-000085	
Location: 1053 Coletoville Rd W			
Contact: Dennis Dietzel			
Access Notes:			

Field Notes:	Pump Runway (36.05)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	1.15	2.2	41.65
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	7.15	2.2	45.65
Measurement Note:			

Sign and Date:	Jim Felton 9-9-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	1:44pm	AW-000609	79-23-303
Location: HWY 59S & NW Creek Rd.			
Contact: Greg Gordon			
Access Notes:			

Field Notes:	(9600)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	<del>3.45</del> 3.45	2.8	38.75
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	3.5	2.8	38.7
Measurement Note:			

Sign and Date:	Jim Falgout 9-9-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-5-2014	2:08 PM	DW 000610	79-23-601
Location: Cologne Rd & Strobel Rd			
Contact: Ronnie Stock			
Access Notes:			

Field Notes:	(46.70)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	10.95	1.7	47.35
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
Measurement Note:			

Sign and Date:	Jim Falgout 9-5-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	2:16 PM	DW-000611	79-24-102
Location: <i>Devens Rd &amp; FM446</i>			
Contact: <i>Breg Gordon</i>			
Access Notes:			

Field Notes:	(51.76)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
<i>Kenneth Eller</i>		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	4.25	3.35	52.4
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
<i>Kenneth Eller</i>		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	4.25	3.35	52.4
Measurement Note:			

Sign and Date:	<i>Jim Falgout 9-9-2014</i>
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	2:20pm	DW-000612	79-24-702
Location: Kemper City Rd & Fleming Prairie Rd.			
Contact: Greg Larson			
Access Notes:			

Field Notes:	(49.99)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAP

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	6.1	3.31	50.59
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAP

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	6.1	3.31	50.59
Measurement Note:			

Sign and Date:	Jim Falgout 9-9-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	2:41	NW-000030	
Location: 1895 Kemper City Rd S			
Contact: Gary Dufour			
Access Notes:			

Field Notes:	(50.10)
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	2.55	2.0	50.45
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	2.55	2.0	50.45
Measurement Note:			

Sign and Date:	Jim Falgout 9-9-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	2:58 pm	DW-000613	79-32-602
Location: MCFadden Rd.			
Contact:			
Access Notes: Discharge Pipe Holds Water!			

Field Notes:	Could not get a good reading (36")
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
Measurement Note:			

Sign and Date:	Jim Talbot 9-9-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	3:15PM	DW-000492	
Location: 1562 McFadden Rd. N.			
Contact: Mista Knechel			
Access Notes:			

Field Notes:	(43.15)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	9.55	1.5	43.95
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	9.55	1.5	43.95
Measurement Note:			

Sign and Date:	Jim Falgout 9-9-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	3:51 PM	DW-000375	80-17-101
Location: Bois-D-Can			
Contact: Matt Champion / Jackie Schmidt - Chris			
Access Notes:			

Field Notes:	(1390)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<del>15.21</del>	4.5	1.0	15.5
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
Measurement Note:			

Sign and Date:	 9-9-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	4:10 PM	DW-000320	80-17-501
Location: Old Bloomington Rd & FM 1686			
Contact:			
Access Notes:			

Field Notes:	(3665)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	4.65	2	38.35
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
		2	
Measurement Note:			

Sign and Date:	Jim Talley 9-9-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	4:18 pm	NW-000122	80-17-602
Location: Hwy 185 S & Diebel Dr.			
Contact: Abel Flores			
Access Notes:			

Field Notes:	(43.66)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	3.3	2.3	44.4
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	3.3	2.3	44.4
Measurement Note:			

Sign and Date:	Jim Fabozel 9-9-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	4:38 pm	DW-000311	80-17-905
Location: Indiana St & Second St			
Contact:			
Access Notes:			

Field Notes:	(31.77)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	4.7	283	32.47
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	4.7	283	32.47
Measurement Note:			

Sign and Date:	Jim F. Lopez 9-9-2014
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WLM-20140909-27

# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	4:56 PM	DW-000616	80-18-401
Location: FM 616 @ Loui Rd. Bloomington High School			
Contact:			
Access Notes:			

Field Notes:	(94.55)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	2.2	1.7	36.1
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	2.2	1.7	36.1
Measurement Note:			

Sign and Date:	Jim Salzman 9-9-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	5:08 pm	NW-000310	
Location: 98 Serene Dr West			
Contact: Rodney Howell			
Access Notes:			

Field Notes:	(23.15)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
30	3.7	2.55	23.75
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
		2.55	
Measurement Note:			

Sign and Date:	Jim Falgout 9-9-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-5-2014	5:17 pm	26-000489	86-18-402
Location: 259 E. Serene			
Contact: Jesse Catada			
Access Notes:			

Field Notes:	(34.38)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	2.8	1.42	35.78
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	2.8	1.42	35.78
Measurement Note:			

Sign and Date:	Jim Falgout 9-5-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	5:50 AM	DW-000028	80-10-401
Location: Hillen Rd & Midway Rd.			
Contact: Jim Kollie			
Access Notes:			

Field Notes:	(39.50)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEELTAPE

Technician		Measurement Type	
<u>Kenneth Eller</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>45</u>	<u>.2</u>	<u>6</u>	<u>38.8</u>
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEELTAPE

Technician		Measurement Type	
<u>Kenneth Eller</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>45</u>	<u>.2</u>	<u>6</u>	<u>38.8</u>
Measurement Note:			

Sign and Date:	<u>Jim Falgout 9-9-2014</u>
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	6:10 PM	HW-000239	80-10-101
Location: HWY 59 N & Beck Rd.			
Contact: Thurman S. Clements Jr.			
Access Notes:			

Field Notes:	(5605)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75	5.25	2	67.75
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75	5.25	2	67.75
Measurement Note:			

Sign and Date:	Jim Falgout 9-5-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-9-2014	6:22 PM	DW-000377	80-62-804
Location: HWY 59 N Service Rd 6 FM 444 S			
Contact:			
Access Notes:			

Field Notes:	(32.10)
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Elliot		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	4.4	1.8	33.8
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Elliot		Confirmation /	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	4.4	1.8	33.8
Measurement Note:			

Sign and Date:	Jim Felty 9-9-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-10-2014	1:25 PM	DW-000687	
Location: 13515 US HWY 87 N			
Contact: Sandy - STELL NEW			
Access Notes:			

Field Notes:	152 ft. depth
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: *Steel Tap*

Technician		Measurement Type	
<i>Kenneth Eller</i>		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<i>50</i>	<i>6.65</i>	<i>3</i>	<i>40.35</i>
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: *Steel Tape*

Technician		Measurement Type	
<i>Kenneth Eller</i>		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<i>50</i>	<i>6.65</i>	<i>3</i>	<i>40.35</i>
Measurement Note:			

Sign and Date:	<i>Jim Fabry 9-20-2014</i>
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-10-2014	4:07 PM	DW-000339	66-57-406
Location: HWY 77 & Fordron Rd. FVFD			
Contact:			
Access Notes:			

Field Notes:	(96.35)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician			Measurement Type
Kenneth Eller			Primary
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
110	6.5	1.45	102.05
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician			Measurement Type
Kenneth Eller			Confirmation
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
110	6.5	1.45	102.05
Measurement Note:			

Sign and Date:	Jim Falgout 9-10-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-10-2014	2:17pm	DW-000021	66-57-801
Location: J-2 Ranch Rd @ Measlopper Rd.			
Contact: Kenneth ELLER			
Access Notes:			

Field Notes:	(40.50)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth ELLER		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	1	.8	44.1
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type:

Technician		Measurement Type	
Kenneth ELLER		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
48	2.2	.8	45
Measurement Note:			

Sign and Date:	Jim Falgout 9-10-2014
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48                      2.2                      .8                      45

# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-10-2014	3:05	DW-000614	80-01-301
Location: Wilson Rd & FM 444			
Contact:			
Access Notes:			

Field Notes:	(85.40)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
135	21.7	9.5	103.8
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
		9.5	
Measurement Note:			

Sign and Date:	Jim Faltysch 9-10-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-20-2014	2:40pm	DW-000620	66-57-903
Location: J-2 Ranch Rd & Young Rd			
Contact:			
Access Notes:			

Field Notes:	(68.95)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Ellen		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
105 <del>278</del>	2.35	1.55	101.1
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Kenneth Ellen		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
105	2.35	1.55	101.1
Measurement Note:			

Sign and Date:	Jim Falgout 9-10-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-10-2014	8:17	DW-000364	80-02-101
Location: Young Rd & Burroughs Rd.			
Contact: Mark Meek			
Access Notes:			

Field Notes:	(53.50)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
<b>KENNETH ELLER</b>		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
7.5	6.5	1	67.5
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
<b>Kenneth Eller</b>		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
7.5	6.5	1	<del>67.5</del>
Measurement Note:			

Sign and Date:	<b>Jim Felty 9-10-2014</b>
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-10-2014	3:34 PM	DW-000364	80-02-102
Location: J-2 Ranch Rd & Nickel Rd.			
Contact: Mark Meek			
Access Notes:			

Field Notes:	(58.70)
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75	4.9	0	70.1
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Kenneth Eller		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75	4.9	0	70.1
Measurement Note:			

Sign and Date:	Jim Falgout 9-10-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-11-2014	9:35	DW-000159	
Location: 871 Albrecht Rd			
Contact: Gene Rydell			
Access Notes:			

Field Notes:	(6.95)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
95	12	<del>25</del> 1.25	81.75
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
90	7	<del>25</del> 1.25	81.75
Measurement Note:			

Sign and Date:	Tim Faltysek 9-11-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-11-2014	9:05 AM	NW-00006	
Location: 871 Albrecht Rd.			
Contact: Gene Rydell			
Access Notes:			

Field Notes:	(67.10)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltyssek</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
85	13.7	1.25	70.05
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltyssek</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
85	13.7	1.25	70.05
Measurement Note:			

Sign and Date:	<u>Tim Faltyssek</u> <u>9-11-2014</u>
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-11-2014	9:06 AM	DW-000158	
Location: 871 Albrecht Rd			
Contact: Gene Rydell			
Access Notes:			

Field Notes:	(24.10)
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysak</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
95	17.47	2.1	75.43
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysak</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
92	14.5	2.1	75.5
Measurement Note:			

Sign and Date:	<u>Tim Faltysak</u> <u>9-11-2014</u>
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-11-2014	10:26 AM	NW-000426	
Location: 14711 FM236			
Contact: FAW Mc Bean			
Access Notes:			

Field Notes: (29.12)

### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysiek</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
140	7.15	2.45	130.4
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltysiek</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
140	7.15	2.45	130.4
Measurement Note:			

Sign and Date: Tim Faltysiek 9-11-2014

# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-11-2014	10:49 am	DW-000580	
Location:		677 Cooley Rd.	
Contact:		E.G. Smith	
Access Notes:			

Field Notes:	
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
<i>Tim Faltysel</i>		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
92	45	1.6	89.95
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
<i>Tim Faltysel</i>		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
100	29	1.6	90.5
Measurement Note:			

Sign and Date:	
	<i>Tim Faltysel</i> 9-11-2014



# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-11-2014	11:20 AM	AW-000552	
Location: 651 Mission Valley Acres Rd.			
Contact: David Williams			
Access Notes:			

Field Notes:	(63.30)
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Jim Faltysek</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
75	9.35	1.8	63.85
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Jim Faltysek</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70	4.35	1.8	63.85
Measurement Note:			

Sign and Date:	<u>Jim Faltysek</u> 9-11-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-11-2014	11:55 AM	2W-000494	
Location: 8123 FM 236			
Contact: Paul Bonorden SR			
Access Notes:			

Field Notes:

## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysell		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
110	10.85	1.8	97.35
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysell		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
100	8.85	1.8	97.35
Measurement Note:			

Sign and Date: Tim Faltysell 9-11-2014

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-11-2014	12:40 pm	DW-000591	
Location: Victorin County Airport			
Contact: Jim Rosenquest			
Access Notes:			

Field Notes:	(46.10)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Tim Faltysch		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70	22	1.5	46.50
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Tim Faltysch		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
73	25	1.5	46.50
Measurement Note:			

Sign and Date:	Tim Faltysch 9-11-2014
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# VCGCD Water-Level Measurement Field Form

**Measurement Event Data**

Measurement Date	Measurement Time	District Well ID	State Well ID
9-11-2014	1:01 pm	DW-000596	
Location: Victoria County Airport			
Contact: Jim Rosenguest			
Access Notes:			

Field Notes:	(44.50)
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**Measurement Data**

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	8.5	1.8	44.70
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
49	2.5	1.8	44.70
Measurement Note:			

Sign and Date:	Jim Faltysek 9-11-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-11-2014	1:36pm	BW-000576	
Location: 171 Post Oak Bend			
Contact: Wallace Brown			
Access Notes:			

Field Notes:	(37.37)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysch		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
54	16.7	1.85	41.45
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysch		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
48	4.6	1.85	41.55
Measurement Note:			

Sign and Date:	Tim Faltysch 9-11-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-11-2014	1:50pm	NW-000550	
Location: 171 Post OAK Bend			
Contact: Wallace Brown			
Access Notes:			

Field Notes:
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAP**

Technician		Measurement Type	
Tim Faltysel		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	21.1	1.72	27.81
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Tim Faltysel		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	16.1	1.72	27.81
Measurement Note:			

Sign and Date:	Tim Faltysel 9-11-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-12-2014	9:45	DW-000583	
Location: 1400 Cushman Rd.			
Contact: James Soderholtz			
Access Notes:			

Field Notes:	(6.62)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysell		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
20	10.32	2.58	7.1
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysell		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
14	4.32	2.58	7.1
Measurement Note:			

Sign and Date:	Tim Faltysell 9-12-2014
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WLM - 20140912-02

# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-12-2014	10:26am	NW-000425	
Location: 10715 HWY 185S			
Contact: Janelle Baumbach			
Access Notes:			

Field Notes:	(4.46)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: Steel Tape

Technician			Measurement Type
<u>Tim Faltyssek</u>			<u>Primary</u>
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	9.6	1.3	44.1
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician			Measurement Type
			<u>Confirmation</u>
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
55	9.6	1.3	44.1
Measurement Note:			

Sign and Date:	<u>Jim Faltyssek</u> 9-12-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-12-2014	11:00 AM	DW-000595	
Location: Black Bayou Road #1			
Contact: Martin Robles			
Access Notes:			

Field Notes:	
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltyssek		<b>Primary</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
65	11.1	2.5	51.4
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
		<b>Confirmation</b>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
60	6.1	2.5	51.4
Measurement Note:			

Sign and Date:	Tim Faltyssek 9-12-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-12-2014	12:40	DW-000562	
Location:		Nickel Rd.	
Contact:		Mark Meek	
Access Notes:			

Field Notes:	(44.90)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: *STEEL TAPE*

Technician		Measurement Type	
<i>Tim Faltysek</i>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70	20	1.9	48.1
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: *STEEL TAPE*

Technician		Measurement Type	
<i>Tim Faltysek</i>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
63	13	1.9	48.1
Measurement Note:			

Sign and Date:	<i>Tim Faltysek 9-12-2014</i>
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-25-14	8:20 AM	DW-000130	
Location: 28 Wellspur Blvd.			
Contact: Tim Rampsey			
Access Notes:			

Field Notes:	(88.45)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
108	6.45	1.1	100.45
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
105	3.43	1.1	100.47
Measurement Note:			

Sign and Date:	Tim Faltysek 9-25-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-25-14	10.05 AM	DW-000150	
Location: 5666 Midway Rd S.			
Contact: Myra Feuerbacher			
Access Notes:			

Field Notes:	(29.60)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysiek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
40	4.5	2.9	32.6
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysiek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
37	1.5	2.9	32.6
Measurement Note:			

Sign and Date:	Tim Faltysiek 9-25-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-25-14	11:02 AM	AW-000533	
Location: 645 Repika Rd			
Contact: Tim Faltysek			
Access Notes:			

Field Notes:	(39.10)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	9.59	.8	39.61
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: **STEEL TAPE**

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
42	1.57	.8	39.63
Measurement Note:			

Sign and Date:	Tim Faltysek 9-25-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-25-14	1:28 PM	DW-000395	
Location: 1190 Benbow Road			
Contact: MARK MEEL			
Access Notes:			

Field Notes:	(29.18)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>TIM FAHYSK</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	16.3	1.85	26.85
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>TIM FAHYSK</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
35	6.3	1.85	26.85
Measurement Note:			

Sign and Date:	<u>Tim Fahysk 9-25-2014</u>
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-25-14	3:30pm	NW-000480	
Location: 11 Post OAC Glenn			
Contact: Andrian S. Canady			
Access Notes:			

Field Notes:	
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
41	1.85	1.9	37.25
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	5.85	1.9	37.25
Measurement Note:			

Sign and Date:	Tim Faltysek 9-25-2014
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WLM- 20140929-01

# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-29-30	3:00pm	GW-000682	
Location: Victoria, County Airport			
Contact: Jim Rosenquest			
Access Notes:			

Field Notes:	(49.60)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltyssek</u>		<u>Primary</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>58</u>	<u>6.15</u>	<u>2.1</u>	<u>49.75</u>
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
<u>Tim Faltyssek</u>		<u>Confirmation</u>	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
<u>55</u>	<u>3.16</u>	<u>2.1</u>	<u>49.74</u>
Measurement Note:			

Sign and Date:	<u>Jim Faltyssek 9-29-2014</u>
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WLM- 20140930-01

# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-30-2014	11:30AM	NW-000333	
Location: 2282 Mallett Dr.			
Contact: Arthur Kenne			
Access Notes:			

Field Notes:	(39.30)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
50	8.15	2.2	39.65
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysek		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
45	3.17	2.2	39.63
Measurement Note:			

Sign and Date:	Tim Faltysek 9-30-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-30-2014	1:41 PM	SW-000190	
Location: 7401 FM 236			
Contact: Celyn Seiler / Ruby Schmidt Bateman			
Access Notes:			

Field Notes:	(40.35)
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysch		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
80	20.8	1.2	58
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Faltysch		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
65	5.6	1.2	58.2
Measurement Note:			

Sign and Date:	Tim Faltysch 9-30-2014
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# VCGCD Water-Level Measurement Field Form

## Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-30-2014	2:05pm	DW-000271	
Location: 5015 FM 1685			
Contact: Kevin Janak			
Access Notes:			

Field Notes:	
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## Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim FATHYSEK		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
85	15.3	1.1	68.6
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim FATHYSEK		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
80	1032	1.1	68.58
Measurement Note:			

Sign and Date:	Tim Fathyssek 9-30-2014
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# VCGCD Water-Level Measurement Field Form

### Measurement Event Data

Measurement Date	Measurement Time	District Well ID	State Well ID
9-30-2014	3:54 PM	AW-000047	
Location: 2885 LMUR			
Contact: Tim Andruss			
Access Notes:			

Field Notes:	(58.25)
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### Measurement Data

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Jim Falgout		Primary	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
68	1	1.3	65.7
Measurement Note:			

Tape Cleaned |  Measurement Point Confirmed | Device Type: STEEL TAPE

Technician		Measurement Type	
Tim Falgout		Confirmation	
Measurement Hold (ft)	Water Mark (ft)	Measurement Point (ft)	Water Level - Depth Below Surface (ft)
70	2.4	1.3	66.3
Measurement Note:			

Sign and Date:	Jim Falgout . 9-30-2014
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Fiscal Year – 2013 - 2014 Annual Report  
Attachment 7

WRM-20131001-01

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: **NW-000179** Date: **9-26-13**

Location: **19543 FM 1686** Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: **Rafael Resendiz** Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: **Tim Faltysek** Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox  Disposal of Discharged Water: **NA**

Purging: **Ranged from Purset - 10 min.** Sampling: **N/A**

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS	Field Calibration: <b>PH7-1500/PH4-1460/PH100-1525</b>
Conductivity: YSI 556 MPS	Field Calibration: <b>6883 8,974 <math>\mu</math>mhos</b>
ORP Meter: YSI 556 MPS	Field Calibration: <b>7800 <math>\pm</math> 229 mV</b>
DO Meter: YSI 556 MPS	Field Calibration (Optional): _____
Thermometer: YSI 556 MPS	Check: A check solution will be used to validate calibration.
TDS: YSI 556 MPS	
Other: _____	

	Check Solution	Field Reading
Temperature	<b>21 - 25</b>	<b>22.63</b>
pH	<b>6.8 - 7.2</b>	<b>7.03</b>
Conductivity	<b>7630-8010</b>	<b>7956</b>
ORP	<b>212-242</b>	<b>222.5</b>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<b>1:23 pm</b>		<b>59/36 sec</b>								<b>See Attached Data Sheet</b>
		<b>8.339/m</b>								

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: **Tim Faltysek 10-1-13**



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

Filename	20130926 - NW-000179.dat
Model	556
ID	
Revision	1.13
Site name	NW000179

Date.Y/M/D	Time HH:MM:SS	Temp C	Cond mS	SpCond uS	TDS g/L	Sal ppt	DOsat %	DO mg/L	pH	pH mV	Orp mV	Resist MOhm*cm	DOchrg1
2013/09/26	13:34:36	24.50	2.136	2156	1.401	1.10	107.2	8.89	6.14	34.0	114.2	0.000	0.0
2013/09/26	13:35:36	23.30	2.124	2195	1.427	1.12	60.1	5.10	6.82	-4.0	80.9	0.000	0.0
2013/09/26	13:36:36	23.23	2.119	2193	1.425	1.12	58.3	4.95	6.81	-3.5	79.8	0.000	0.0
2013/09/26	13:37:36	23.21	2.118	2193	1.426	1.12	57.9	4.91	6.81	-3.6	79.1	0.000	0.0
2013/09/26	13:38:36	23.21	2.117	2192	1.425	1.12	57.5	4.88	6.80	-3.3	79.1	0.000	0.0
2013/09/26	13:39:36	23.13	2.114	2192	1.425	1.12	57.6	4.90	6.79	-2.4	79.2	0.000	0.0
2013/09/26	13:40:36	23.20	2.116	2191	1.424	1.12	57.4	4.87	6.77	-1.5	79.7	0.000	0.0
2013/09/26	13:41:36	23.09	2.111	2191	1.424	1.12	57.4	4.88	6.76	-0.7	80.3	0.000	0.0
2013/09/26	13:42:36	23.16	2.114	2191	1.424	1.12	57.2	4.86	6.74	0.3	81.2	0.000	0.0
2013/09/26	13:43:36	23.07	2.110	2191	1.424	1.12	57.2	4.87	6.72	1.2	82.1	0.000	0.0
2013/09/26	13:44:36	23.13	2.114	2192	1.425	1.12	57.1	4.85	6.72	1.4	83.2	0.000	0.0
2013/09/26	13:45:36	22.95	2.105	2191	1.424	1.12	57.3	4.89	6.72	1.2	84.3	0.000	0.0
2013/09/26	13:46:36	23.01	2.108	2191	1.424	1.12	57.0	4.86	6.73	0.5	85.4	0.000	0.0
2013/09/26	13:47:36	22.99	2.106	2190	1.424	1.12	57.2	4.88	6.75	-0.3	86.5	0.000	0.0
2013/09/26	13:48:36	23.01	2.108	2191	1.424	1.12	57.0	4.86	6.77	-1.3	87.3	0.000	0.0
2013/09/26	13:49:36	22.94	2.103	2189	1.423	1.12	57.1	4.87	6.79	-2.4	88.2	0.000	0.0

WQW-2013/09/26-01

*Jim F. Altyal*  
10-1-13

WQM - 2013 1001-02

**GROUNDWATER MONITORING RECORD**

State Well ID: \_\_\_\_\_ District Well ID: \_\_\_\_\_ Date: 9-26-13

Location: 10796 HWY 185S Starting Water Level (ft. below BMP): \_\_\_\_\_  
 Owner: Nelda Flores Casing Stickup (ft.): \_\_\_\_\_  
 Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_  
 Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox  Disposal of Discharged Water: N/A

Purging: Purged from well head 10 min. Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH10.0-1525  
 Conductivity: YSI 556 MPS Field Calibration: 6883 8,974  $\mu$ mhos  
 ORP Meter: YSI 556 MPS Field Calibration: 7800 + 229 mV  
 DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_  
 Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

	Check Solution	Field Reading
Temperature	<u>21-25</u>	<u>22.63</u>
pH	<u>6.8-7.2</u>	<u>7.03</u>
Conductivity	<u>7630-8010</u>	<u>7956</u>
ORP	<u>212-242</u>	<u>222.5</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>2:03 PM</u>		<u>59/31sec</u>								
		<u>9.679/m</u>								

**SAMPLE INVENTORY**

Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			

Comments:  
Jim Kellogg 10-1-13



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**




Filename	20130926 - NW-000122.dat
Model	556
ID	
Revision	1.13
Site name	NW000122

Date.Y/M/D	Time HH:MM:SS	Temp C	Cond mS	SpCond uS	TDS g/L	Sal ppt	DOsat %	DO mg/L	pH	pH mV	Orp mV	Resist MOhm*cm	DOchrg
2013/09/26	14:15:50	23.51	1.945	2002	1.301	1.02	104.3	8.81	6.66	4.6	146.4	0.001	0.0
2013/09/26	14:16:50	23.20	1.923	1992	1.295	1.01	37.5	3.18	6.76	-1.2	143.5	0.001	0.0
2013/09/26	14:17:50	23.17	1.920	1989	1.293	1.01	35.6	3.03	6.79	-2.7	143.8	0.001	0.0
2013/09/26	14:18:50	23.17	1.921	1991	1.294	1.01	35.0	2.97	6.81	-3.5	144.0	0.001	0.0
2013/09/26	14:19:50	23.18	1.920	1989	1.293	1.01	34.7	2.95	6.82	-4.3	143.9	0.001	0.0
2013/09/26	14:20:50	23.19	1.917	1985	1.291	1.01	34.5	2.93	6.83	-4.8	143.4	0.001	0.0
2013/09/26	14:21:50	23.19	1.917	1986	1.291	1.01	34.7	2.95	6.84	-5.5	142.7	0.001	0.0
2013/09/26	14:22:50	23.20	1.921	1990	1.293	1.01	34.3	2.91	6.84	-5.5	142.4	0.001	0.0
2013/09/26	14:23:50	23.20	1.922	1991	1.294	1.01	34.2	2.90	6.84	-5.6	142.0	0.001	0.0
2013/09/26	14:24:50	23.22	1.924	1992	1.294	1.01	34.1	2.90	6.84	-5.7	141.4	0.001	0.0
2013/09/26	14:25:50	23.23	1.925	1992	1.295	1.01	34.0	2.89	6.85	-5.9	140.4	0.001	0.0
2013/09/26	14:26:50	23.22	1.924	1992	1.295	1.01	34.2	2.90	6.85	-6.0	139.6	0.001	0.0
2013/09/26	14:27:50	23.23	1.922	1990	1.293	1.01	34.1	2.90	6.85	-6.2	138.9	0.001	0.0
2013/09/26	14:28:50	23.22	1.921	1989	1.293	1.01	34.3	2.91	6.86	-6.3	138.1	0.001	0.0

WQM-20131001-02

*Jim Falgout*  
10-1-13

GROUNDWATER MONITORING RECORD							PAGE 1 of 1			
State Well ID:			District Well ID:			Date: 9-26-13				
Location: 10715 St HWY 1855			Starting Water Level (ft. below BMP):							
Owner: Janell Baumback			Casing Stickup (ft.):							
Measuring Point (MP) of Well: 1.2			Starting Water Level (ft. BGL): 43.15							
Casing Diameter (in ID):			Total Depth (ft. BGL):							
Sampled by:			Casing Volume (gal.):							
QUALITY ASSURANCE										
<b>METHODS (describe):</b>										
Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox					Disposal of Discharged Water:					
Purging:					Sampling:					
<b>INSTRUMENTS (Indicate make, model, I.D.)</b>										
pH: YSI 556 MPS			Field Calibration: PH7-1500/PH4-1460/PH10.0-1525							
Conductivity: YSI 556 MPS			Field Calibration: 6883 8,974 $\mu$ mhos							
ORP Meter: YSI 556 MPS			Field Calibration: 7800 $\pm$ 229 mV							
DO Meter: YSI 556 MPS			Field Calibration (Optional):							
Thermometer: YSI 556 MPS			Check: A check solution will be used to validate calibration.							
TDS: YSI 556 MPS							Check Solution		Field Reading	
Other:			Temperature		21 - 25		22.63			
			pH		6.8 - 7.2		7.03			
			Conductivity		7630-8010		7956			
			ORP		217-242		222.5			
SAMPLING MEASUREMENTS										
Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
2:48 PM		59/37 sec								See attached Data Sheet
		8.19/m								
SAMPLE INVENTORY										
Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)				
Time	Volume	Composition (G, P)	No.							
Comments:					 <b>VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT</b>					
Sum 7 atypsd 10-1-13										

Filename	20130926 - NW-000425.dat
Model	556
ID	
Revision	1.13
Site name	NW000425

Date.Y/M/D	Time HH:MM:SS	Temp C	Cond mS	SpCond uS	TDS g/L	Sal ppt	DOsat %	DO mg/L	pH	pH mV	Orp mV	Resist MOhm*cm	DOchrgI
2013/09/26	14:58:44	23.76	1.759	1801	1.171	0.91	57.4	4.83	6.09	36.7	89.6	0.001	0.0
2013/09/26	14:59:44	23.34	1.755	1812	1.178	0.92	17.3	1.47	6.51	13.0	-40.9	0.001	0.0
2013/09/26	15:00:44	23.35	1.758	1815	1.180	0.92	16.8	1.42	6.63	6.1	-62.2	0.001	0.0
2013/09/26	15:01:44	23.34	1.760	1817	1.181	0.92	16.9	1.43	6.71	1.8	-69.2	0.001	0.0
2013/09/26	15:02:44	23.34	1.763	1820	1.183	0.92	19.9	1.69	6.78	-1.9	-71.5	0.001	0.0
2013/09/26	15:03:44	23.54	1.777	1828	1.188	0.93	25.1	2.12	6.78	-2.2	-75.8	0.001	0.0
2013/09/26	15:04:44	23.67	1.783	1830	1.189	0.93	28.2	2.38	6.82	-4.4	-80.3	0.001	0.0
2013/09/26	15:05:44	23.68	1.783	1829	1.189	0.93	37.7	3.18	6.86	-6.7	-79.2	0.001	0.0
2013/09/26	15:06:44	23.63	1.783	1831	1.190	0.93	44.3	3.74	6.88	-7.8	-74.7	0.001	0.0
2013/09/26	15:07:44	23.57	1.780	1830	1.190	0.93	48.4	4.08	6.90	-8.6	-69.8	0.001	0.0
2013/09/26	15:08:44	23.51	1.778	1830	1.190	0.93	51.8	4.38	6.90	-9.0	-64.5	0.001	0.0
2013/09/26	15:09:44	23.46	1.777	1831	1.190	0.93	55.1	4.66	6.91	-9.3	-59.8	0.001	0.0
2013/09/26	15:10:44	23.42	1.776	1831	1.190	0.93	57.8	4.89	6.91	-9.3	-55.5	0.001	0.0
2013/09/26	15:11:44	23.40	1.775	1831	1.190	0.93	58.8	4.98	6.91	-9.4	-51.3	0.001	0.0
2013/09/26	15:12:44	23.39	1.775	1831	1.190	0.93	60.2	5.10	6.91	-9.4	-47.7	0.001	0.0

USQM - 2013/10-01-03

*Jim Falgout*

WQM -20131001-04

**GROUNDWATER MONITORING RECORD**

PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: DW-000237 Date: 9-26-13  
 Location: 2763 McCoy Rd Starting Water Level (ft. below BMP): \_\_\_\_\_  
 Owner: Jerry Hrock Casing Stickup (ft.): \_\_\_\_\_  
 Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_  
 Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_  
 Sampled by: \_\_\_\_\_ Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox

Disposal of Discharged Water: \_\_\_\_\_

Purging: \_\_\_\_\_

Sampling: \_\_\_\_\_

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS

Field Calibration: PH7-1500/PH4-1460/PH10.0-1525

Conductivity: YSI 556 MPS

Field Calibration: 6883 8,974 µmhos

ORP Meter: YSI 556 MPS

Field Calibration: 7800 +229 mV

DO Meter: YSI 556 MPS

Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS

Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

Other: \_\_\_\_\_

	Check Solution	Field Reading
Temperature	<u>21-25</u>	<u>22.63</u>
pH	<u>6.8-7.2</u>	<u>7.03</u>
Conductivity	<u>7630-8010</u>	<u>7956</u>
ORP	<u>212-242</u>	<u>222.5</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
	-		-	-	-	-	-	-	-	
<u>3:22pm</u>		<u>59/45sec</u>								<u>See Attached Data Sheet</u>
		<u>6.69/m</u>								

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments:

Jim Falgout 10-1-13



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

Filename	20130926 - GW-000237.dat
Model	556
ID	
Revision	1.13
Site name	GW0000237

Date.Y/M/D	Time HH:MM:SS	Temp C	Cond mS	SpCond uS	TDS g/L	Sal ppt	DOsat %	DO mg/L	pH	pH mV	Orp mV	Resist MOhm*cm	DOchrgI
2013/09/26	15:35:28	25.04	1.604	1603	1.042	0.81	83.3	6.85	5.77	54.8	158.1	0.001	0.0
2013/09/26	15:36:28	23.63	1.598	1640	1.066	0.83	45.4	3.83	6.92	-9.7	105.7	0.001	0.0
2013/09/26	15:37:28	23.62	1.596	1639	1.065	0.83	44.1	3.72	6.92	-10.1	103.6	0.001	0.0
2013/09/26	15:38:28	23.63	1.595	1638	1.065	0.83	43.8	3.70	6.94	-11.0	102.1	0.001	0.0
2013/09/26	15:39:28	23.69	1.597	1638	1.065	0.83	43.3	3.65	6.96	-11.9	101.0	0.001	0.0
2013/09/26	15:40:28	23.72	1.598	1638	1.065	0.83	43.4	3.66	6.96	-12.4	100.0	0.001	0.0
2013/09/26	15:41:28	23.62	1.595	1639	1.065	0.83	43.7	3.69	6.98	-13.1	99.2	0.001	0.0
2013/09/26	15:42:28	23.63	1.595	1638	1.065	0.83	44.1	3.72	6.98	-13.4	98.5	0.001	0.0
2013/09/26	15:43:28	23.72	1.597	1637	1.064	0.83	43.9	3.70	6.98	-13.4	98.0	0.001	0.0
2013/09/26	15:44:28	23.65	1.595	1637	1.064	0.83	43.9	3.71	6.98	-13.4	97.6	0.001	0.0
2013/09/26	15:45:28	23.54	1.590	1636	1.063	0.82	44.0	3.72	6.98	-13.1	97.3	0.001	0.0
2013/09/26	15:46:28	23.58	1.591	1635	1.063	0.82	43.7	3.69	6.97	-12.8	97.1	0.001	0.0
2013/09/26	15:47:28	23.64	1.592	1635	1.063	0.82	43.7	3.69	6.97	-12.9	96.8	0.001	0.0
2013/09/26	15:48:28	23.63	1.591	1634	1.062	0.82	43.6	3.68	6.97	-12.6	96.6	0.001	0.0
2013/09/26	15:49:28	23.59	1.590	1634	1.062	0.82	43.9	3.71	6.97	-12.4	96.4	0.001	0.0

1130M-20131008-04

*Lim F alger*  
16-1-13

WOM-20131001-05

**GROUNDWATER MONITORING RECORD**

State Well ID: \_\_\_\_\_ District Well ID: AW-000163 Date: 9-26-13

Location: 356 Hosek Rd Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Kenneth Hanslik Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: \_\_\_\_\_ Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: \_\_\_\_\_

Purging: \_\_\_\_\_ Sampling: \_\_\_\_\_

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-146/PHM0-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974 μmhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 ±229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>22.63</u>
pH	<u>6.8 - 7.2</u>	<u>7.03</u>
Conductivity	<u>7630 - 8010</u>	<u>7956</u>
ORP	<u>212 - 242</u>	<u>222.5</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (μS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>4:33</u>		<u>59/33sec</u>								<u>See attached DataSheet</u>
		<u>9.09 g/m</u>								

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: Sum 7 analyzed 10/1/13



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

Filename	20130926 - GW-000163.dat
Model	556
ID	
Revision	1.13
Site name	GW000163

Date:Y/M/D:	Time HH:MM:SS	Temp C	Cond mS	SpCond uS	TDS g/L	Sal ppt	DOsat %	DO mg/L	pH	pH mV	Orp mV	Resist MOhm*cm	DOchrgl
2013/09/26	16:45:16	23.91	1.817	1856	1.206	0.94	50.6	4.24	6.77	-1.3	124.2	0.001	0.0
2013/09/26	16:46:16	23.97	1.817	1853	1.205	0.94	18.7	1.57	6.80	-3.0	121.7	0.001	0.0
2013/09/26	16:47:16	23.74	1.806	1850	1.203	0.94	17.2	1.45	6.81	-3.8	120.2	0.001	0.0
2013/09/26	16:48:16	23.87	1.811	1851	1.203	0.94	16.7	1.40	6.82	-4.5	119.2	0.001	0.0
2013/09/26	16:49:16	23.81	1.808	1850	1.203	0.94	16.4	1.38	6.83	-5.0	118.5	0.001	0.0
2013/09/26	16:50:16	23.77	1.806	1850	1.202	0.94	16.3	1.37	6.84	-5.3	117.9	0.001	0.0
2013/09/26	16:51:16	23.85	1.810	1850	1.203	0.94	16.2	1.36	6.84	-5.4	117.6	0.001	0.0
2013/09/26	16:52:16	23.71	1.803	1848	1.201	0.94	16.1	1.36	6.84	-5.5	117.2	0.001	0.0
2013/09/26	16:53:16	23.79	1.807	1849	1.202	0.94	16.0	1.35	6.84	-5.6	116.9	0.001	0.0
2013/09/26	16:54:16	23.76	1.804	1848	1.201	0.94	16.0	1.34	6.84	-5.5	116.7	0.001	0.0
2013/09/26	16:55:16	23.74	1.803	1848	1.201	0.94	16.0	1.34	6.84	-5.6	116.4	0.001	0.0
2013/09/26	16:56:16	23.80	1.806	1849	1.202	0.94	15.9	1.34	6.84	-5.6	116.2	0.001	0.0
2013/09/26	16:57:16	23.70	1.801	1847	1.201	0.94	16.0	1.35	6.84	-5.6	115.9	0.001	0.0
2013/09/26	16:58:16	23.76	1.804	1848	1.201	0.94	15.9	1.34	6.84	-5.6	115.7	0.001	0.0
2013/09/26	16:59:16	23.74	1.803	1847	1.201	0.94	15.9	1.33	6.84	-5.6	115.5	0.001	0.0

WQW-2013/09/26-05

*Jim Falego*  
10-1-13

WQM - 20131018-01

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: GW-000395 Date: 10-18-2013

Location: 1190 Benbow Rd Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Mark Medel Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: 1.85 Starting Water Level (ft. BGL): 24.45

Casing Diameter (in ID): 4 Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltsysek Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox  Disposal of Discharged Water: N/A

Purging: 10min. from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH10.0-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974  $\mu$ mhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 +225 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>21.66</u>
pH	<u>6.8 - 7.2</u>	<u>7.00</u>
Conductivity	<u>7630 - 8010</u>	<u>7916</u>
ORP	<u>212 - 242</u>	<u>221.9</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>1:57 PM</u>		<u>5g/40sec</u>								
		<u>7.5g/m</u>								<u>See attached Data Sheet.</u>

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments:  
Tim Faltsysek 10-18-2013





Filename	GW000395.dat
Model	556
ID	
Revision	1.13
Site name	GW000395

Date Y/M/D	Time HH:MM:SS	Temp C	Cond mS	SpCond uS	TDS g/L	Sal ppt	DOsat %	DO mg/L	pH	pH mV	Orp mV	Resist MOhm/cm	DO chrg
2013/10/17	14:09:31	24.35	1.360	1377	0.895	0.69	20.8	1.73	6.94	0.4	34.1	0.001	0.0
2013/10/17	14:10:31	24.00	1.348	1374	0.893	0.69	6.1	0.51	6.94	0.5	10.0	0.001	0.0
2013/10/17	14:11:31	23.83	1.341	1371	0.891	0.69	3.9	0.33	6.94	0.7	7.0	0.001	0.0
2013/10/17	14:12:31	23.76	1.336	1368	0.889	0.68	3.1	0.26	6.94	0.2	8.0	0.001	0.0
2013/10/17	14:13:31	23.72	1.336	1369	0.890	0.68	2.6	0.22	6.95	-0.2	8.8	0.001	0.0
2013/10/17	14:14:31	23.70	1.333	1367	0.889	0.68	2.4	0.20	6.96	-0.7	10.0	0.001	0.0
2013/10/17	14:15:31	23.69	1.333	1368	0.889	0.68	2.2	0.18	6.96	-0.8	11.2	0.001	0.0
2013/10/17	14:16:31	23.67	1.332	1367	0.888	0.68	2.0	0.17	6.98	-1.7	12.4	0.001	0.0
2013/10/17	14:17:31	23.67	1.332	1366	0.888	0.68	1.9	0.16	6.98	-1.8	13.5	0.001	0.0
2013/10/17	14:18:31	23.65	1.331	1366	0.888	0.68	1.9	0.16	6.99	-2.5	14.5	0.001	0.0
2013/10/17	14:19:31	23.65	1.330	1365	0.887	0.68	1.8	0.16	7.00	-2.7	15.5	0.001	0.0
2013/10/17	14:20:31	23.64	1.329	1364	0.887	0.68	1.8	0.15	7.01	-3.3	16.5	0.001	0.0
2013/10/17	14:21:31	23.64	1.328	1363	0.886	0.68	1.8	0.15	7.01	-3.5	17.4	0.001	0.0
2013/10/17	14:22:31	23.64	1.328	1364	0.887	0.68	1.8	0.15	7.02	-4.1	18.3	0.001	0.0
2013/10/17	14:23:31	23.63	1.328	1364	0.887	0.68	1.8	0.15	7.04	-4.7	18.3	0.001	0.0

1000W-20131018-01

*Jim Falegan*  
10-18-2013

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: NW-000 493 Date: 3-13-2014

Location: 156 Serene Dr. East Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Josue Puente Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: TIM FATHUSEK Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged 10 min. from well Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH10.0-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 8974 μmhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

Other:	Check Solution		Field Reading
	Temperature	pH	Conductivity
	21 - 25	6.8 - 7.2	7918
			220.1

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (μS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
1:16 pm	59/26.61	11.39/m								See attached Data Sheet

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: Jim Fathusek 3-18-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

Date:Time.M/D/Y:HH:MM:SS	Temp C	SpCond uS	Sal ppt	DOsat %	DO mg/L	pH	pH mV	Orp mV
03/13/14 12:42:28	23.73	1574	0.79	39.9	3.36	6.68	6.2	145.8
03/13/14 14:51:47	27.45	4729	2.52	119.3	9.30	4.09	149.4	248.2
03/13/14 14:51:54	27.45	4729	2.52	113.3	8.83	4.08	149.8	248.3

WQM - 20140318 - 01

**GROUNDWATER MONITORING RECORD**

State Well ID: \_\_\_\_\_ District Well ID: DW-000489 Date: 3-13-2014  
 Location: 259 Serene Dr E. Starting Water Level (ft. below BMP): \_\_\_\_\_  
 Owner: Jesse Estrada Casing Stickup (ft.): \_\_\_\_\_  
 Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_  
 Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_  
 Sampled by: Tim Faltsek Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox

Disposal of Discharged Water: N/A

Purging: Purged 10 min. from faucet

Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS

Field Calibration: PH7-1500/PH4-1460/PH10.0-1525

Conductivity: YSI 556 MPS

Field Calibration: 6883 8974 µmhos

ORP Meter: YSI 556 MPS

Field Calibration: 7800 +229 mV

DO Meter: YSI 556 MPS

Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS

Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

Other: \_\_\_\_\_

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>22.71</u>
pH	<u>6.8 - 7.2</u>	<u>7.08</u>
Conductivity	<u>7670 - 8010</u>	<u>7518</u>
ORP	<u>212 - 242</u>	<u>220.1</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>2:13</u>	<u>5/9 37.28</u>	<u>7.94 g/m</u>								

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: Jim Faltsek 03-18-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

WQM- 20140319-01

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: **NW-000493** Date: **3-18-2014**

Location: **156 Serene Dr.** Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: **Josue N. Puente** Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: **Tim Faltysek** Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: \_\_\_\_\_

Purging: \_\_\_\_\_ Sampling: \_\_\_\_\_

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS	Field Calibration: <b>PH7-1500/PH4-1460/PH10.0-1525</b>
Conductivity: YSI 556 MPS	Field Calibration: <b>6883 8,914 <math>\mu</math>mhos</b>
ORP Meter: YSI 556 MPS	Field Calibration: <b>7800 +229 mV</b>
DO Meter: YSI 556 MPS	Field Calibration (Optional): _____
Thermometer: YSI 556 MPS	Check: A check solution will be used to validate calibration.
TDS: YSI 556 MPS	
Other: _____	

	Check Solution	Field Reading
Temperature	<b>21 - 25</b>	<b>22.55</b>
pH	<b>6.8 - 7.2</b>	<b>7.00</b>
Conductivity	<b>7630 - 8010</b>	<b>7930</b>
ORP	<b>212 - 242</b>	<b>220.1</b>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<b>12:21pm</b>			<b>23.86</b>	<b>6.86</b>	<b>1542</b>		<b>143.8</b>		<b>1.025</b>	
<b>12:26</b>			<b>23.87</b>	<b>6.87</b>	<b>1542</b>		<b>137.5</b>		<b>1.025</b>	
<b>12:31</b>			<b>24.00</b>	<b>6.78</b>	<b>1544</b>		<b>138.0</b>		<b>1.023</b>	
<b>12:36</b>			<b>23.97</b>	<b>6.69</b>	<b>1542</b>		<b>139.6</b>		<b>1.023</b>	
<b>12:41</b>			<b>23.90</b>	<b>6.62</b>	<b>1541</b>		<b>141.2</b>		<b>1.022</b>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
<b>12:33pm</b>	<b>250 ml</b>	<b>G</b>	<b>1</b>	<b>N</b>		<b>ice was - 201403-01</b>
<b>12:33pm</b>	<b>500 ml</b>	<b>G</b>	<b>1</b>	<b>N</b>	<b>HNO3</b>	<b>ice was - 201403-01</b>
<b>12:33pm</b>	<b>2L</b>	<b>G</b>	<b>1</b>	<b>N</b>		<b>ice was - 201403-01</b>

Comments: **Tim Faltysek - 3-19-2014**



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

# B Environmental Laboratory

2713 Houston Hwy, Victoria, Texas 77901 ph. (361) 572-8224

# Chain Of Custody Record

Batch #

TEMP UN-C: 12.7

Page 1 of 1

## Customer / Report Information

## Billing Information

Check box if Billing is the same as Report Information

THERM ID# 3

TEMP Corr: 12.7

Name: VCGC D	Address: 2605 N. NAVARRO ST ST 210 Victoria, Texas 77901	Phone: 361-572-6863	FAX:
Attention: Tim Faltyssek	Attention: Tim Anchluss	EMAIL: tim.faltyssek@vcgcd.org	
Address: 2605 N. NAVARRO ST ST 210 Victoria, Texas 77901	Project: Severe Duv	Requested Analysis	
Comments:		Completed By laboratory	

20140319-01 WQM-

Sample Information			Matrix	Container			Preservative				Custody Seals Present			
Client / Field Sample ID	Collected		G = Grab C = Composite	TYPE	NUMBER	Size	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Date	Time												
WQS-20140318-01	3-18-14	12:33pm	G	L	P	3	250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X	
WQS-20140318-02	3-18-14	1:39pm	G	L	P	3	250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X	
WQS-20140318-03	3-18-14	2:39pm	G	L	P	3	250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X	
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					

TDS, Sulfate  
BrCl, Alk  
Cadm, K, Na  
Iodide

Required Turnaround:  Routine (6-10 days)  Expedite / Rush:  24 hrs  48 hrs  3 days  5 days  Other \_\_\_\_\_

REMARKS: Urine, pat taken

Surcharge will apply to RUSH TAT Authorized BY: \_\_\_\_\_ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: \_\_\_\_\_

Relinquished By: <i>Tim Faltyssek</i>	Date: 3-18-14	Time: 3:40pm	Received By: <i>USO</i>	Date: 3-18-14	Time: 15:40
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: Gw-000489 Date: 3-18-2014

Location: 259 Serene Drive Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Jesse Estrada Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: 1.6 Starting Water Level (ft. BGL): 34.1

Casing Diameter (in ID): 4 Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tom Faltysek Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment (DI water) and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged 10 min. from faucet Sampling:

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH10.0-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974 µmhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>22.55</u>
pH	<u>6.8 - 7.2</u>	<u>7.08</u>
Conductivity	<u>2630 - 8010</u>	<u>7930</u>
ORP	<u>212 - 242</u>	<u>220.1</u>

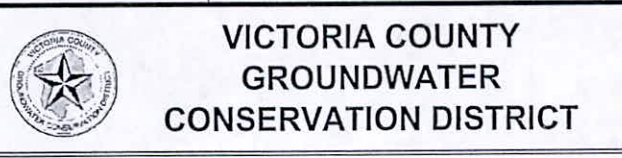
**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>1:17pm</u>			<u>24.00</u>	<u>6.16</u>	<u>2394</u>			<u>116.1</u>	<u>1.584</u>	
<u>1:20pm</u>			<u>24.26</u>	<u>6.54</u>	<u>2408</u>			<u>-19.6</u>	<u>1.587</u>	
<u>1:23pm</u>			<u>24.23</u>	<u>6.65</u>	<u>2454</u>			<u>-42.0</u>	<u>1.619</u>	
<u>1:26pm</u>			<u>24.32</u>	<u>6.71</u>	<u>2479</u>			<u>-53.0</u>	<u>1.632</u>	
<u>1:29pm</u>			<u>24.35</u>	<u>6.73</u>	<u>2493</u>			<u>-58.5</u>	<u>1.641</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
<u>1:39pm</u>	<u>250ml</u>	<u>G</u>	<u>1</u>	<u>N</u>		<u>icc - WQS - 20140318-02</u>
<u>1:39pm</u>	<u>500ml</u>	<u>G</u>	<u>1</u>	<u>N</u>	<u>HNO3</u>	<u>icc - WQS - 20140318-02</u>
<u>1:39pm</u>	<u>2L</u>	<u>G</u>	<u>1</u>	<u>N</u>		<u>icc - WQS - 20140318-02</u>

Comments: Tom Faltysek 3-19-2014



# B Environmental Laboratory

2713 Houston Hwy, Victoria, Texas 77901 ph. (361) 572-8224

# Chain Of Custody Record

Batch # \_\_\_\_\_ TEMP UN-C: 12.7 Page 1 of 1

## Customer / Report Information

## Billing Information

Check box if Billing is the same as Report Information

THERM ID# 3

TEMP Corr: 12.7

Name: VCGCD	Address: 2605 N. NAVARRO ST # 210 Victoria, Texas 77901	Phone: 361-572-6863	FAX: _____
Attention: Tim Faltyssek	Attention: Tim Anchluss	EMAIL: Tim.faltyssek@vcgcd.org	
Address: 2605 N. NAVARRO ST # 210 Victoria, Texas 77901	Project: Serene Duv-	Requested Analysis _____	
Comments: _____		Completed By laboratory _____	

WQM-20140319-02

Sample Information			Matrix	Container			Preservative				Custody Seals Present			
Client / Field Sample ID	Collected		G = Grab C = Composite	TYPE	NUMBER	Size	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					Yes <input type="checkbox"/>	No <input type="checkbox"/>
	Date	Time												
WQS-20140318-01	3-18-14	12:33pm	G	L	P3	250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X		
WQS-20140318-02	3-18-14	1:39pm	G	L	P3	250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X		
WQS-20140318-03	3-18-14	2:39pm	G	L	P3	250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X		
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL						
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL						
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL						

TDS, Sulfate, Br, Cl, Alk, Ca, Mg, K, Na, Iodide

Required Turnaround:  Routine (6-10 days)  Expedite / Rush:  24 hrs  48 hrs  3 days  5 days  Other \_\_\_\_\_ REMARKS: Unice, post taken

Surcharge will apply to RUSH TAT Authorized BY: _____				Container Type: P=Plastic, G=Glass, V=Voa, O=Other				Carrier ID: _____			
Relinquished By: <i>Tim Faltyssek</i>	Date: 3-18-14	Time: 3:40pm	Received By: <i>USO</i>	Date: 3-18-14	Time: 15:40						
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____						
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____						



**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: NW-000310 Date: 3-18-2014

Location: 98 Serene Dr. West Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Rodney Howell Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltyssek Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: \_\_\_\_\_

Purging: \_\_\_\_\_ Sampling: \_\_\_\_\_

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH10.0-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974  $\mu$ mhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>22.55</u>
pH	<u>6.8 - 7.2</u>	<u>7.08</u>
Conductivity	<u>7630 - 8010</u>	<u>7930</u>
ORP	<u>212 - 242</u>	<u>220.1</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>2:23pm</u>			<u>22.50</u>	<u>6.40</u>	<u>2552</u>		<u>152.7</u>		<u>1.742</u>	
<u>2:26pm</u>			<u>22.97</u>	<u>6.58</u>	<u>2574</u>		<u>93.3</u>		<u>1.741</u>	
<u>2:29pm</u>			<u>23.26</u>	<u>6.57</u>	<u>2589</u>		<u>44.9</u>		<u>1.741</u>	
<u>2:32pm</u>			<u>23.44</u>	<u>6.57</u>	<u>2599</u>		<u>25.7</u>		<u>1.741</u>	
<u>2:35pm</u>			<u>23.54</u>	<u>6.55</u>	<u>2605</u>		<u>18.4</u>		<u>1.742</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
<u>2:39pm</u>	<u>250 ml</u>	<u>G</u>	<u>1</u>	<u>N</u>		<u>Ice - WQS-20140318-03</u>
<u>2:35pm</u>	<u>500 ml</u>	<u>G</u>	<u>1</u>	<u>N</u>	<u>HNO3</u>	<u>Ice - WQS-20140318-03</u>
<u>2:37m</u>	<u>2L</u>	<u>G</u>	<u>1</u>	<u>N</u>		<u>Ice - WQS-20140318-03</u>

Comments: Tim Faltyssek 3-19-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

# B Environmental Laboratory

2713 Houston Hwy, Victoria, Texas 77901 ph. (361) 572-8224

# Chain Of Custody Record

Batch #

TEMP UN-C: 12.7

Page 1 of 1

## Customer / Report Information

## Billing Information

Check box if Billing is the same as Report Information

THERM ID# 3

TEMP Corr: 12.7

Name: VCGCD  
 Attention: Tim Faltyssek  
 Address: 2805 N. NAVARRO ST #1210  
 Victoria, Texas 77901

Address: 2805 N. NAVARRO ST #210  
 Victoria, Texas 77901  
 Attention: Tim Andhuss  
 Project: Serene Duv  
 Comments:

Phone: 361-572-6863 FAX:  
 EMAIL: Tim.faltyssek@vcgcd.org  
 Requested Analysis  
 Completed By laboratory

20140319-03 WQM-

## Sample Information

Client / Field Sample ID	Collected		C = Grab G = Grab	Matrix		Container		Preservative	Custody Seals Present					
	Date	Time		TYPE	NUMBER	Size	Yes <input type="checkbox"/>		No <input type="checkbox"/>	Intact	LAB Sample Number			
WQS-20140318-01	3-18-14	12:33pm	G	L	P	3	250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X	
WQS-20140318-02	3-18-14	1:39pm	G	L	P	3	250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X	
WQS-20140318-03	3-18-14	2:39pm	G	L	P	3	250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X	
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					

TDS, Sulfate  
Br, Cl, Alk  
Cadmium, Ni, Pb  
Iodide

Required Turnaround:  Routine (6-10 days) Expedite / Rush:  24 hrs  48 hrs  3 days  5 days  Other \_\_\_\_\_ REMARKS: Unice, just taken

Surcharge will apply to RUSH TAT Authorized BY: \_\_\_\_\_ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: \_\_\_\_\_

Relinquished By: <i>Tim Faltyssek</i>	Date: 3-18-14	Time: 3:40pm	Received By: <i>USO</i>	Date: 3-18-14	Time: 15:40
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

DATE: 5 / 7 / 2013

STATE WELL NUMBER 8010101

OWNER: T.S. Clements

COUNTY: Victoria DW-000239

AQUIFER: LISSIE FORMATION

RELIABILITY REMARKS: Sampled using TWDB protocols

COLLECTING ENTITY: Texas Water Development Board and Predecessor Agencies

LAB: LCRA - Lower Colorado River Authority

COLLECTION REMARKS:

Asterisk (\*) next to value indicates that the constituent exceeds TCEQ standards (MCL) for drinking water.

Calcium	24.9 mg/L	Carbonate *	0 mg/L	Dissolved Solids	518 mg/L
Magnesium	12.6 mg/L	Bicarbonate *	360 mg/L	Hardness as CaCO3	115 mg/L *
Sodium	147 mg/L	Sulfate	< 1 mg/L	SAR	5.98
Potassium	2.11 mg/L	Chloride	135 mg/L	Conductivity	786 uS*
Strontium *	0.82 mg/L	Fluoride *	0.49 mg/L	pH	7.46 *
Silica *	18.3 mg/L	Nitrate as NO <sub>3</sub> *	< 0.02 mg/L	Temperature	25°C

DESCRIPTION	FLAG	VALUE	+/-
ALKALINITY, FIELD, DISSOLVED AS CaCO3		290	
ALPHA, DISSOLVED (PC/L)		5.06	2.7
ALUMINUM, DISSOLVED (UG/L AS AL)	<	4.0	
ANTIMONY, DISSOLVED (UG/L AS SB)	<	1.0	
ARSENIC, DISSOLVED (UG/L AS AS)	<	2.0	
BARIUM, DISSOLVED (UG/L AS BA)		947	
BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1.0	
BORON, DISSOLVED (UG/L AS B)		418	
BROMIDE, DISSOLVED, (MG/L AS BR)		0.50	
CADMIUM, DISSOLVED (UG/L AS CD)	<	1.0	
CHROMIUM, DISSOLVED (UG/L AS CR)		10.9	
COBALT, DISSOLVED (UG/L AS CO)	<	1.0	
COPPER, DISSOLVED (UG/L AS CU)		1.9	
IRON, DISSOLVED (UG/L AS FE)		54	
LEAD, DISSOLVED (UG/L AS PB)	<	1.0	
LITHIUM, DISSOLVED (UG/L AS LI)		44.1	
MANGANESE, DISSOLVED (UG/L AS MN)		10.6	
MOLYBDENUM, DISSOLVED, UG/L	<	1.0	
NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)	<	0.020	
PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.020	

# Texas Water Development Board

P.O. Box 13231, 1700 N. Congress Ave.  
Austin, TX 78711-3231, [www.twdb.texas.gov](http://www.twdb.texas.gov)  
Phone (512) 463-7847, Fax (512) 475-2053

February 27, 2014

Mr. T. S. Clements  
PO Box 3987  
Victoria, TX 77903

Dear Mr. Clements:

Pursuant to Texas Water Code, §16.012, the Texas Water Development Board is directed to “make studies, investigations and surveys of the occurrence, quantity, quality and availability of the ground water of the State.” For these purposes, we are directed to “collect, receive, analyze and process basic data concerning the water resources of the State.” In order to accomplish these objectives, we chose your well for chemical sampling of inorganic constituents to help establish the baseline quality of the groundwater in your area and to detect any significant changes in quality which may have occurred since the last sampling. We collected the water sample directly from the well head to obtain an accurate analysis of the groundwater before treatment; therefore, your tap water quality may differ because of plumbing, filtering, softening, storage in pressure tanks, water heaters and other associated devices that may be added to your system.

Enclosed is a copy of the Chemical Water Analysis Report summarizing results of the water quality from your well. To assist you in evaluating the report, we are also enclosing an information sheet explaining sources, properties of water, significance of dissolved-mineral constituents, and methods for their removal.

**If the constituent value is below the concentration that the laboratory’s instrument can reliably achieve, you will find a less than (<) flag left of the value. Although we do not report the results of these analyses to the Texas Commission on Environmental Quality (TCEQ), if any constituent value exceeds its drinking water standard set by the TCEQ, you will find an asterisk (\*) to the right of the value on the report.** Furthermore, we have not analyzed for all types of dissolved constituents that could occur in your well water so it could contain excesses of drinking water standards, such as bacteria or chemically complex organic compounds that may have been introduced into the groundwater by human activity. Please address any questions you might have about constituents for which we do not analyze to your local County Health Officer or the Public Drinking Water Team at the Texas Commission on Environmental Quality offices in Austin at (512) 239-4691 or [pdws@tceq.texas.gov](mailto:pdws@tceq.texas.gov).

Your cooperation and support of our programs is appreciated. We hope this information will be beneficial to you.

Sincerely,



Chris Muller, P.G.  
Ground Water Program Specialist  
(512) 936-0846

Enclosure  
CM/gr

Received  
3-24-2014 D4  
in the office of



Our Mission	:	Board Members
To provide leadership, planning, financial assistance, information, and education for the conservation and responsible development of water for Texas	:	Carlos Rubinstein, Chairman   Bech Bruun, Member   Mary Ann Williamson, Member
	:	Kevin Patteson, Executive Administrator

<b>GROUNDWATER MONITORING RECORD</b>		PAGE 1 of 1
State Well ID:	District Well ID: <u>NW-000444</u>	Date: <u>3-21-2014</u>
Location: <u>3551 Fm 614</u>	Starting Water Level (ft. below BMP):	
Owner: <u>Noel Olguin</u>	Casing Stickup (ft.):	
Measuring Point (MP) of Well:	Starting Water Level (ft. BGL):	
Casing Diameter (in ID):	Total Depth (ft. BGL):	
Sampled by: <u>Tim Faltyssek</u>	Casing Volume (gal.):	

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox      Disposal of Discharged Water: N/A

Purging:      Sampling:

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS	Field Calibration: <u>PH7-1500/PH4-1460/PH10-0-1525</u>
Conductivity: YSI 556 MPS	Field Calibration: <u>6883 8,974 µmhos</u>
ORP Meter: YSI 556 MPS	Field Calibration: <u>7800 +229 mV</u>
DO Meter: YSI 556 MPS	Field Calibration (Optional):
Thermometer: YSI 556 MPS	Check: A check solution will be used to validate calibration.
TDS: YSI 556 MPS	
Other:	

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>21.68</u>
pH	<u>6.8 - 7.2</u>	<u>7.09</u>
Conductivity	<u>7630-8010</u>	<u>7916</u>
ORP	<u>212-242</u>	<u>214.5</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>2:47</u>	<u>59/2720</u>	<u>119/m</u>								
<u>2:57pm</u>			<u>24.29</u>	<u>6.31</u>	<u>3473</u>		<u>139.9</u>		<u>2289</u>	
<u>3:00pm</u>			<u>24.39</u>	<u>6.65</u>	<u>3411</u>		<u>13.5</u>		<u>2244</u>	
<u>3:03pm</u>			<u>24.37</u>	<u>6.68</u>	<u>3345</u>		<u>-16.1</u>		<u>2200</u>	
<u>3:06pm</u>			<u>24.37</u>	<u>6.67</u>	<u>3304</u>		<u>-29.1</u>		<u>2174</u>	
<u>3:09pm</u>			<u>24.40</u>	<u>6.63</u>	<u>3266</u>		<u>-36.2</u>		<u>2147</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
<u>3:10</u>	<u>2L - 500ml</u> <u>250ml</u>	<u>G</u>	<u>3</u>	<u>N</u>	<u>HNO3</u>	<u>P</u>
<u>3:15</u>	<u>2L, 500ml</u> <u>25m</u>	<u>G</u>	<u>3</u>	<u>N</u>	<u>HNO3</u>	<u>P</u>

Comments: Jim Faltyssek 3-25-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

# B. Environmental Laboratory

## Chain Of Custody Record

Batch #

TEMP UN-C: 1.9

THERM ID# 3

TEMP Corr: 1.9

**Customer Information**

**Report Information**

Name: <i>Tim Faltysch</i>	Attention: <i>Tim Andrews</i>	Phone:	FAX:
Address: <i>28 UGGCD</i>	Project: <i>Serenade Drive</i>	EMAIL:	
Comments:		Requested Analysis	Completed By Laboratory

WQM - 20140325 - 01

Sample Information	Matrix	Container			Preservative	Custody Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> LAB Sample Number
		TYPE	NUMBER	Size		
Collected By: <i>Jeni Faltysch</i>	DW - Drinking H2O S - Solid WW - Waste H2O Sl - Sludge L - Liquid W - Water					
Client / Field Sample ID						
		Date	Time			
<i>WQS20140321-04</i>	<i>L</i>	<i>3-21-14</i>	<i>3:10pm</i>	<i>P</i>	<i>3</i>	<i>250</i>
<i>WQS20140321-05</i>	<i>L</i>	<i>3-21-14</i>	<i>3:15pm</i>	<i>P</i>	<i>3</i>	<i>250</i>

*1.0 ml  
Ca, Mg, Na, K  
TDS, sulfate  
EL, Cl, Alk*

Required Turnaround:  Routine (6-10 days) Expedite / Rush:  24 hrs  48 hrs  3 days  5 days  Other \_\_\_\_\_ REMARKS:

Surcharge will apply to RUSH TAT Authorized BY: \_\_\_\_\_ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID:

Relinquished By: <i>Jeni Faltysch</i>	Date: <i>3-24-14</i>	Time: <i>11:11</i>	Received By: <i>USE</i>	Date: <i>3-24-14</i>	Time: <i>11:11</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

<b>GROUNDWATER MONITORING RECORD</b>		PAGE 1 of 1
State Well ID:	District Well ID: <u>DW-000578</u>	Date: <u>3-28-2014</u>
Location: <u>13406 Nursery DR. 28°55.395N 97°05.800W</u>	Starting Water Level (ft. below BMP):	
Owner: <u>Lee Sills</u>	Casing Stickup (ft.):	
Measuring Point (MP) of Well: <u>1.5</u>	Starting Water Level (ft. BGL): <u>50.1</u>	
Casing Diameter (in ID): <u>4</u>	Total Depth (ft. BGL):	
Sampled by: <u>Tim Falgout</u>	Casing Volume (gal.):	

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox      Disposal of Discharged Water: N/A

Purging: Purged from faucet      Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS	Field Calibration: <u>PH7-1500/PH4-1460/PH10.0-1525</u>
Conductivity: YSI 556 MPS	Field Calibration: <u>8503 8,974 µmhos</u>
ORP Meter: YSI 556 MPS	Field Calibration: <u>700 +229 mV</u>
DO Meter: YSI 556 MPS	Field Calibration (Optional):
Thermometer: YSI 556 MPS	Check: A check solution will be used to validate calibration.

		Check Solution	Field Reading
Other:	Temperature	<u>21-25</u>	<u>21.67</u>
	pH	<u>6.8-7.2</u>	<u>7.03</u>
	Conductivity	<u>7630-8010</u>	<u>7850</u>
	ORP	<u>212-242</u>	<u>219.9</u>


**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>9:11am</u>	<u>59.185</u>	<u>4.429/min</u>								
<u>9:21a</u>			<u>22.22</u>	<u>6.39</u>	<u>727</u>		<u>119.2</u>		<u>0.499</u>	
<u>9:24a</u>			<u>22.48</u>	<u>6.77</u>	<u>737</u>		<u>92.4</u>		<u>0.499</u>	
<u>9:27a</u>			<u>22.70</u>	<u>6.82</u>	<u>734</u>		<u>88.5</u>		<u>0.499</u>	
<u>9:30a</u>			<u>22.86</u>	<u>6.84</u>	<u>737</u>		<u>86.6</u>		<u>0.499</u>	
<u>9:33a</u>			<u>22.99</u>	<u>6.86</u>	<u>738</u>		<u>85.5</u>		<u>0.499</u>	

**SAMPLE INVENTORY**

Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			

Comments: Tim Falgout 4-2-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: AW-000577 Date: 3-28-2014  
 Location: 13378 Nursery Dr 28°55.426N 97°05.792W Starting Water Level (ft. below BMP): \_\_\_\_\_  
 Owner: Lee Sills Casing Stickup (ft.): \_\_\_\_\_  
 Measuring Point (MP) of Well: 2.15 Starting Water Level (ft. BGL): 57.15  
 Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_  
 Sampled by: Jim Falgout Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**  
 Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: \_\_\_\_\_  
 Purging: \_\_\_\_\_ Sampling: \_\_\_\_\_

**INSTRUMENTS (Indicate make, model, I.D.)**  
 pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH100-1525  
 Conductivity: YSI 556 MPS Field Calibration: 6883 8,974 µmhos  
 ORP Meter: YSI 556 MPS Field Calibration: 7800 +229 mV  
 DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_  
 Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

Other:	Check Solution		Field Reading
	Temperature	pH	Conductivity
	21 - 25	6.8 - 7.2	7890
			219.9

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>9:56A</u>	<u>59/49.08</u>	<u>6.14g/m</u>	-	-	-	-	-	-	-	
<u>10:05A</u>			<u>22.93</u>	<u>6.88</u>	<u>697</u>		<u>133.1</u>		<u>0.472</u>	
<u>10:08A</u>			<u>23.09</u>	<u>6.82</u>	<u>698</u>		<u>103.7</u>		<u>0.471</u>	
<u>10:11A</u>			<u>23.21</u>	<u>6.87</u>	<u>699</u>		<u>100.8</u>		<u>0.471</u>	
<u>10:14A</u>			<u>23.28</u>	<u>6.89</u>	<u>700</u>		<u>100.3</u>		<u>0.471</u>	
<u>10:17A</u>			<u>23.33</u>	<u>6.90</u>	<u>701</u>		<u>100.0</u>		<u>0.471</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments:  
Jim Falgout 4-2-2014





**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: 2W-000472 Date: 7-28-2014

Location: \_\_\_\_\_ Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: David Williams Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltysci Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: \_\_\_\_\_ Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500 / PH4-1460 / PH100-1500

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974  $\mu$ mhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

Other: \_\_\_\_\_

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>21.67</u>
pH	<u>6.8 - 7.2</u>	<u>7.03</u>
Conductivity	<u>2630 - 8010</u>	<u>2850</u>
ORP	<u>212 - 242</u>	<u>219.9</u>


**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>11:15A</u>	<u>59.42.15</u>	<u>7.19/min</u>								
<u>11:27A</u>			<u>23.60</u>	<u>6.47</u>	<u>1059</u>		<u>132.7</u>		<u>0.706</u>	
<u>11:30A</u>			<u>23.72</u>	<u>6.62</u>	<u>1050</u>		<u>117.5</u>		<u>0.705</u>	
<u>11:33A</u>			<u>23.73</u>	<u>6.50</u>	<u>1050</u>		<u>116.4</u>		<u>0.705</u>	
<u>11:36A</u>			<u>23.73</u>	<u>6.48</u>	<u>1059</u>		<u>116.8</u>		<u>0.705</u>	
<u>11:39A</u>			<u>23.73</u>	<u>6.34</u>	<u>1059</u>		<u>117.8</u>		<u>0.705</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: Tim Faltysci 4-2-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

<b>GROUNDWATER MONITORING RECORD</b>		PAGE 1 of 1
State Well ID:	District Well ID: <u>BW-000494</u>	Date: <u>3-28-2014</u>
Location: <u>8123 Fm 236</u>	Starting Water Level (ft. below BMP):	
Owner: <u>Paul</u>	Casing Stickup (ft.):	
Measuring Point (MP) of Well: <u>1.8</u>	Starting Water Level (ft. BGL): <u>95.55</u>	
Casing Diameter (in ID):	Total Depth (ft. BGL):	
Sampled by: <u>Tim Faltysek</u>	Casing Volume (gal.):	

**QUALITY ASSURANCE**

**METHODS (describe):**  
 Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox  
 Disposal of Discharged Water: N/A  
 Purging: Purged from faucet  
 Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS	Field Calibration: <u>PH7-1500/PH4-1460/PH100-1525</u>
Conductivity: YSI 556 MPS	Field Calibration: <u>6885 8924 <math>\mu</math>mhos</u>
ORP Meter: YSI 556 MPS	Field Calibration: <u>7800 +229 mV</u>
DO Meter: YSI 556 MPS	Field Calibration (Optional):
Thermometer: YSI 556 MPS	Check: A check solution will be used to validate calibration.
TDS: YSI 556 MPS	
Other:	

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>21.67</u>
pH	<u>6.8 - 7.2</u>	<u>7.03</u>
Conductivity	<u>7630 - 8010</u>	<u>7890</u>
ORP	<u>212 - 242</u>	<u>219.9</u>

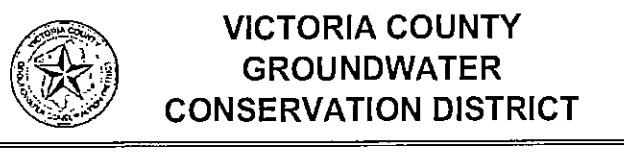
**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>12:18p</u>	<u>59.26</u>	<u>1153g/m</u>								
<u>12:28p</u>			<u>23.87</u>	<u>6.82</u>	<u>1153</u>		<u>1358</u>		<u>0.766</u>	
<u>12:31p</u>			<u>23.87</u>	<u>6.90</u>	<u>1152</u>		<u>133.3</u>		<u>0.765</u>	
<u>12:34p</u>			<u>23.87</u>	<u>6.87</u>	<u>1153</u>		<u>133.3</u>		<u>0.766</u>	
<u>12:37p</u>			<u>23.88</u>	<u>6.80</u>	<u>1153</u>		<u>133.7</u>		<u>0.766</u>	
<u>12:40p</u>			<u>23.88</u>	<u>7.70</u>	<u>1154</u>		<u>134.7</u>		<u>0.766</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments:  
Tim Faltysek 4-2-2014



<b>GROUNDWATER MONITORING RECORD</b>		PAGE 1 of 1
State Well ID:	District Well ID: <b>AW-000047</b>	Date: <b>3-28-2014</b>
Location: <b>2885 LMUR</b>	Starting Water Level (ft. below BMP):	
Owner: <b>20</b>	Casing Stickup (ft.):	
Measuring Point (MP) of Well: <b>1.3</b>	Starting Water Level (ft. BGL): <b>58.25</b>	
Casing Diameter (in ID):	Total Depth (ft. BGL):	
Sampled by: <b>Tim Faltsch</b>	Casing Volume (gal.):	

**QUALITY ASSURANCE**

**METHODS (describe):**  
 Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox  
 Disposal of Discharged Water: **N/A**  
 Purging: **Purged from faucet**  
 Sampling: **N/A**

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS	Field Calibration: <b>PH 7-1500/PH 4-1460/PH 10.0-1525</b>
Conductivity: YSI 556 MPS	Field Calibration: <b>6885 8574 <math>\mu</math>mhos</b>
ORP Meter: YSI 556 MPS	Field Calibration: <b>7800 +229 mV</b>
DO Meter: YSI 556 MPS	Field Calibration (Optional):
Thermometer: YSI 556 MPS	Check: A check solution will be used to validate calibration.


		Check Solution	Field Reading
Other:	Temperature	<b>21 -25</b>	<b>21.17</b>
	pH	<b>6.8 - 7.2</b>	<b>7.03</b>
	Conductivity	<b>7630 - 8010</b>	<b>7890</b>
	ORP	<b>212 - 242</b>	<b>219.9</b>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<b>3:45pm</b>	<b>59/18.85</b>	<b>159/m</b>								
<b>3:50p</b>			<b>23.92</b>	<b>6.90</b>	<b>597</b>		<b>138.3</b>	<b>0.396</b>		
<b>3:53p</b>			<b>23.89</b>	<b>7.07</b>	<b>924</b>		<b>125.0</b>	<b>0.614</b>		
<b>3:56p</b>			<b>23.92</b>	<b>7.05</b>	<b>925</b>		<b>125.7</b>	<b>0.614</b>		
<b>3:59p</b>			<b>23.95</b>	<b>7.04</b>	<b>925</b>		<b>124.2</b>	<b>0.614</b>		
<b>3:02p</b>			<b>23.97</b>	<b>7.01</b>	<b>925</b>		<b>124.4</b>	<b>0.613</b>		

**SAMPLE INVENTORY**

Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			

Comments: <div style="font-size: 2em; font-family: cursive;">             Jim Faltsch 4-2-2014         </div>	 <b>VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT</b>
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**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: NW-000453 Date: 3-28-2014

Location: 2885 LmUR Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: David Strauss Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: TIM FALTYSEL Casing Volume (gal): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged from Well Head Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH10.0 -1525

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974  $\mu$ mhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

		Check Solution	Field Reading
Other:	Temperature	<u>21 - 25</u>	<u>21.67</u>
	pH	<u>6.8 - 7.2</u>	<u>7.03</u>
	Conductivity	<u>7680-8010</u>	<u>7890</u>
	ORP	<u>212-242</u>	<u>219.9</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>4:12 pm</u>			<u>23.99</u>	<u>6.22</u>	<u>100.8</u>		<u>147.1</u>		<u>0.660</u>	
<u>4:15 pm</u>			<u>23.59</u>	<u>6.92</u>	<u>1017</u>		<u>120.8</u>		<u>0.679</u>	
<u>4:18 pm</u>			<u>23.61</u>	<u>6.97</u>	<u>1019</u>		<u>120.7</u>		<u>0.680</u>	
<u>4:21 pm</u>			<u>23.60</u>	<u>6.98</u>	<u>1021</u>		<u>121.6</u>		<u>0.682</u>	
<u>4:24 pm</u>			<u>23.61</u>	<u>7.00</u>	<u>1024</u>		<u>122.6</u>		<u>0.684</u>	

**SAMPLE INVENTORY**

Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			

Comments: Jim Faltsel 4-2-2012



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: NW-000179 Date: 3-26-2014

Location: 19593 FM 1686 Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Rafael Resendez Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (ip ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Timothy Selic Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: \_\_\_\_\_

Purging: \_\_\_\_\_ Sampling: \_\_\_\_\_

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH10.0-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974 µmhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

	Check Solution	Field Reading
Temperature	<u>21 -25</u>	<u>22.61</u>
pH	<u>6.8 - 7.2</u>	<u>7.00</u>
Conductivity	<u>7630-8010</u>	<u>7909</u>
ORP	<u>217-242</u>	<u>219.6</u>


**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>9:44am</u>	<u>59-37s</u>	<u>8.19/m</u>	-	-	-	-	-	-	-	
<u>9:56A</u>			<u>22.39</u>	<u>6.44</u>	<u>2074</u>		<u>133.2</u>		<u>1.419</u>	
<u>9:59A</u>			<u>22.50</u>	<u>6.82</u>	<u>2091</u>		<u>98.5</u>		<u>1.425</u>	
<u>10:02A</u>			<u>22.65</u>	<u>6.83</u>	<u>2096</u>		<u>94.2</u>		<u>1.426</u>	
<u>10:05A</u>			<u>22.65</u>	<u>6.85</u>	<u>2090</u>		<u>92.1</u>		<u>1.427</u>	
<u>10:08A</u>			<u>22.71</u>	<u>6.85</u>	<u>2101</u>		<u>90.9</u>		<u>1.420</u>	

**SAMPLE INVENTORY**

Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			

Comments: \_\_\_\_\_



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: NW-000122 Date: 3-26-2014

Location: 10796 HWY 185 S Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Nelda Flores Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Fattysell Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purge from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS	Field Calibration: <u>PH7-1500/PH4-146/PH100-1525</u>
Conductivity: YSI 556 MPS	Field Calibration: <u>6886 8974 <math>\mu</math>mhos</u>
ORP Meter: YSI 556 MPS	Field Calibration: <u>7800 + 229 mV</u>
DO Meter: YSI 556 MPS	Field Calibration (Optional): _____
Thermometer: YSI 556 MPS	Check: A check solution will be used to validate calibration.
TDS: YSI 556 MPS	
Other: _____	

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>22.61</u>
pH	<u>6.8 - 7.2</u>	<u>7.00</u>
Conductivity	<u>7630 - 8010</u>	<u>7909</u>
ORP	<u>712 - 242</u>	<u>219.6</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>10:28A</u>	<u>59.455</u>	<u>5.339/m</u>	-	-	-	-	-	-	-	
<u>10:38A</u>			<u>22.69</u>	<u>6.80</u>	<u>1918</u>		<u>111.4</u>		<u>1.305</u>	
<u>10:41A</u>			<u>22.83</u>	<u>6.80</u>	<u>1921</u>		<u>110.5</u>		<u>1.303</u>	
<u>10:44A</u>			<u>22.79</u>	<u>6.80</u>	<u>1919</u>		<u>110.1</u>		<u>1.302</u>	
<u>10:47A</u>			<u>22.84</u>	<u>6.80</u>	<u>1921</u>		<u>110.0</u>		<u>1.302</u>	
<u>10:50A</u>			<u>22.93</u>	<u>6.79</u>	<u>1925</u>		<u>110.1</u>		<u>1.303</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: NW-000425 Date: 3-26-2014

Location: 10715 HWY 185 S Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Janelle Beumbach Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltset Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS	Field Calibration: <u>PH7-1500/PH4-1460/PH10.0-1525</u>
Conductivity: YSI 556 MPS	Field Calibration: <u>6003 8,974 <math>\mu</math>mhos</u>
ORP Meter: YSI 556 MPS	Field Calibration: <u>2800 +225 mV</u>
DO Meter: YSI 556 MPS	Field Calibration (Optional): _____
Thermometer: YSI 556 MPS	Check: A check solution will be used to validate calibration.
TDS: YSI 556 MPS	
Other: _____	

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>22.61</u>
pH	<u>6.8 - 7.2</u>	<u>7.00</u>
Conductivity	<u>7630-8010</u>	<u>7909</u>
ORP	<u>212-242</u>	<u>219.6</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>11:31a</u>			<u>21.70</u>	<u>6.19</u>	<u>1694</u>		<u>94.8</u>		<u>1.175</u>	
<u>11:34a</u>			<u>21.52</u>	<u>6.70</u>	<u>1705</u>		<u>-26.2</u>		<u>1.187</u>	
<u>11:37a</u>			<u>22.19</u>	<u>6.76</u>	<u>1730</u>		<u>-36.6</u>		<u>1.188</u>	
<u>11:40a</u>			<u>22.48</u>	<u>6.81</u>	<u>1748</u>		<u>-35.1</u>		<u>1.190</u>	
<u>11:43a</u>			<u>22.86</u>	<u>6.83</u>	<u>1759</u>		<u>-32.3</u>		<u>1.192</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: DW-000037 Date: 3-26-2014

Location: 2763 McCoy Road Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Jerry H Rock Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltysck Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PHM-0-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974 µmhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 + 229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>22.61</u>
pH	<u>6.8 - 7.2</u>	<u>7.00</u>
Conductivity	<u>7630 - 8010</u>	<u>7909</u>
ORP	<u>212 - 242</u>	<u>219.6</u>

Other: \_\_\_\_\_

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>12:00pm</u>	<u>59.525</u>	<u>5.79/m</u>	-	-	-	-	-	-	-	
<u>12:11p</u>			<u>22.79</u>	<u>6.77</u>	<u>1592</u>		<u>85.0</u>		<u>1.080</u>	
<u>12:14p</u>			<u>22.89</u>	<u>6.84</u>	<u>1599</u>		<u>53.3</u>		<u>1.083</u>	
<u>12:17p</u>			<u>22.94</u>	<u>6.89</u>	<u>1600</u>		<u>52.2</u>		<u>1.083</u>	
<u>12:20p</u>			<u>22.89</u>	<u>6.90</u>	<u>1599</u>		<u>53.0</u>		<u>1.083</u>	
<u>12:23p</u>			<u>22.94</u>	<u>6.91</u>	<u>1601</u>		<u>54.2</u>		<u>1.083</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: \_\_\_\_\_



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**



**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: \_\_\_\_\_ Date: 4-1-2014

Location: 96°59.280W, 28°31.716N Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: James Soderholtz Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tom Faltysek Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged from Well Head Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH 7-1500/PH 4-1460/PH 10.0-1625

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974  $\mu$ mhos

ORP Meter: YSI 556 MPS Field Calibration: 2500 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

		Check Solution	Field Reading
Temperature		<u>21 - 25</u>	<u>23.72</u>
pH		<u>6.8 - 7.2</u>	<u>7.00</u>
Conductivity		<u>7630 - 8010</u>	<u>7933</u>
ORP		<u>212 - 242</u>	<u>220.0</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>10:55am</u>			<u>22.40</u>	<u>6.01</u>	<u>2120</u>			<u>13.5</u>	<u>1.450</u>	
<u>10:58am</u>			<u>22.38</u>	<u>6.44</u>	<u>2125</u>			<u>-13.6</u>	<u>1.454</u>	
<u>11:01am</u>			<u>22.40</u>	<u>6.57</u>	<u>2127</u>			<u>-33.9</u>	<u>1.455</u>	
<u>11:04am</u>			<u>22.42</u>	<u>6.64</u>	<u>2128</u>			<u>-38.8</u>	<u>1.455</u>	
<u>11:07am</u>			<u>22.43</u>	<u>6.67</u>	<u>2127</u>			<u>-39.2</u>	<u>1.454</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
<u>10:51am</u>	<u>✓</u>	<u>G</u>	<u>6</u>	<u>N</u>	<u>Ice - other</u>	<u>pH</u> <u>Cond.</u> <u>TPH</u> <u>B-Tex</u>

Comments: Tom Faltysek 4-2-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

# B. Environmental Laboratory

## Chain Of Custody Record

Batch # \_\_\_\_\_  
THERM ID# 3

TEMP UN-C: 1.9  
TEMP Corr: 1.9

<b>Customer Information</b>		<b>Report Information</b>	
Name: <u>Tim Faltyssek</u>	Attention: <u>Tim Andruss</u>	Phone: <u>579 579-6863</u>	FAX: _____
Address: <u>UCGCD</u>	Project: <u>Water Quality McFadden</u>	EMAIL: _____	
Comments: _____		Requested Analysis	Completed By Laboratory

WQM-20140402-12

Sample Information			Matrix	Container			Preservative	PH	Concl	TPH	B. Tex	Custody Seats Present		
Collected By: <u>Tim Faltyssek</u>	Collected		DW - Drinking H2O S - Solid WW - Waste H2O SL - Sludge L - Liquid W - Water	TYPE	NUMBER	Size						Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Client / Field Sample ID	Date	Time	C = Composite G = Grab									Intact Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
WQM-20140401-01	4-1-14	9:30am	G	W	PC	6	V	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	+	+	+	+	
WQM-20140401-02	4-1-14	10:13am	G	W	PC	6	V	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	+	+	+	+	
WQM-20140401-03	4-1-14	10:23am	G	W	PC	6	V	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	+	+	+	+	
WQM-20140401-04	4-1-14	10:51am	G	W	PC	6	V	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	+	+	+	+	
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					

Required Turnaround:  Routine (6-10 days)  Expedite / Rush:  24 hrs  48 hrs  3 days  5 days  Other \_\_\_\_\_ REMARKS:

Surcharge will apply to RUSH TAT Authorized BY: \_\_\_\_\_ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: \_\_\_\_\_

Relinquished By: <u>Tim Faltyssek</u>	Date: <u>4-1-14</u>	Time: <u>12:56</u>	Received By: <u>[Signature]</u>	Date: <u>4-1-14</u>	Time: <u>12:56</u>
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

<b>GROUNDWATER MONITORING RECORD</b>		PAGE 1 of 1
State Well ID:	District Well ID: <u>DW-000101</u>	Date: <u>4-3-2014</u>
Location: <u>11041 FM 616</u>	Starting Water Level (ft. below BMP):	
Owner: <u>James Winne</u>	Casing Stickup (ft.):	
Measuring Point (MP) of Well: <u>2.05</u>	Starting Water Level (ft. BGL): <u>23.85</u>	
Casing Diameter (in ID):	Total Depth (ft. BGL):	
Sampled by: <u>Tim Faltys</u>	Casing Volume (gal.):	

**QUALITY ASSURANCE**

**METHODS (describe):**  
 Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox  
 Disposal of Discharged Water: N/A  
 Purging: Purged from faucet  
 Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS	Field Calibration: <u>PH7-1500/PH4-1460/PH10.0-1525</u>
Conductivity: YSI 556 MPS	Field Calibration: <u>6883 8,974 <math>\mu</math>mhos</u>
ORP Meter: YSI 556 MPS	Field Calibration: <u>7800 +229 mV</u>
DO Meter: YSI 556 MPS	Field Calibration (Optional):
Thermometer: YSI 556 MPS	Check: A check solution will be used to validate calibration.

		Check Solution	Field Reading
Other:	Temperature	<u>21-25</u>	<u>22.14</u>
	pH	<u>6.8-7.2</u>	<u>7.04</u>
	Conductivity	<u>7630-8010</u>	<u>79.5</u>
	ORP	<u>212-242</u>	<u>221.6</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>9:31am</u>	<u>59.145</u>	<u>209/m</u>	-	-	-	-	-	-	-	
<u>9:40am</u>			<u>25.45</u>	<u>7.70</u>	<u>2028</u>		<u>97.5</u>		<u>1.307</u>	
<u>9:43am</u>			<u>25.75</u>	<u>7.83</u>	<u>2038</u>		<u>-34.6</u>		<u>1.308</u>	
<u>9:46am</u>			<u>25.80</u>	<u>7.86</u>	<u>2046</u>		<u>-100.9</u>		<u>1.308</u>	
<u>9:49am</u>			<u>26.00</u>	<u>7.87</u>	<u>2051</u>		<u>-134.1</u>		<u>1.308</u>	
<u>9:52am</u>			<u>26.09</u>	<u>7.88</u>	<u>2055</u>		<u>-149.9</u>		<u>1.309</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments:  
Tim Faltys 4-7-2014



**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: BW-000102 Date: 4-3-2014

Location: 11041 PM616 Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: James Winny Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: 2.3 Starting Water Level (ft. BGL): 23.55

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltysel Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged from Well Head Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH1-1500/PH4-1460/PH100-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974 µmhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

		Check Solution	Field Reading
Temperature		<u>21 - 25</u>	<u>22.14</u>
pH		<u>6.8 - 7.22</u>	<u>7.04</u>
Conductivity		<u>7630 - 8010</u>	<u>7945</u>
ORP		<u>212 - 242</u>	<u>221.6</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>10:28A</u>			<u>23.34</u>	<u>6.82</u>	<u>1144</u>		<u>99.9</u>		<u>0.767</u>	
<u>10:31A</u>			<u>23.37</u>	<u>7.17</u>	<u>1140</u>		<u>24.8</u>		<u>0.765</u>	
<u>10:34A</u>			<u>23.37</u>	<u>7.20</u>	<u>1140</u>		<u>-6.6</u>		<u>0.765</u>	
<u>10:37A</u>			<u>23.37</u>	<u>7.22</u>	<u>1139</u>		<u>-21.9</u>		<u>0.764</u>	
<u>10:41A</u>			<u>23.37</u>	<u>7.23</u>	<u>1139</u>		<u>-33.2</u>		<u>0.764</u>	

**SAMPLE INVENTORY**

Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			

Comments: Jim Faltysel 4-7-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

**GROUNDWATER MONITORING RECORD**

State Well ID: \_\_\_\_\_ District Well ID: AW-000533 Date: 4-3-2014

Location: 645 Reppin Rd. Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Tim Faltyssek Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltyssek Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH10.0-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974  $\mu$ mhos

ORP Meter: YSI 556 MPS Field Calibration: 7600 1229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

Other:	Temperature	Check Solution	Field Reading
	pH	<u>6.8 - 7.2</u>	<u>7.04</u>
	Conductivity	<u>7630 - 8010</u>	<u>7945</u>
	ORP	<u>212 - 242</u>	<u>221.6</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>11:33a</u>	<u>59.112</u>	<u>2.679/min</u>	-	-	-	-	-	-	-	
<u>11:44am</u>			<u>23.54</u>	<u>6.48</u>	<u>1368</u>		<u>106.4</u>		<u>0.914</u>	
<u>11:47am</u>			<u>23.57</u>	<u>6.67</u>	<u>1365</u>		<u>23.0</u>		<u>0.912</u>	
<u>11:50am</u>			<u>23.55</u>	<u>6.95</u>	<u>1364</u>		<u>-52.7</u>		<u>0.912</u>	
<u>11:53am</u>			<u>23.55</u>	<u>6.99</u>	<u>1364</u>		<u>-63.5</u>		<u>0.912</u>	
<u>11:56am</u>			<u>23.54</u>	<u>7.02</u>	<u>1363</u>		<u>-68.9</u>		<u>0.911</u>	

**SAMPLE INVENTORY**

Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			

Comments:

Tim Faltyssek 4-7-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: **GW-000576** Date: **4-3-2014**

Location: **171 Post Oak Bend** Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: **Wallace Brown** Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: **Tim Faltyssek** Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: **N/A**

Purging: **Purged from faucet** Sampling: **N/N**

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: **PH7-1500/PH4-1460/PH10.0-1525**

Conductivity: YSI 556 MPS Field Calibration: **6883 8,974  $\mu$ mhos**

ORP Meter: YSI 556 MPS Field Calibration: **7880 t229 mV**

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

	Check Solution	Field Reading
Temperature	<b>21 - 25</b>	<b>22.14</b>
pH	<b>6.8 - 7.2</b>	<b>7.04</b>
Conductivity	<b>7630 - 8010</b>	<b>7945</b>
ORP	<b>212 - 242</b>	<b>221.6</b>

Other: \_\_\_\_\_

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<b>1:26 pm</b>	<b>59.22</b>	<b>13 g/m</b>								
<b>1:37 pm</b>			<b>23.71</b>	<b>6.41</b>	<b>727</b>		<b>119.8</b>		<b>0.485</b>	
<b>1:40 pm</b>			<b>23.71</b>	<b>6.67</b>	<b>726</b>		<b>88.6</b>		<b>0.484</b>	
<b>1:43 pm</b>			<b>23.71</b>	<b>6.70</b>	<b>728</b>		<b>76.9</b>		<b>0.485</b>	
<b>1:46 pm</b>			<b>23.71</b>	<b>6.73</b>	<b>729</b>		<b>67.9</b>		<b>0.486</b>	
<b>1:49 pm</b>			<b>23.72</b>	<b>6.75</b>	<b>731</b>		<b>60.9</b>		<b>0.487</b>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: **Tim Faltyssek 4-7-2014**



**al Laboratory**

**Chain Of Custody Record**

2713 Houston Hwy, Victoria, Texas 77901 Ph: (361) 572-8224

Batch #15589

TEMP UN-C: 12.7

Page 1 of 1

**Customer / Report Information**

**Billing Information**  Check box if Billing is the same as Report Information

THERM ID#3

TEMP Corr: 12.7

Name: VCGCD	Address: 2805 N. NAVARRO ST S+210 Victoria, Texas 77901	Phone: 361-572-6863	FAX:
Attention: Tim Faltyssek	Attention: Tim Anckuss	EMAIL: Tim.faltyssek@vcgcd.org	
Address: 2805 N. NAVARRO ST S+210 Victoria, Texas 77901	Project: Severe Dune	Requested Analysis	
Comments:		Completed By laboratory	

Sample Information				Matrix	Container				Preservative	Custody Seals Present				
Collected By:	Client / Field Sample ID	Collected		G = Grab S = Solid WW = Waste H2O SL = Sludge L = Liquid w = Water	TYPE	NUMBER	Size	H2SO4 H3PO4 ICE		HNO3 NaOH HCL	Yes	No	Intact	LAB Sample Number
		Date	Time						C-Composite					
WQS-20140318-01		3-18-14	12:33pm	G	L	P	3 250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X	S140771545
WQS-20140318-02		3-18-14	1:39pm	G	L	P	3 250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X	S140771547
WQS-20140318-03		3-18-14	2:39pm	G	L	P	3 250/ 500/ 2L	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input checked="" type="checkbox"/> ICE	<input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	X	X	X	X	S140771548
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL					

WQM-20140411-02

TDS, Sulfate, Br, Cl, Alk, Camg, K, Na, Iodide

Required Turnaround:  Routine (6-10 days) Expedite / Rush:  24 hrs  48 hrs  3 days  5 days  Other \_\_\_\_\_ REMARKS: Onice, pat taken

Surcharge will apply to RUSH TAT Authorized BY:				Container Type: P=Plastic, G=Glass, V=Voa, O=Other				Carrier ID:			
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:
<i>Tim Faltyssek</i>	3-18-14	3:40pm	<i>USO</i>	3-18-14	15:40						
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:	Received By:	Date:	Time:

WQM- 20140411-02

Batch # 15589

BatchNo: 15589

# SAMPLE REPORT



T104704328-14-8

### Business

VC GCD  
2805 N. Navarro Street  
Victoria TX 77901  
Att: Tim Faltysek



### Laboratory

B Environmental, LLC.  
2713 Houston Hwy.  
Victoria TX 77901  
ph. 361-572-8224

### Reference Information

Project: Serene Drive  
Printed: Wednesday,  
April 09, 2014

Re: VC GCD

Dear: Tim Faltysek

Attached are the results for sample(s) received on 3/18/2014

The analytical results relate only to the samples tested.  
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 17 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros  
Laboratory Director



B Environmental, LLC. 2713 Houston Hwy. Victoria TX 77901

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B Environmental, LLC.

BatchNo:

15589

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2713 Houston Hwy.

Victoria TX 77901

Batch No: 15589

# Sample Receipt Checklist

Date Received: 3/18/2014

Project: Serene Drive

Received By: Shimek

Login completed by: Shimek 3/18/2014

Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition?  YES  NO  Not Present
- Custody seals intact on shipping container/cooler?  YES  NO  Not Present
- Custody seals intact on sample bottles?  YES  NO  Not Present
- Chain of Custody present?  YES  NO
- Chain of Custody signed when relinquished and received  YES  NO
- Chain of Custody agrees with sample labels?  YES  NO
- Samples in proper container/bottles?  YES  NO
- Sample containers intact?  YES  NO
- Sufficient sample volume for indicated tests?  YES  NO
- All samples received within holding times?  YES  NO
- Container/Temp Blank - temperature in compliance?  YES  NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm?  YES  NO  No VOA Vials submitted
- Water - pH acceptable upon receipt?  YES  NO  Not Applicable

\*TEMP 12.7/12.7 pH Adjusted? no Checked By K Baros

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted Person Contacted

Contacted by: Date Contacted:

Regarding

Comments

On Ice, Just Taken, Therm #3, pH lot 1-145-8, Metals Preserved with HNO3 lot 1-153-1

Corrective Action



WQM- 20140411-02

WQS-20140318-01

Josue Puente

NW-000493

156 Serene Drive East

WQS-20140318-02

Jess Estrade

GW-000489

259 Serene Drive East

WQS-20140318-03

Rodney Howell

NW-000310

98 Serene Drive West

B Environmental, LLC.  
2713 Houston Hwy.  
Victoria TX 77901

BatchNo: 15692

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Sample Report Information



Sample ID:	S140831119	Client ID:	WQS20140321-04	Sampler:	Client
------------	------------	------------	----------------	----------	--------

Client: VCGCD  
Study: Water  
Project: Serene Drive  
Location: Msc.  
Notes:

Batch No: 15692  
Sampled: 3/21/2014 3:10 PM  
Type: Grab  
Matrix: Liquid

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Chloride, IC	736	mg/L	EPA 300		3/26/2014 9:15	1	1				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Alkalinity, Total	295	mg/L	SM 2320 B		3/26/2014 18:39						<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Bromide, IC	3.08	mg/L	EPA 300		3/25/2014 15:23						<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Calcium, ICP	211	mg/L	EPA 200.7/6010B		3/28/2014 14:40	0.2	0.2				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Iodide, IC	0.28	mg/L	EPA 300		4/1/2014 18:35						<input checked="" type="checkbox"/> T. America # T104704210-12-8
Magnesium, ICP	42	mg/L	EPA 200.7/6010B		3/28/2014 14:40	0.1	0.1				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Potassium, ICP	4.26	mg/L	EPA 200.7/6010B		3/28/2014 12:37	5	5				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Sodium, ICP	254	mg/L	EPA 200.7/6010B		3/28/2014 14:40	5	5				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Solids, Total Dissolved	2460	mg/L	SM 2540C		3/28/2014 10:05	10	10				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Sulfate, IC	66.2	mg/L	EPA 300		3/25/2014 15:23	1	1				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8



B Environmental, LLC.  
2713 Houston Hwy.

BatchNo:

15692

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Victoria TX 77901

## Sample Report Information



Sample ID:

S140831121

Client ID:

WQS20140321-05

Sampler:

Client

Client: VCGCD

Batch No: 15692

Study: Water

Sampled: 3/21/2014

3:15 PM

Project: Serene Drive

Location: Msc.

Type: Grab

Matrix: Liquid

Notes:

## Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Chloride, IC	738	mg/L	EPA 300		3/26/2014 9:30	1	1				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Alkalinity, Total	287	mg/L	SM 2320 B		3/26/2014 18:46						<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Bromide, IC	3.06	mg/L	EPA 300		3/25/2014 15:37						<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Calcium, ICP	208	mg/L	EPA 200.7/6010B		3/28/2014 14:46	0.2	0.2				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Iodide, IC	0.26	mg/L	EPA 300		4/3/2014 12:55						<input checked="" type="checkbox"/> T. America # T104704210-12-8
Magnesium, ICP	40.7	mg/L	EPA 200.7/6010B		3/28/2014 14:46	0.1	0.1				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Potassium, ICP	4.19	mg/L	EPA 200.7/6010B		3/28/2014 12:43	5	5				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Sodium, ICP	246	mg/L	EPA 200.7/6010B		3/28/2014 14:46	5	5				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Solids, Total Dissolved	2430	mg/L	SM 2540C		3/28/2014 10:05	10	10				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8
Sulfate, IC	66.1	mg/L	EPA 300		3/25/2014 15:37	1	1				<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8



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2713 Houston Hwy.

BatchNo: 15692

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Victoria TX 77901



### QA Summary Report

Parameter	ID	Result	Ref Value	Amt Added	LOQ	Qualifier	Control	Flag	Comments
-----------	----	--------	-----------	-----------	-----	-----------	---------	------	----------

#### Flag and Qualifier Legend

Negative - Result Detected	MDL = Method Detection Limit	DF = Dilution Factor
Caution - Problem Detected	LOQ = Limit of Quantitation	J = Analyte detected between MDL and LOQ
Warning - Null Value	S = surrogate standard out of limit	H = sample out of hold time

Wednesday, April 09, 2014

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



B Environmental, LLC.

2713 Houston Hwy.

Victoria TX 77901

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**DHL Analytical, Inc.**

Date: 01-Apr-14

CLIENT: B-Environmental  
Project: VC GCD  
Lab Order: 1403208

**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition, E300 and Standard Methods.

All method blanks, sample duplicates, laboratory spikes, and/or matrix spikes met quality assurance objectives except where noted in the following. For Metals analysis by method SW6020A the matrix spike and matrix spike duplicate recoveries were slightly above control limits for Calcium and/or Sodium. These are flagged accordingly in the enclosed QC summary report. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits for these analytes. No further corrective actions were taken.

For Anions analysis by method E300 the matrix spike and matrix spike duplicate recoveries were below control limits for Sulfate. These are flagged accordingly. The "S" flag denotes spike recovery was outside control limits. The LCS was within control limits for this analyte. No further corrective actions were taken.

Case Narrative

Client: B Environmental LLC  
Project/Site: B-Environmental

TestAmerica Job ID: 600-89307-1

Job ID: 600-89307-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative  
600-89307-1

Comments

No additional comments.

Receipt

The samples were received on 3/25/2014 9:32 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



WQM-

20140411-03

**DHL Analytical, Inc.**

Date: 01-Apr-14

CLIENT: B-Environmental  
 Project: VC GCD  
 Project No: Serene Drive (15692)  
 Lab Order: 1403208

Client Sample ID: WQS20140321-04  
 Lab ID: 1403208-01  
 Alternate ID: S140831119  
 Collection Date: 03/21/14 03:10 PM  
 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TRACE METALS: ICP-MS - WATER</b>		<b>SW6020A</b>		<b>Analyst: SW</b>			
Calcium	211	5.00	15.0		mg/L	50	03/28/14 02:40 PM
Magnesium	42.0	5.00	15.0		mg/L	50	03/28/14 02:40 PM
Potassium	4.26	0.100	0.300		mg/L	1	03/28/14 12:37 PM
Sodium	254	5.00	15.0		mg/L	50	03/28/14 02:40 PM
<b>ANIONS BY IC METHOD - WATER</b>		<b>E300</b>		<b>Analyst: DEW</b>			
Bromide	3.08	0.300	1.00		mg/L	1	03/25/14 03:23 PM
Chloride	736	30.0	100		mg/L	100	03/26/14 09:15 AM
Sulfate	66.2	1.00	3.00		mg/L	1	03/25/14 03:23 PM
<b>ALKALINITY</b>		<b>M2320 B</b>		<b>Analyst: LM</b>			
Alkalinity, Bicarbonate (As CaCO3)	295	12.5	25.0		mg/L @ pH 4.5	1	03/26/14 06:39 PM
Alkalinity, Carbonate (As CaCO3)	ND	12.5	25.0		mg/L @ pH 4.5	1	03/26/14 06:39 PM
Alkalinity, Hydroxide (As CaCO3)	ND	12.5	25.0		mg/L @ pH 4.5	1	03/26/14 06:39 PM
Alkalinity, Total (As CaCO3)	295	25.0	25.0		mg/L @ pH 4.5	1	03/26/14 06:39 PM
<b>TOTAL DISSOLVED SOLIDS</b>		<b>M2540C</b>		<b>Analyst: MK</b>			
Total Dissolved Solids (Residue, Filterable)	2460	50.0	50.0		mg/L	1	03/28/14 10:05 AM

**Qualifiers:**

- \* Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits



### Client Sample Results

Client: B Environmental LLC  
Project/Site: B-Environmental

TestAmerica Job ID: 600-89307-1

Client Sample ID: WQS-20140321-04

Lab Sample ID: 600-89307-1

Date Collected: 03/21/14 15:10

Matrix: Water

Date Received: 03/25/14 13:26

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Iodide	0.28		0.050		mg/L			04/01/14 18:35	1	

Client Sample ID: WQS-20140321-05

Lab Sample ID: 600-89307-2

Date Collected: 03/21/14 15:15

Matrix: Water

Date Received: 03/25/14 13:26

General Chemistry										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Iodide	0.26		0.050		mg/L			04/03/14 12:55	1	



**DHL Analytical, Inc.**

Date: 01-Apr-14

**CLIENT:** B-Environmental  
**Project:** VC GCD  
**Project No:** Serene Drive (15692)  
**Lab Order:** 1403208

**Client Sample ID:** WQS20140321-05  
**Lab ID:** 1403208-02  
**Alternate ID:** S140831121  
**Collection Date:** 03/21/14 03:15 PM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TRACE METALS: ICP-MS - WATER</b>		<b>SW6020A</b>		<b>Analyst: SW</b>			
Calcium	208	5.00	15.0		mg/L	50	03/28/14 02:46 PM
Magnesium	40.7	5.00	15.0		mg/L	50	03/28/14 02:46 PM
Potassium	4.19	0.100	0.300		mg/L	1	03/28/14 12:43 PM
Sodium	246	5.00	15.0		mg/L	50	03/28/14 02:46 PM
<b>ANIONS BY IC METHOD - WATER</b>		<b>E300</b>		<b>Analyst: DEW</b>			
Bromide	3.06	0.300	1.00		mg/L	1	03/25/14 03:37 PM
Chloride	738	30.0	100		mg/L	100	03/26/14 09:30 AM
Sulfate	66.1	1.00	3.00		mg/L	1	03/25/14 03:37 PM
<b>ALKALINITY</b>		<b>M2320 B</b>		<b>Analyst: LM</b>			
Alkalinity, Bicarbonate (As CaCO3)	287	12.5	25.0		mg/L @ pH 4.51	1	03/26/14 06:46 PM
Alkalinity, Carbonate (As CaCO3)	ND	12.5	25.0		mg/L @ pH 4.51	1	03/26/14 06:46 PM
Alkalinity, Hydroxide (As CaCO3)	ND	12.5	25.0		mg/L @ pH 4.51	1	03/26/14 06:46 PM
Alkalinity, Total (As CaCO3)	287	25.0	25.0		mg/L @ pH 4.51	1	03/26/14 06:46 PM
<b>TOTAL DISSOLVED SOLIDS</b>		<b>M2540C</b>		<b>Analyst: MK</b>			
Total Dissolved Solids (Residue, Filterable)	2430	50.0	50.0		mg/L	1	03/28/14 10:05 AM

**Qualifiers:**

- \* Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit

- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

WQM - 20140411-03

DHL Analytical, Inc.

Date: 01-Apr-14

CLIENT: B-Environmental  
 Work Order: 1403208  
 Project: VC GCD

**ANALYTICAL QC SUMMARY REPORT**

RunID: ICP-MS2\_140328A

The QC data in batch 62511 applies to the following samples: 1403208-01A, 1403208-02A

Sample ID	1403218-02B SD	Batch ID:	62511	TestNo:	SW6020A	Units:	mg/L
SampType:	SD	Run ID:	ICP-MS2_140328A	Analysis Date:	3/28/2014 12:54:00 PM	Prep Date:	3/26/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	50.6	15.0	0	51.6				1.94	10	
Sodium	67.7	15.0	0	67.9				0.295	10	

Sample ID	1403218-02B PDS	Batch ID:	62511	TestNo:	SW6020A	Units:	mg/L
SampType:	PDS	Run ID:	ICP-MS2_140328A	Analysis Date:	3/28/2014 1:41:00 PM	Prep Date:	3/26/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	100	3.00	50.0	51.6	97.6	80	120			
Sodium	120	3.00	50.0	67.9	105	80	120			

Qualifiers: B Analyte detected in the associated Method Blank  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 RL Reporting Limit  
 J Analyte detected between SDL and RL  
 DF Dilution Factor  
 MDL Method Detection Limit  
 R RPD outside accepted control limits  
 S Spike Recovery outside control limits  
 N Parameter not NELAC certified

CLIENT: B-Environmental  
 Work Order: 1403208  
 Project: VC GCD

### ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3\_140327A

The QC data in batch 62511 applies to the following samples: 1403208-01A, 1403208-02A

Sample ID	MB-62511	Batch ID:	62511	TestNo:	SW6020A	Units:	mg/L
SampType:	MBLK	Run ID:	ICP-MS3_140327A	Analysis Date:	3/27/2014 9:06:00 PM	Prep Date:	3/26/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	0.300								
Magnesium	ND	0.300								
Potassium	ND	0.300								
Sodium	ND	0.300								

Sample ID	LCS-62511	Batch ID:	62511	TestNo:	SW6020A	Units:	mg/L
SampType:	LCS	Run ID:	ICP-MS3_140327A	Analysis Date:	3/27/2014 9:30:00 PM	Prep Date:	3/26/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	5.44	0.300	5.00	0	109	80	120			
Magnesium	4.92	0.300	5.00	0	98.5	80	120			
Potassium	5.31	0.300	5.00	0	106	80	120			
Sodium	4.92	0.300	5.00	0	98.3	80	120			

Sample ID	LCSD-62511	Batch ID:	62511	TestNo:	SW6020A	Units:	mg/L
SampType:	LCSD	Run ID:	ICP-MS3_140327A	Analysis Date:	3/27/2014 9:36:00 PM	Prep Date:	3/26/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	5.46	0.300	5.00	0	109	80	120	0.385	15	
Magnesium	5.05	0.300	5.00	0	101	80	120	2.53	15	
Potassium	5.51	0.300	5.00	0	110	80	120	3.57	15	
Sodium	5.04	0.300	5.00	0	101	80	120	2.57	15	

Sample ID	1403218-02B SD	Batch ID:	62511	TestNo:	SW6020A	Units:	mg/L
SampType:	SD	Run ID:	ICP-MS3_140327A	Analysis Date:	3/27/2014 9:54:00 PM	Prep Date:	3/26/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	6.27	1.50	0	6.27				0.031	10	
Potassium	2.85	1.50	0	2.76				3.35	10	

Sample ID	1403218-02B PDS	Batch ID:	62511	TestNo:	SW6020A	Units:	mg/L
SampType:	PDS	Run ID:	ICP-MS3_140327A	Analysis Date:	3/27/2014 10:55:00 PM	Prep Date:	3/26/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Magnesium	10.4	0.300	5.00	6.27	83.4	80	120			
Potassium	7.49	0.300	5.00	2.76	94.7	80	120			

**Qualifiers:** B Analyte detected in the associated Method Blank  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 RL Reporting Limit  
 J Analyte detected between SDL and RL  
 DF Dilution Factor  
 MDL Method Detection Limit  
 R RPD outside accepted control limits  
 S Spike Recovery outside control limits  
 N Parameter not NELAC certified

CLIENT: B-Environmental  
Work Order: 1403208  
Project: VC GCD

### ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3\_140327A

Sample ID	1403218-02B MS	Batch ID:	62511	TestNo:	SW6020A	Units:	mg/L			
SampType:	MS	Run ID:	ICP-MS3_140327A	Analysis Date:	3/27/2014 11:01:00 PM	Prep Date:	3/26/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	60.4	0.300	5.00	54.2	122	80	120			S
Magnesium	11.3	0.300	5.00	6.27	100	80	120			
Potassium	8.12	0.300	5.00	2.76	107	80	120			
Sodium	74.5	0.300	5.00	68.4	122	80	120			S

Sample ID	1403218-02B MSD	Batch ID:	62511	TestNo:	SW6020A	Units:	mg/L			
SampType:	MSD	Run ID:	ICP-MS3_140327A	Analysis Date:	3/27/2014 11:07:00 PM	Prep Date:	3/26/2014			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Calcium	59.8	0.300	5.00	54.2	111	80	120	0.932	15	
Magnesium	11.1	0.300	5.00	6.27	96.2	80	120	1.79	15	
Potassium	7.86	0.300	5.00	2.76	102	80	120	3.26	15	
Sodium	74.6	0.300	5.00	68.4	123	80	120	0.093	15	S

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - J Analyte detected between MDL and RL
  - ND Not Detected at the Method Detection Limit
  - RL Reporting Limit
  - J Analyte detected between SDL and RL
  - DF Dilution Factor
  - MDL Method Detection Limit
  - R RPD outside accepted control limits
  - S Spike Recovery outside control limits
  - N Parameter not NELAC certified

**CLIENT:** B-Environmental  
**Work Order:** 1403208  
**Project:** VC GCD

**ANALYTICAL QC SUMMARY REPORT**

**RunID:** IC\_140325A

The QC data in batch 62493 applies to the following samples: 1403208-01B, 1403208-02B

Sample ID	<b>LCS-62493</b>	Batch ID:	<b>62493</b>	TestNo:	<b>E300</b>	Units:	<b>mg/L</b>			
SampType:	<b>LCS</b>	Run ID:	<b>IC_140325A</b>	Analysis Date:	<b>3/25/2014 12:25:32 PM</b>	Prep Date:	<b>3/25/2014</b>			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.3	1.00	20.00	0	96.3	90	110			
Chloride	9.35	1.00	10.00	0	93.5	90	110			
Sulfate	28.9	3.00	30.00	0	96.3	90	110			

Sample ID	<b>LCSD-62493</b>	Batch ID:	<b>62493</b>	TestNo:	<b>E300</b>	Units:	<b>mg/L</b>			
SampType:	<b>LCSD</b>	Run ID:	<b>IC_140325A</b>	Analysis Date:	<b>3/25/2014 12:40:09 PM</b>	Prep Date:	<b>3/25/2014</b>			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	19.4	1.00	20.00	0	97.0	90	110	0.692	20	
Chloride	9.42	1.00	10.00	0	94.2	90	110	0.734	20	
Sulfate	29.0	3.00	30.00	0	96.8	90	110	0.518	20	

Sample ID	<b>MB-62493</b>	Batch ID:	<b>62493</b>	TestNo:	<b>E300</b>	Units:	<b>mg/L</b>			
SampType:	<b>MBLK</b>	Run ID:	<b>IC_140325A</b>	Analysis Date:	<b>3/25/2014 12:54:45 PM</b>	Prep Date:	<b>3/25/2014</b>			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	1.00								
Chloride	ND	1.00								
Sulfate	ND	3.00								

Sample ID	<b>1403218-01CMS</b>	Batch ID:	<b>62493</b>	TestNo:	<b>E300</b>	Units:	<b>mg/L</b>			
SampType:	<b>MS</b>	Run ID:	<b>IC_140325A</b>	Analysis Date:	<b>3/25/2014 7:55:51 PM</b>	Prep Date:	<b>3/25/2014</b>			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	189	10.0	200.0	0	94.6	90	110			
Chloride	256	10.0	200.0	58.89	98.5	90	110			
Sulfate	247	30.0	200.0	59.08	93.7	90	110			

Sample ID	<b>1403218-01CMSD</b>	Batch ID:	<b>62493</b>	TestNo:	<b>E300</b>	Units:	<b>mg/L</b>			
SampType:	<b>MSD</b>	Run ID:	<b>IC_140325A</b>	Analysis Date:	<b>3/25/2014 8:10:27 PM</b>	Prep Date:	<b>3/25/2014</b>			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	202	10.0	200.0	0	101	90	110	6.65	20	
Chloride	274	10.0	200.0	58.89	107	90	110	6.67	20	
Sulfate	263	30.0	200.0	59.08	102	90	110	6.61	20	

Sample ID	<b>MB-140326</b>	Batch ID:	<b>62493</b>	TestNo:	<b>E300</b>	Units:	<b>mg/L</b>			
SampType:	<b>MBLK</b>	Run ID:	<b>IC_140325A</b>	Analysis Date:	<b>3/26/2014 9:01:10 AM</b>	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - J Analyte detected between MDL and RL
  - ND Not Detected at the Method Detection Limit
  - RL Reporting Limit
  - J Analyte detected between SDL and RL
  - DF Dilution Factor
  - MDL Method Detection Limit
  - R RPD outside accepted control limits
  - S Spike Recovery outside control limits
  - N Parameter not NELAC certified

CLIENT: B-Environmental  
Work Order: 1403208  
Project: VC GCD

### ANALYTICAL QC SUMMARY REPORT

RunID: IC\_140325A

Sample ID	MB-140326	Batch ID:	62493	TestNo:	E300	Units:	mg/L
SampType:	MBLK	Run ID:	IC_140325A	Analysis Date:	3/26/2014 9:01:10 AM	Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND	1.00				

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- J Analyte detected between SDL and RL

- DF Dilution Factor
- MDL Method Detection Limit
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- N Parameter not NELAC certified

**CLIENT:** B-Environmental  
**Work Order:** 1403208  
**Project:** VC GCD

**ANALYTICAL QC SUMMARY REPORT****RunID: TITRATOR\_140326B**

The QC data in batch 62519 applies to the following samples: 1403208-01B, 1403208-02B

Sample ID	<b>LCS-62519</b>	Batch ID:	<b>62519</b>	TestNo:	<b>M2320 B</b>	Units:	<b>mg/L @ pH 4.25</b>
SampType:	<b>LCS</b>	Run ID:	<b>TITRATOR_140326B</b>	Analysis Date:	<b>3/26/2014 4:59:00 PM</b>	Prep Date:	<b>3/26/2014</b>
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual

Alkalinity, Total (As CaCO3)	53.6	20.0	50.00	0	107	74	129
------------------------------	------	------	-------	---	-----	----	-----

Sample ID	<b>MB-62519</b>	Batch ID:	<b>62519</b>	TestNo:	<b>M2320 B</b>	Units:	<b>mg/L @ pH 4.41</b>
SampType:	<b>MBLK</b>	Run ID:	<b>TITRATOR_140326B</b>	Analysis Date:	<b>3/26/2014 5:00:00 PM</b>	Prep Date:	<b>3/26/2014</b>
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3)	ND	20.0
Alkalinity, Carbonate (As CaCO3)	ND	20.0
Alkalinity, Hydroxide (As CaCO3)	ND	20.0
Alkalinity, Total (As CaCO3)	ND	20.0

Sample ID	<b>1403226-07C DUP</b>	Batch ID:	<b>62519</b>	TestNo:	<b>M2320 B</b>	Units:	<b>mg/L @ pH 4.11</b>
SampType:	<b>DUP</b>	Run ID:	<b>TITRATOR_140326B</b>	Analysis Date:	<b>3/26/2014 5:18:00 PM</b>	Prep Date:	<b>3/26/2014</b>
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3)	0	25.0	0	0	0	0	20
Alkalinity, Carbonate (As CaCO3)	0	25.0	0	0	0	0	20
Alkalinity, Hydroxide (As CaCO3)	0	25.0	0	0	0	0	20
Alkalinity, Total (As CaCO3)	0	25.0	0	0	0	0	20

Sample ID	<b>1403227-03B DUP</b>	Batch ID:	<b>62519</b>	TestNo:	<b>M2320 B</b>	Units:	<b>mg/L @ pH 4.51</b>
SampType:	<b>DUP</b>	Run ID:	<b>TITRATOR_140326B</b>	Analysis Date:	<b>3/26/2014 5:53:00 PM</b>	Prep Date:	<b>3/26/2014</b>
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit HighLimit %RPD RPDLimit Qual

Alkalinity, Bicarbonate (As CaCO3)	304	25.0	0	303.4		0.362	20
Alkalinity, Carbonate (As CaCO3)	0	25.0	0	0		0	20
Alkalinity, Hydroxide (As CaCO3)	0	25.0	0	0		0	20
Alkalinity, Total (As CaCO3)	304	25.0	0	303.4		0.362	20

**Qualifiers:** B Analyte detected in the associated Method Blank  
 J Analyte detected between MDL and RL  
 ND Not Detected at the Method Detection Limit  
 RL Reporting Limit  
 J Analyte detected between SDL and RL

DF Dilution Factor  
 MDL Method Detection Limit  
 R RPD outside accepted control limits  
 S Spike Recovery outside control limits  
 N Parameter not NELAC certified



**CLIENT:** B-Environmental  
**Work Order:** 1403208  
**Project:** VC GCD

**ANALYTICAL QC SUMMARY REPORT**

**RunID:** WC\_140327D

The QC data in batch 62504 applies to the following samples: 1403208-01B, 1403208-02B

Sample ID <b>MB-62504</b>	Batch ID: <b>62504</b>	TestNo: <b>M2540C</b>	Units: <b>mg/L</b>							
SampType: <b>MBLK</b>	Run ID: <b>WC_140327D</b>	Analysis Date: <b>3/28/2014 10:05:00 AM</b>	Prep Date: <b>3/27/2014</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filtera ND 10.0

Sample ID <b>LCS-62504</b>	Batch ID: <b>62504</b>	TestNo: <b>M2540C</b>	Units: <b>mg/L</b>							
SampType: <b>LCS</b>	Run ID: <b>WC_140327D</b>	Analysis Date: <b>3/28/2014 10:05:00 AM</b>	Prep Date: <b>3/27/2014</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filtera 744 10.0 745.6 0 99.8 90 113

Sample ID <b>1403208-01B-DUP</b>	Batch ID: <b>62504</b>	TestNo: <b>M2540C</b>	Units: <b>mg/L</b>							
SampType: <b>DUP</b>	Run ID: <b>WC_140327D</b>	Analysis Date: <b>3/28/2014 10:05:00 AM</b>	Prep Date: <b>3/27/2014</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filtera 2450 50.0 0 2460 0.407 5

Sample ID <b>1403227-07B-DUP</b>	Batch ID: <b>62504</b>	TestNo: <b>M2540C</b>	Units: <b>mg/L</b>							
SampType: <b>DUP</b>	Run ID: <b>WC_140327D</b>	Analysis Date: <b>3/28/2014 10:05:00 AM</b>	Prep Date: <b>3/27/2014</b>							
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Total Dissolved Solids (Residue, Filtera 2720 50.0 0 2715 0.368 5

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - J Analyte detected between MDL and RL
  - ND Not Detected at the Method Detection Limit
  - RL Reporting Limit
  - J Analyte detected between SDL and RL
  - DF Dilution Factor
  - MDL Method Detection Limit
  - R RPD outside accepted control limits
  - S Spike Recovery outside control limits
  - N Parameter not NELAC certified

QC Sample Results

Client: B Environmental LLC  
 Project/Site: B-Environmental

TestAmerica Job ID: 600-89307-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-114160/9  
 Matrix: Water  
 Analysis Batch: 114160

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		0.050		mg/L			04/01/14 18:04	1

Lab Sample ID: LCS 160-114160/10  
 Matrix: Water  
 Analysis Batch: 114160

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	0.500	0.499		mg/L		100	90 - 110

Lab Sample ID: 600-89307-1 MS  
 Matrix: Water  
 Analysis Batch: 114160

Client Sample ID: WQS-20140321-04  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	0.28		0.500	0.799		mg/L		104	90 - 110

Lab Sample ID: 600-89307-1 MSD  
 Matrix: Water  
 Analysis Batch: 114160

Client Sample ID: WQS-20140321-04  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iodide	0.28		0.500	0.798		mg/L		104	90 - 110	0	20

Lab Sample ID: MB 160-114412/9  
 Matrix: Water  
 Analysis Batch: 114412

Client Sample ID: Method Blank  
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		0.050		mg/L			04/03/14 12:26	1

Lab Sample ID: LCS 160-114412/10  
 Matrix: Water  
 Analysis Batch: 114412

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	0.500	0.500		mg/L		100	90 - 110

Lab Sample ID: 600-89307-2 MS  
 Matrix: Water  
 Analysis Batch: 114412

Client Sample ID: WQS-20140321-05  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	0.26		0.500	0.778		mg/L		103	90 - 110

Lab Sample ID: 600-89307-2 MSD  
 Matrix: Water  
 Analysis Batch: 114412

Client Sample ID: WQS-20140321-05  
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iodide	0.26		0.500	0.776		mg/L		103	90 - 110	0	20

TestAmerica Houston



# B Environmental Laboratory Chain Of Custody Record

Batch # 15692

TEMP UN-C: 1.9

THERM ID# 3

TEMP Corr: 1.9

<b>Customer Information</b>		<b>Report Information</b>	
Name: <i>Tim Faltysch</i>	Attention: <i>Tim Andrews</i>	Phone:	FAX:
Address: <i>28 UGGCD</i>	Project: <i>Serenade Drive</i>	EMAIL:	
		Requested Analysis	Completed By Laboratory

Sample Information			Matrix	Container			Preservative	Custody Seals Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Intact Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> LAB Sample Number		
Collected By: <i>Jeni Faltysch</i>	Collected		DW - Drinking H2O S - Solid WW - Waste H2O SL - Sludge L - Liquid w - Water	TYPE	NUMBER	Size				
Client / Field Sample ID	Date	Time								
<i>WQS20140321-04</i>	<i>3-21-14</i>	<i>3:10pm</i>	<i>G</i>	<i>L</i>	<i>P</i>	<i>3</i>	<i>2L / 500 / 250</i>	<input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input checked="" type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____	<i>x x x x</i>	<i>S140831119</i>
<i>WQS20140321-05</i>	<i>3-21-14</i>	<i>3:15pm</i>	<i>G</i>	<i>L</i>	<i>P</i>	<i>3</i>	<i>2L / 500 / 250</i>	<input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input checked="" type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____	<i>y x x x</i>	<i>S140831121</i>
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____		
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____		
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____		
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____		

*Iodide  
Ca, Mg, Na, K  
TDS, sulfate,  
Br, Cl, Alk*

WQM - 20140411-03

Required Turnaround:  Routine (6-10 days)  Expedite / Rush:  24 hrs  48 hrs  3 days  5 days  Other \_\_\_\_\_ REMARKS: *vs*

Surcharge will apply to RUSH TAT Authorized BY: \_\_\_\_\_ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: \_\_\_\_\_

Relinquished By: <i>Jeni Faltysch</i>	Date: <i>3-24-14</i>	Time: <i>11:11</i>	Received By: <i>USC</i>	Date: <i>3-24-14</i>	Time: <i>11:11</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

wqm- 20140411-03

Batch # 15692

BatchNo: 15692

# SAMPLE REPORT



T104704328-14-8

**Business**

VCGCD  
2805 N. Navarro  
Victoria

wqm- u - - - -

TX 77901

Att: Tim Faltysek

**Laboratory**



B Environmental, LLC.  
2713 Houston Hwy.  
Victoria TX 77901  
ph. 361-572-8224

**Reference Information**

Project: Serene Drive  
Printed: Wednesday,  
April 09, 2014

Re: VCGCD

Dear: Tim Faltysek

Attached are the results for sample(s) received on 3/24/2014

The analytical results relate only to the samples tested.

All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 19 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director



B Environmental, LLC. 2713 Houston Hwy. Victoria TX 77901

This report shall not be reproduced except in full, without written approval of the laboratory

B Environmental, LLC.  
2713 Houston Hwy.

BatchNo: 15692

Page 2 of 19

Victoria TX 77901

Batch No: 15692

### Sample Receipt Checklist

Date Received: 3/24/2014

Project: Serene Drive

Serene Drive

Received By: Shimek

Login completed by:

Shimek 3/24/2014

Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition?  YES  NO  Not Present
- Custody seals intact on shipping container/cooler?  YES  NO  Not Present
- Custody seals intact on sample bottles?  YES  NO  Not Present
- Chain of Custody present?  YES  NO
- Chain of Custody signed when relinquished and received  YES  NO
- Chain of Custody agrees with sample labels?  YES  NO
- Samples in proper container/bottles?  YES  NO
- Sample containers intact?  YES  NO
- Sufficient sample volume for indicated tests?  YES  NO
- All samples received within holding times?  YES  NO
- Container/Temp Blank - temperature in compliance?  YES  NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm?  YES  NO  No VOA Vials submitted
- Water - pH acceptable upon receipt?  YES  NO  Not Applicable

\*TEMP 1.9/1.9 pH Adjusted? no Checked By K Baros

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted

Contacted by: Date Contacted:

Regarding

Comments

On Ice, Therm #3, pH lot 1-145-8, Metals Preserved with HNO3 lot 1-153-1

Corrective Action



WQM- 20140411-03

WAS-20140321-04 & 05

Noel Olquin

NW-000444

3551 Fm 616

DATE: 5 / 6 / 2013

STATE WELL NUMBER 7907703

OWNER: Freddie Heindl

COUNTY: Victoria *GW-000599*

AQUIFER: GULF COAST AQUIFER

RELIABILITY REMARKS: Sampled using TWDB protocols

COLLECTING ENTITY: Texas Water Development Board and Predecessor Agencies

LAB: LCRA - Lower Colorado River Authority

COLLECTION REMARKS:

Asterisk (\*) next to value indicates that the constituent exceeds TCEQ standards (MCL) for drinking water.

Calcium	144 mg/L	Carbonate *	0 mg/L	Dissolved Solids	612 mg/L
Magnesium	6.86 mg/L	Bicarbonate *	333.15 mg/L	Hardness as CaCO3	388 mg/L
Sodium	58.4 mg/L	Sulfate	21.7 mg/L	SAR	1.29 *
Potassium	2.13 mg/L	Chloride	160 mg/L	Conductivity	820 uS *
Strontium *	0.2 mg/L	Fluoride *	0.17 mg/L	pH	6.37
Silica *	39.4 mg/L	Nitrate as NO <sub>3</sub> *	15.54 mg/L	Temperature	24°C

DESCRIPTION	FLAG	VALUE	+/-
ALKALINITY, FIELD, DISSOLVED AS CaCO3		296	
ALPHA, DISSOLVED (PCL)	<	3	1.28
ALUMINUM, DISSOLVED (UG/L AS AL)	<	4.0	
ANTIMONY, DISSOLVED (UG/L AS SB)	<	1.0	
ARSENIC, DISSOLVED (UG/L AS AS)		4.7	
BARIUM, DISSOLVED (UG/L AS BA)		271	
BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1.0	
BORON, DISSOLVED (UG/L AS B)		119	
BROMIDE, DISSOLVED, (MG/L AS BR)		0.67	
CADMIUM, DISSOLVED (UG/L AS CD)	<	1.0	
CHROMIUM, DISSOLVED (UG/L AS CR)		13.2	
COBALT, DISSOLVED (UG/L AS CO)	<	1.0	
COPPER, DISSOLVED (UG/L AS CU)		3.2	
IRON, DISSOLVED (UG/L AS FE)	<	50	
LEAD, DISSOLVED (UG/L AS PB)	<	1.0	
LITHIUM, DISSOLVED (UG/L AS LI)		12.6	
MANGANESE, DISSOLVED (UG/L AS MN)	<	1.0	
MOLYBDENUM, DISSOLVED, UG/L	<	1.0	
NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		3.51	
PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.020	

WQM- 20140414-01

DATE: 5 / 6 / 2013

STATE WELL NUMBER 7907703

---

DESCRIPTION	FLAG	VALUE	+/-
RADIUM 226, DISSOLVED, PC/L	<	1	0.1
RADIUM 228, DISSOLVED (PC/L AS RA-228)	<	1	0.51
SELENIUM, DISSOLVED (UG/L AS SE)		8.5	
SILVER, DISSOLVED (UG/L AS AG)		2.7	
STRONTIUM, DISSOLVED (UG/L AS SR)		202	
TEMPERATURE, WATER (CELSIUS)		23.7	
THALLIUM, DISSOLVED (UG/L AS TL)	<	1.0	
URANIUM, NATURAL, DISSOLVED, UG/L	<	1.0	
VANADIUM, DISSOLVED (UG/L AS V)		8.4	
ZINC, DISSOLVED (UG/L AS ZN)	<	4.0	



DATE: 5 / 7 / 2013

STATE WELL NUMBER 7908402

JW-000598

OWNER: Bill Kyle  
14555 US Hwy 87

COUNTY: Victoria

AQUIFER: GULF COAST AQUIFER

RELIABILITY REMARKS: Sampled using TWDB protocols

COLLECTING ENTITY: Texas Water Development Board and Predecessor Agencies

LAB: LCRA - Lower Colorado River Authority

COLLECTION REMARKS:

Asterisk (\*) next to value indicates that the constituent exceeds TCEQ standards (MCL) for drinking water.

Calcium	70.7 mg/L	Carbonate *	0 mg/L	Dissolved Solids	396 mg/L
Magnesium	10.7 mg/L	Bicarbonate *	314.84 mg/L	Hardness as CaCO3	221 mg/L *
Sodium	53.2 mg/L	Sulfate	< 1 mg/L	SAR	1.55 *
Potassium	2.37 mg/L	Chloride	77 mg/L	Conductivity	585 uS *
Strontium *	0.51 mg/L	Fluoride *	0.21 mg/L	pH	6.91
Silica *	26.3 mg/L	Nitrate as NO <sub>3</sub> *	< 0.02 mg/L	Temperature	22°C

DESCRIPTION	FLAG	VALUE	+/-
ALKALINITY, FIELD, DISSOLVED AS CaCO3		264	
ALPHA, DISSOLVED (PC/L)	<	3	3.07
ALUMINUM, DISSOLVED (UG/L AS AL)	<	4.0	
ANTIMONY, DISSOLVED (UG/L AS SB)	<	1.0	
ARSENIC, DISSOLVED (UG/L AS AS)	<	2.0	
BARIUM, DISSOLVED (UG/L AS BA)		733	
BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1.0	
BORON, DISSOLVED (UG/L AS B)		69	
BROMIDE, DISSOLVED, (MG/L AS BR)		0.26	
CADMIUM, DISSOLVED (UG/L AS CD)	<	1.0	
CHROMIUM, DISSOLVED (UG/L AS CR)		11.3	
COBALT, DISSOLVED (UG/L AS CO)	<	1.0	
COPPER, DISSOLVED (UG/L AS CU)		1.3	
IRON, DISSOLVED (UG/L AS FE)		746 *	
LEAD, DISSOLVED (UG/L AS PB)	<	1.0	
LITHIUM, DISSOLVED (UG/L AS LI)		19.8	
MANGANESE, DISSOLVED (UG/L AS MN)		59.6 *	
MOLYBDENUM, DISSOLVED, UG/L	<	1.0	
NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)	<	0.020	
PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.020	

DATE: 5 / 7 / 2013

STATE WELL NUMBER 7908402

DESCRIPTION	FLAG	VALUE	+/-
RADIUM 226, DISSOLVED, PC/L		0.4	0.28
RADIUM 228, DISSOLVED (PC/L AS RA-228)		2.74	0.66
SELENIUM, DISSOLVED (UG/L AS SE)	<	4.0	
SILVER, DISSOLVED (UG/L AS AG)	<	1.0	
STRONTIUM, DISSOLVED (UG/L AS SR)		508	
TEMPERATURE, WATER (CELSIUS)		22.4	
THALLIUM, DISSOLVED (UG/L AS TL)	<	1.0	
URANIUM, NATURAL, DISSOLVED, UG/L	<	1.0	
VANADIUM, DISSOLVED (UG/L AS V)		3.1	
ZINC, DISSOLVED (UG/L AS ZN)		4.2	

DATE: 5 / 7 / 2013

STATE WELL NUMBER 7908402

JW-000598

OWNER: Bill Kyle  
14555 US Hwy 87

COUNTY: Victoria

AQUIFER: GULF COAST AQUIFER

RELIABILITY REMARKS: Sampled using TWDB protocols

COLLECTING ENTITY: Texas Water Development Board and Predecessor Agencies

LAB: LCRA - Lower Colorado River Authority

COLLECTION REMARKS:

Asterisk (\*) next to value indicates that the constituent exceeds TCEQ standards (MCL) for drinking water.

Calcium	70.7 mg/L	Carbonate *	0 mg/L	Dissolved Solids	396 mg/L
Magnesium	10.7 mg/L	Bicarbonate *	314.84 mg/L	Hardness as CaCO3	221 mg/L *
Sodium	53.2 mg/L	Sulfate	< 1 mg/L	SAR	1.55 *
Potassium	2.37 mg/L	Chloride	77 mg/L	Conductivity	585 uS *
Strontium *	0.51 mg/L	Fluoride *	0.21 mg/L	pH	6.91
Silica *	26.3 mg/L	Nitrate as NO <sub>3</sub> *	< 0.02 mg/L	Temperature	22°C

DESCRIPTION	FLAG	VALUE	+/-
ALKALINITY, FIELD, DISSOLVED AS CaCO3		264	
ALPHA, DISSOLVED (PC/L)	<	3	3.07
ALUMINUM, DISSOLVED (UG/L AS AL)	<	4.0	
ANTIMONY, DISSOLVED (UG/L AS SB)	<	1.0	
ARSENIC, DISSOLVED (UG/L AS AS)	<	2.0	
BARIUM, DISSOLVED (UG/L AS BA)		733	
BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1.0	
BORON, DISSOLVED (UG/L AS B)		69	
BROMIDE, DISSOLVED, (MG/L AS BR)		0.26	
CADMIUM, DISSOLVED (UG/L AS CD)	<	1.0	
CHROMIUM, DISSOLVED (UG/L AS CR)		11.3	
COBALT, DISSOLVED (UG/L AS CO)	<	1.0	
COPPER, DISSOLVED (UG/L AS CU)		1.3	
IRON, DISSOLVED (UG/L AS FE)		746 *	
LEAD, DISSOLVED (UG/L AS PB)	<	1.0	
LITHIUM, DISSOLVED (UG/L AS LI)		19.8	
MANGANESE, DISSOLVED (UG/L AS MN)		59.6 *	
MOLYBDENUM, DISSOLVED, UG/L	<	1.0	
NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)	<	0.020	
PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.020	

DATE: 5 / 7 / 2013

STATE WELL NUMBER 7908402

DESCRIPTION	FLAG	VALUE	+/-
RADIUM 226, DISSOLVED, PC/L		0.4	0.28
RADIUM 228, DISSOLVED (PC/L AS RA-228)		2.74	0.66
SELENIUM, DISSOLVED (UG/L AS SE)	<	4.0	
SILVER, DISSOLVED (UG/L AS AG)	<	1.0	
STRONTIUM, DISSOLVED (UG/L AS SR)		508	
TEMPERATURE, WATER (CELSIUS)		22.4	
THALLIUM, DISSOLVED (UG/L AS TL)	<	1.0	
URANIUM, NATURAL, DISSOLVED, UG/L	<	1.0	
VANADIUM, DISSOLVED (UG/L AS V)		3.1	
ZINC, DISSOLVED (UG/L AS ZN)		4.2	

DATE: 5 / 7 / 2013

STATE WELL NUMBER 7908503

OWNER: Russell Ham

COUNTY: Victoria

GW-000600

AQUIFER: GOLIAD SAND

RELIABILITY REMARKS: Sampled using TWDB protocols

COLLECTING ENTITY: Texas Water Development Board and Predecessor Agencies

LAB: LCRA - Lower Colorado River Authority

COLLECTION REMARKS:

Asterisk (\*) next to value indicates that the constituent exceeds TCEQ standards (MCL) for drinking water.

Calcium	92.8 mg/L	Carbonate	0 mg/L	Dissolved Solids	406 mg/L
Magnesium	6.12 mg/L	Bicarbonate	277.01 mg/L	Hardness as CaCO3	257 mg/L
Sodium	33.5 mg/L	Sulfate	16.9 mg/L	SAR	0.9
Potassium	0.89 mg/L	Chloride	77 mg/L	Conductivity	570 uS
Strontium	0.15 mg/L	Fluoride	0.25 mg/L	pH	6.7
Silica	41.6 mg/L	Nitrate as NO <sub>3</sub>	0.46 mg/L	Temperature	25°C

DESCRIPTION	FLAG	VALUE	+/-
ALKALINITY, FIELD, DISSOLVED AS CaCO3		240	
ALPHA, DISSOLVED (PCL)	<	3	3.43
ALUMINUM, DISSOLVED (UG/L AS AL)	<	4.0	
ANTIMONY, DISSOLVED (UG/L AS SB)	<	1.0	
ARSENIC, DISSOLVED (UG/L AS AS)		10.8	*
BARIUM, DISSOLVED (UG/L AS BA)		564	
BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1.0	
BORON, DISSOLVED (UG/L AS B)		63	
BROMIDE, DISSOLVED, (MG/L AS BR)		0.25	
CADMIUM, DISSOLVED (UG/L AS CD)	<	1.0	
CHROMIUM, DISSOLVED (UG/L AS CR)		11.0	
COBALT, DISSOLVED (UG/L AS CO)	<	1.0	
COPPER, DISSOLVED (UG/L AS CU)		6.5	
IRON, DISSOLVED (UG/L AS FE)	<	50	
LEAD, DISSOLVED (UG/L AS PB)		3.7	*
LITHIUM, DISSOLVED (UG/L AS LI)		8.1	
MANGANESE, DISSOLVED (UG/L AS MN)		131	*
MOLYBDENUM, DISSOLVED, UG/L	<	1.0	
NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		0.104	
PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.020	

DATE: 5 / 7 / 2013

STATE WELL NUMBER 7908503

DESCRIPTION	FLAG	VALUE	+/-
RADIUM 226, DISSOLVED, PC/L		0.32	0.26
RADIUM 228, DISSOLVED (PC/L AS RA-228)	<	1	0.56
SELENIUM, DISSOLVED (UG/L AS SE)	<	4.0	
SILVER, DISSOLVED (UG/L AS AG)	<	1.0	
STRONTIUM, DISSOLVED (UG/L AS SR)		151	
TEMPERATURE, WATER (CELSIUS)		24.5	
THALLIUM, DISSOLVED (UG/L AS TL)	<	1.0	
URANIUM, NATURAL, DISSOLVED, UG/L	<	1.0	
VANADIUM, DISSOLVED (UG/L AS V)		10.1	
ZINC, DISSOLVED (UG/L AS ZN)		4.1	

DATE: 5 / 7 / 2013

STATE WELL NUMBER 7916602

DW-000011

OWNER: City of Victoria

COUNTY: Victoria

AQUIFER: GULF COAST AQUIFER

RELIABILITY REMARKS: Sampled using TWDB protocols

COLLECTING ENTITY: Texas Water Development Board and Predecessor Agencies

LAB: LCRA - Lower Colorado River Authority

COLLECTION REMARKS:

Asterisk (\*) next to value indicates that the constituent exceeds TCEQ standards (MCL) for drinking water.

Calcium	32.6 mg/L	Carbonate	0 mg/L	Dissolved Solids	452 mg/L
Magnesium	8.87 mg/L	Bicarbonate	342.91 mg/L	Hardness as CaCO3	119 mg/L
Sodium	119 mg/L	Sulfate	< 1 mg/L	SAR	4.76
Potassium	1.65 mg/L	Chloride	95.5 mg/L	Conductivity	668 uS
Strontium	0.55 mg/L	Fluoride	0.4 mg/L	pH	7.27 *
Silica	24.8 mg/L	Nitrate as NO <sub>3</sub>	< 0.02 mg/L	Temperature	25°C

DESCRIPTION	FLAG	VALUE	+/-
ALKALINITY, FIELD, DISSOLVED AS CaCO3		288	
ALPHA, DISSOLVED (PC/L)	<	3	2.68
ALUMINUM, DISSOLVED (UG/L AS AL)	<	4.0	
ANTIMONY, DISSOLVED (UG/L AS SB)	<	1.0	
ARSENIC, DISSOLVED (UG/L AS AS)		12.8	*
BARIUM, DISSOLVED (UG/L AS BA)		1670	
BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1.0	
BORON, DISSOLVED (UG/L AS B)		261	
BROMIDE, DISSOLVED, (MG/L AS BR)		0.38	
CADMIUM, DISSOLVED (UG/L AS CD)	<	1.0	
CHROMIUM, DISSOLVED (UG/L AS CR)		11.7	
COBALT, DISSOLVED (UG/L AS CO)	<	1.0	
COPPER, DISSOLVED (UG/L AS CU)		1.6	
IRON, DISSOLVED (UG/L AS FE)		666	*
LEAD, DISSOLVED (UG/L AS PB)	<	1.0	
LITHIUM, DISSOLVED (UG/L AS LI)		24.6	
MANGANESE, DISSOLVED (UG/L AS MN)		115	*
MOLYBDENUM, DISSOLVED, UG/L		2.2	
NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)	<	0.020	
PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.020	

DATE: 5 / 7 / 2013

STATE WELL NUMBER 7916602

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DESCRIPTION	FLAG	VALUE	+/-
RADIUM 226, DISSOLVED, PC/L		0.76	0.32
RADIUM 228, DISSOLVED (PC/L AS RA-228)		0.98	0.37
SELENIUM, DISSOLVED (UG/L AS SE)	<	4.0	
SILVER, DISSOLVED (UG/L AS AG)	<	1.0	
STRONTIUM, DISSOLVED (UG/L AS SR)		553	
TEMPERATURE, WATER (CELSIUS)		24.5	
THALLIUM, DISSOLVED (UG/L AS TL)	<	1.0	
URANIUM, NATURAL, DISSOLVED, UG/L	<	1.0	
VANADIUM, DISSOLVED (UG/L AS V)		3.1	
ZINC, DISSOLVED (UG/L AS ZN)		5.3	



DATE: 5 / 6 / 2013

STATE WELL NUMBER 7916702

OWNER: Quail Creek MUD  
Well #1

COUNTY: Victoria

GW-000601

AQUIFER: LISSIE FORMATION AND GOLIAD SAND

RELIABILITY REMARKS: Sampled using TWDB protocols

COLLECTING ENTITY: Texas Water Development Board and Predecessor Agencies

LAB: LCRA - Lower Colorado River Authority

COLLECTION REMARKS:

Asterisk (\*) next to value indicates that the constituent exceeds TCEQ standards (MCL) for drinking water.

Calcium	21.3 mg/L	Carbonate	0 mg/L	Dissolved Solids	523 mg/L
Magnesium	10.4 mg/L	Bicarbonate	390.51 mg/L	Hardness as CaCO <sub>3</sub>	97 mg/L
Sodium	158 mg/L	Sulfate	1.51 mg/L	SAR	7.01
Potassium	2.44 mg/L	Chloride	118 mg/L	Conductivity	730 uS
Strontium	1.12 mg/L	Fluoride	0.59 mg/L	pH	7.26 *
Silica	17.4 mg/L	Nitrate as NO <sub>3</sub>	< 0.02 mg/L	Temperature	25°C

DESCRIPTION	FLAG	VALUE	+/-
ALKALINITY, FIELD, DISSOLVED AS CaCO <sub>3</sub>		315	
ALPHA, DISSOLVED (PCL)		3.52	2.75
ALUMINUM, DISSOLVED (UG/L AS AL)	<	4.0	
ANTIMONY, DISSOLVED (UG/L AS SB)	<	1.0	
ARSENIC, DISSOLVED (UG/L AS AS)		8.5	
BARIUM, DISSOLVED (UG/L AS BA)		853	
BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1.0	
BORON, DISSOLVED (UG/L AS B)		469	
BROMIDE, DISSOLVED, (MG/L AS BR)		0.47	
CADMIUM, DISSOLVED (UG/L AS CD)	<	1.0	
CHROMIUM, DISSOLVED (UG/L AS CR)		14.1	
COBALT, DISSOLVED (UG/L AS CO)	<	1.0	
COPPER, DISSOLVED (UG/L AS CU)		2.1	
IRON, DISSOLVED (UG/L AS FE)		350	*
LEAD, DISSOLVED (UG/L AS PB)	<	1.0	
LITHIUM, DISSOLVED (UG/L AS LI)		43.5	
MANGANESE, DISSOLVED (UG/L AS MN)		15.3	
MOLYBDENUM, DISSOLVED, UG/L		5.0	
NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)	<	0.020	
PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.020	

WQM - 20140414 - 05

DATE: 5 / 6 / 2013

STATE WELL NUMBER 7916702

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DESCRIPTION	FLAG	VALUE	+/-
RADIUM 226, DISSOLVED, PC/L		0.09	0.1
RADIUM 228, DISSOLVED (PC/L AS RA-228)	<	1	0.68
SELENIUM, DISSOLVED (UG/L AS SE)	<	4.0	
SILVER, DISSOLVED (UG/L AS AG)	<	1.0	
STRONTIUM, DISSOLVED (UG/L AS SR)		1120	
TEMPERATURE, WATER (CELSIUS)		25.4	
THALLIUM, DISSOLVED (UG/L AS TL)	<	1.0	
URANIUM, NATURAL, DISSOLVED, UG/L	<	1.0	
VANADIUM, DISSOLVED (UG/L AS V)		4.0	
ZINC, DISSOLVED (UG/L AS ZN)	<	4.0	

DATE: 5 / 7 / 2013

STATE WELL NUMBER 7923803

OWNER: Eunice Huber

COUNTY: Victoria

DW-000604

AQUIFER: LISSIE FORMATION

RELIABILITY REMARKS: Sampled using TWDB protocols

COLLECTING ENTITY: Texas Water Development Board and Predecessor Agencies

LAB: LCRA - Lower Colorado River Authority

COLLECTION REMARKS:

Asterisk (\*) next to value indicates that the constituent exceeds TCEQ standards (MCL) for drinking water.

Calcium	105 mg/L	Carbonate	0 mg/L	Dissolved Solids	754 mg/L
Magnesium	13.9 mg/L	Bicarbonate	370.98 mg/L	Hardness as CaCO3	320 mg/L
Sodium	138 mg/L	Sulfate	59.6 mg/L	SAR	3.36
Potassium	3.69 mg/L	Chloride	210 mg/L	Conductivity	971 uS
Strontium	0.64 mg/L	Fluoride	0.41 mg/L	pH	6.7
Silica	37.8 mg/L	Nitrate as NO <sub>3</sub>	3.01 mg/L	Temperature	24°C

DESCRIPTION	FLAG	VALUE	+/-
ALKALINITY, FIELD, DISSOLVED AS CaCO3		301	
ALPHA, DISSOLVED (PCL)	<	3	3.48
ALUMINUM, DISSOLVED (UG/L AS AL)	<	4.0	
ANTIMONY, DISSOLVED (UG/L AS SB)	<	1.0	
ARSENIC, DISSOLVED (UG/L AS AS)		4.7	
BARIUM, DISSOLVED (UG/L AS BA)		76.4	
BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1.0	
BORON, DISSOLVED (UG/L AS B)		238	
BROMIDE, DISSOLVED, (MG/L AS BR)		0.65	
CADMIUM, DISSOLVED (UG/L AS CD)	<	1.0	
CHROMIUM, DISSOLVED (UG/L AS CR)		14.6	
COBALT, DISSOLVED (UG/L AS CO)	<	1.0	
COPPER, DISSOLVED (UG/L AS CU)		5.6	
IRON, DISSOLVED (UG/L AS FE)	<	50	
LEAD, DISSOLVED (UG/L AS PB)	<	1.0	
LITHIUM, DISSOLVED (UG/L AS LI)		29.4	
MANGANESE, DISSOLVED (UG/L AS MN)	<	1.0	
MOLYBDENUM, DISSOLVED, UG/L		1.1	
NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)		0.679	
PHOSPHORUS, DISSOLVED (MG/L AS P)		0.029	

DATE: 5 / 7 / 2013

STATE WELL NUMBER 7923803

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DESCRIPTION	FLAG	VALUE	+/-
RADIUM 226, DISSOLVED, PC/L		0.38	0.26
RADIUM 228, DISSOLVED (PC/L AS RA-228)		1.62	0.68
SELENIUM, DISSOLVED (UG/L AS SE)		7.9	
SILVER, DISSOLVED (UG/L AS AG)		2.3	
STRONTIUM, DISSOLVED (UG/L AS SR)		638	
TEMPERATURE, WATER (CELSIUS)		23.7	
THALLIUM, DISSOLVED (UG/L AS TL)	<	1.0	
URANIUM, NATURAL, DISSOLVED, UG/L		4.1	
VANADIUM, DISSOLVED (UG/L AS V)		11.4	
ZINC, DISSOLVED (UG/L AS ZN)		7.7	

DATE: 5 / 7 / 2013

STATE WELL NUMBER 8009407

GW-000012

OWNER: City of Victoria

COUNTY: Victoria

AQUIFER: GULF COAST AQUIFER

RELIABILITY REMARKS: Sampled using TWDB protocols

COLLECTING ENTITY: Texas Water Development Board and Predecessor Agencies

LAB: LCRA - Lower Colorado River Authority

COLLECTION REMARKS:

Asterisk (\*) next to value indicates that the constituent exceeds TCEQ standards (MCL) for drinking water.

Calcium	57.3 mg/L	Carbonate	0 mg/L	Dissolved Solids	507 mg/L
Magnesium	20.6 mg/L	Bicarbonate	344.13 mg/L	Hardness as CaCO3	230 mg/L
Sodium	98.9 mg/L	Sulfate	< 1 mg/L	SAR	2.85
Potassium	3.09 mg/L	Chloride	134 mg/L	Conductivity	741 uS
Strontium	1.42 mg/L	Fluoride	0.2 mg/L	pH	6.99
Silica	22.7 mg/L	Nitrate as NO <sub>3</sub>	< 0.02 mg/L	Temperature	25°C

DESCRIPTION	FLAG	VALUE	+/-
ALKALINITY, FIELD, DISSOLVED AS CaCO3		295	
ALPHA, DISSOLVED (PC/L)	<	3	3.11
ALUMINUM, DISSOLVED (UG/L AS AL)	<	4.0	
ANTIMONY, DISSOLVED (UG/L AS SB)	<	1.0	
ARSENIC, DISSOLVED (UG/L AS AS)	<	2.0	
BARIUM, DISSOLVED (UG/L AS BA)		2420	*
BERYLLIUM, DISSOLVED (UG/L AS BE)	<	1.0	
BORON, DISSOLVED (UG/L AS B)		140	
BROMIDE, DISSOLVED, (MG/L AS BR)		0.47	
CADMIUM, DISSOLVED (UG/L AS CD)	<	1.0	
CHROMIUM, DISSOLVED (UG/L AS CR)		12.0	
COBALT, DISSOLVED (UG/L AS CO)	<	1.0	
COPPER, DISSOLVED (UG/L AS CU)		1.3	
IRON, DISSOLVED (UG/L AS FE)		884	*
LEAD, DISSOLVED (UG/L AS PB)	<	1.0	
LITHIUM, DISSOLVED (UG/L AS LI)		39.8	
MANGANESE, DISSOLVED (UG/L AS MN)		50.3	*
MOLYBDENUM, DISSOLVED, UG/L	<	1.0	
NITRITE PLUS NITRATE, DISSOLVED (MG/L AS N)	<	0.020	
PHOSPHORUS, DISSOLVED (MG/L AS P)	<	0.020	

DATE: 5 / 7 / 2013

STATE WELL NUMBER 8009407

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DESCRIPTION	FLAG	VALUE	+/-
RADIUM 226, DISSOLVED, PC/L		0.59	0.31
RADIUM 228, DISSOLVED (PC/L AS RA-228)	<	1	0.5
SELENIUM, DISSOLVED (UG/L AS SE)	<	4.0	
SILVER, DISSOLVED (UG/L AS AG)	<	1.0	
STRONTIUM, DISSOLVED (UG/L AS SR)		1420	
TEMPERATURE, WATER (CELSIUS)		25.0	
THALLIUM, DISSOLVED (UG/L AS TL)	<	1.0	
URANIUM, NATURAL, DISSOLVED, UG/L	<	1.0	
VANADIUM, DISSOLVED (UG/L AS V)		3.3	
ZINC, DISSOLVED (UG/L AS ZN)		14.8	

**Sample Report Information**



Sample ID:	S140971537	Client ID:	WQN-20140407-01	Sampler:	Client
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Client: VCGCD

Batch No: 16237

Study: Water

Sampled: 4/7/2014

3:10 PM

Project: Water Quality Nursery

Location: Msc.

Type: Grab

Notes:

Matrix: Water

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
E-COLI	3	MPN /100	Colilert-18	E Ramirez	4/7/2014 16:10					<input type="checkbox"/>	B- E Cert. # T104704328-13-7



**QA Summary Report**

Parameter	ID	Result	Ref Value	Amt Added	LOQ	Qualifier	Control	Flag	Comments
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**Flag and Qualifier Legend**

- Negative - Result Detected
- Caution - Problem Detected
- Warning - Null Value
- MDL = Method Detection Limit
- LOQ = Limit of Quantitation
- S = surrogate standard out of limit
- DF = Dilution Factor
- J = Analyte detected between MDL and LOQ
- H = sample out of hold time

MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan

Thursday, April 10, 2014

B Environmental - LDMS QA Report Summary

Note:

THANK YOU!



# B Environmental Laboratory

## Chain Of Custody Record

**RUSH**

Batch # 16237

TEMP UN-C: 46

vs MONTHLY  
+874

THERM ID# 3

TEMP Corr: 46

**Customer Information**

**Report Information**

Name: <i>Tim Faltyssek</i>		Attention: <i>Tim Andruss</i>		Phone:		FAX:	
Address: <i>VC6CD</i>		Project: <i>Water Quality Nursery</i>		EMAIL:			
Comments:				Requested Analysis		Completed By Laboratory	

Sample Information			Matrix	Container		Preservative	Custody Seals Present Yes <input type="checkbox"/> No <input type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> LAB Sample Number
Collected By: <i>Tim Faltyssek</i>	Collected		DW - Drinking H2O S - Solid WW - Waste H2O SL - Sludge L - Liquid W - Water	TYPE	NUMBER		
Client / Field Sample ID	Date	Time	C = Composite G = Grab				
<i>WQV-20140407-01</i>	<i>4-7-2014</i>	<i>3:10pm</i>	<i>G</i>	<i>W</i>	<i>P</i>	<i>1</i>	<i>S140971537</i>

Required Turnaround:  Routine (6-10 days)  Expedite / Rush:  24 hrs  48 hrs  3 days  5 days  Other \_\_\_\_\_ REMARKS:

Surcharge will apply to RUSH TAT Authorized BY: \_\_\_\_\_ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: \_\_\_\_\_

Relinquished By: <i>Jim Faltyssek</i>	Date: <i>4-7-2014</i>	Time: <i>15:35</i>	Received By: <i>[Signature]</i>	Date: <i>4-7-14</i>	Time: <i>15:35</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

WQV-20140416-01



BatchNo: 16237

# SAMPLE REPORT



T104704328-14-8

### Business

VCGCD  
2805 N. Navarro  
Victoria TX 77901  
Att: Tim Faltysek



### Laboratory

B Environmental, LLC.  
2713 Houston Hwy.  
Victoria TX 77901  
ph. 361-572-8224

### Reference Information

Project: Water Quality Nursery  
Printed: Thursday, April  
10, 2014

Re: VCGCD

Dear: Tim Faltysek

Attached are the results for sample(s) received on 4/7/2014

The analytical results relate only to the samples tested.

All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 4 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director

Received  
4-16-14 Dy  
In the office of



Batch No: 16237

# Sample Receipt Checklist

Date Received: 4/7/2014

Project: Water Quality Nursery

Received By: Logan

Login completed by: Logan 4/7/2014

Signature: LoginDate:

Carrier Name: Walk In

- YES  NO  Not Present
- YES  NO  Not Present
- YES  NO  Not Present
- YES  NO
- YES  NO
- YES  NO
- YES  NO
- YES  NO
- YES  NO
- YES  NO
- YES  NO  >0 <6 °C On Ice
- YES  NO  No VOA Vials submitted
- YES  NO  Not Applicable

\*TEMP 4.6/4.6 pH Adjusted? no Checked By K Baros

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted: Person Contacted:

Contacted by: Date Contacted:

Regarding:

Comments:

On Ice, Therm #3, pH lot 1-145-8, E. coli Preserved with Na2S2O3 lot 1-308-001

Corrective Action:



B Environmental, LLC.

BatchNo:

16045

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2713 Houston Hwy.

Victoria TX 77901

Sample Report Information



Sample ID:	S140911301	Client ID:	WQM-20140401-01	Sampler:	Client
------------	------------	------------	-----------------	----------	--------

Client: VC GCD

Batch No: 16045

Study: Water

Sampled: 4/1/2014

9:30 AM

Project: Water Quality McFadden

*DW-000605*

Location: Msc.

Type: Grab

Notes:

Matrix: Water

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Conductivity	1600	µmhos/c	SM 2510 B	P Ryan	4/1/2014 14:15	10	10				<input type="checkbox"/> B- E Cert. # T104704328-13-7
pH (Standard Units)	7.58	SU	SM 4500-H+B	P Ryan	4/1/2014 14:15						<input type="checkbox"/> B- E Cert. # T104704328-13-7
SUB-OUT-TPH	C	mg/Kg									<input type="checkbox"/> DHL Cert No. T104704211-12-8
VOC-.Benzene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 14:37	0.001	0.0003	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-.Ethylbenzene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 14:37	0.001	0.001	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-.Toluene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 14:37	0.001	0.001	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-.Xylenes-T	< 0.003	mg/L	SW 8260B	P Ryan	4/1/2014 14:37	0.003	0.003	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr: .DBFM	91.6	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr: .DCE-d4	98.6	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr: .T-d8	95	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr: 4-BFB	96.7	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7



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BatchNo: 16045

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Sample Report Information



Sample ID:	S140911303	Client ID:	WQM-20140401-02	Sampler:	Client
------------	------------	------------	-----------------	----------	--------

Client: VC GCD  
Study: Water

Batch No: 16045  
Sampled: 4/1/2014

10:13 AM DW-000584

Project: Water Quality McFadden

Location: Msc.

Type: Grab

Matrix: Water

Notes: DW-000584

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Conductivity	1605	µmhos/c	SM 2510 B	P Ryan	4/1/2014 14:15	10	10				<input type="checkbox"/> B- E Cert. # T104704328-13-7
pH (Standard Units)	6.84	SU	SM 4500-H+B	P Ryan	4/1/2014 14:15						<input type="checkbox"/> B- E Cert. # T104704328-13-7
SUB-OUT-TPH	C	mg/Kg									<input type="checkbox"/> DHL Cert No. T104704211-12-8
VOC-Benzene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 15:06	0.001	0.0003	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Ethylbenzene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 15:06	0.001	0.001	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Toluene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 15:06	0.001	0.001	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Xylenes-T	< 0.003	mg/L	SW 8260B	P Ryan	4/1/2014 15:06	0.003	0.003	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. DBFM	89.5	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. DCE-d4	97.4	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. T-d8	92.6	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. 4-BFB	95.9	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7



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Sample Report Information



Sample ID:	S14091130A	Client ID:	WQM-20140401-03	Sampler:	Client
------------	------------	------------	-----------------	----------	--------

Client: VC GCD

Batch No: 16045

Study: Water

Sampled: 4/1/2014

10:23 AM

Project: Water Quality McFadden

Location: Msc.

Type: Grab

Notes: BW-000582

Matrix: Water

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Conductivity	1601	µmhos/c	SM 2510 B	P Ryan	4/1/2014 14:15	10	10				<input type="checkbox"/> B- E Cert. # T104704328-13-7
pH (Standard Units)	6.9	SU	SM 4500-H+B	P Ryan	4/1/2014 14:15						<input type="checkbox"/> B- E Cert. # T104704328-13-7
SUB-OUT-TPH	C	mg/Kg									<input type="checkbox"/> DHL Cert No. T104704211-12-8
VOC- Benzene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 15:35	0.001	0.0003	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC- Ethylbenzene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 15:35	0.001	0.001	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC- Toluene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 15:35	0.001	0.001	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC- Xylenes-T	< 0.003	mg/L	SW 8260B	P Ryan	4/1/2014 15:35	0.003	0.003	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. DBFM	88.1	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. DCE-d4	102	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. T-d8	93.2	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. 4-BFB	92.9	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7



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Sample Report Information



Sample ID:	S14091130B	Client ID:	WQM-20140401-03	Sampler:	Client
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Client: VC GCD

Batch No: 16045

Study: Water

Sampled: 4/1/2014

10:23 AM

Project: Water Quality McFadden

Location: Msc.

Type: Grab

Matrix: Water

Notes: 2 w- 000 582

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Conductivity	< 2070	µmhos/c	SM 2510 B	P Ryan	4/1/2014 14:15	10	10				<input type="checkbox"/> B- E Cert. # T104704328-13-7
pH (Standard Units)	6.86	SU	SM 4500-H+B	P Ryan	4/1/2014 14:15						<input type="checkbox"/> B- E Cert. # T104704328-13-7
SUB-OUT-TPH	C	mg/Kg									<input type="checkbox"/> DHL Cert No. T104704211-12-8
VOC- Benzene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 16:04	0.001	0.0003	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC- Ethylbenzene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 16:04	0.001	0.001	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC- Toluene	< 0.001	mg/L	SW 8260B	P Ryan	4/1/2014 16:04	0.001	0.001	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC- Xylenes-T	< 0.003	mg/L	SW 8260B	P Ryan	4/1/2014 16:04	0.003	0.003	1			<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. DBFM	88.9	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. DCE-d4	93.8	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. T-d8	93.4	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7
VOC-Surr. 4-BFB	94.5	%	SW 8260B	Limit-80%-120%	4/1/2014						<input type="checkbox"/> B- E Cert. # T104704328-13-7



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## QA Summary Report

Parameter	ID	Result	Ref Value	Amt Added	LOQ	Qualifier	Control	Flag	Comments
<b>Method Blank</b>									
Conductivity	Q140921428	<10µmhos/cm	10		10		10		Blank Acceptable.
4/1/2014	14:15								
VOC-Benzene	Q140921320	<0.001mg/L	0.001		0.001		0.001		Blank Acceptable.
4/1/2014	9:10								
VOC-Ethylbenzene	Q140921320	<0.001mg/Kg -dry	0.001		0.001		0.001		Blank Acceptable.
4/1/2014	9:10								
VOC-Toluene	Q140921320	<0.001mg/Kg -dry	0.001		0.001		0.001		Blank Acceptable.
4/1/2014	9:10								
VOC-Xylenes-T	Q140921320	<0.003mg/Kg -dry	0.003		0.003		0.003		Blank Acceptable.
4/1/2014	9:10								
<b>Duplicate</b>									
Conductivity	Q14092143A	1598µmhos/cm	1600		10	0.1%	20		Duplicate RPD Acceptable.
4/1/2014	14:15								
pH (Standard Units)	Q14092143A	7.62SU	7.58		2	0.5%	20		Duplicate RPD Acceptable.
4/1/2014	14:15								
VOC-Benzene	Q14092132B	0.01966mg/L	0.01854		0.001	5.9%	20		Duplicate RPD Acceptable.
4/1/2014	11:36								
VOC-Ethylbenzene	Q14092132B	0.02085mg/K g-dry	0.01934		0.001	7.5%	20		Duplicate RPD Acceptable.
4/1/2014	11:36								
VOC-Toluene	Q14092132B	0.01994mg/K g-dry	0.01836		0.001	8.3%	20		Duplicate RPD Acceptable.
4/1/2014	11:36								
VOC-Xylenes-T	Q14092132B	0.06521mg/K g-dry	0.05971		0.003	8.8%	20		Duplicate RPD Acceptable.
4/1/2014	11:36								



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Parameter	ID	Result	Ref Value	Amt Added	LOQ	Qualifier	Control	Flag	Comments
<b>Laboratory Control Standard</b>									
Conductivity	Q140921430	1392µmhos/cm	1413		10	98.5%	80 - 120		Standard Recovery Acceptable.
4/1/2014 14:15						1.5%	20		Standard RPD Acceptable.
pH (Standard Units)	Q140921430	7.02SU	7		2	100.3%	80 - 120		Standard Recovery Acceptable.
4/1/2014 14:15						0.3%	20		Standard RPD Acceptable.
VOC-Benzene	Q140921322	0.01962mg/L	0.02		0.001	98.1%	80 - 120		Standard Recovery Acceptable.
4/1/2014 9:45						1.9%	20		Standard RPD Acceptable.
VOC-Ethylbenzene	Q140921322	0.02076mg/K g-dry	0.02		0.001	103.8%	80 - 120		Standard Recovery Acceptable.
4/1/2014 9:45						3.7%	20		Standard RPD Acceptable.
VOC-Toluene	Q140921322	0.0195mg/Kg -dry	0.02		0.001	97.5%	80 - 120		Standard Recovery Acceptable.
4/1/2014 9:45						2.5%	20		Standard RPD Acceptable.
VOC-Xylenes-T	Q140921322	0.06235mg/K g-dry	0.06		0.003	103.9%	80 - 120		Standard Recovery Acceptable.
4/1/2014 9:45						3.8%	20		Standard RPD Acceptable.
<b>Matrix Spike</b>									
VOC-Benzene	Q14092132A	0.01854mg/L	0.02	0.02	0.001	92.7%	80 - 120		Spike Recovery Acceptable.
4/1/2014 11:07						7.6%	20		Spike RPD Acceptable.
VOC-Ethylbenzene	Q14092132A	0.01934mg/K g-dry	0.02	0.02	0.001	96.7%	80 - 120		Spike Recovery Acceptable.
4/1/2014 11:07						3.4%	20		Spike RPD Acceptable.
VOC-Toluene	Q14092132A	0.01836mg/K g-dry	0.02	0.02	0.001	91.8%	80 - 120		Spike Recovery Acceptable.
4/1/2014 11:07						8.6%	20		Spike RPD Acceptable.
VOC-Xylenes-T	Q14092132A	0.05971mg/K g-dry	0.06	0.06	0.003	99.5%	80 - 120		Spike Recovery Acceptable.
4/1/2014 11:07						0.5%	20		Spike RPD Acceptable.
<b>Matrix Spike Dup</b>									
VOC-Benzene	Q140921323	0.01966mg/L	0.02	0.02	0.001	98.3%	80 - 120		Spike Recovery Acceptable.
4/1/2014 11:36						1.7%	20		Spike RPD Acceptable.
VOC-Ethylbenzene	Q140921323	0.02085mg/K g-dry	0.02	0.02	0.001	104.3%	80 - 120		Spike Recovery Acceptable.
4/1/2014 11:36						4.2%	20		Spike RPD Acceptable.
VOC-Toluene	Q140921323	0.01994mg/K g-dry	0.02	0.02	0.001	99.7%	80 - 120		Spike Recovery Acceptable.
4/1/2014 11:36						0.3%	20		Spike RPD Acceptable.
VOC-Xylenes-T	Q140921323	0.06521mg/K g-dry	0.06	0.06	0.003	108.7%	80 - 120		Spike Recovery Acceptable.
4/1/2014 11:36						8.3%	20		Spike RPD Acceptable.

**Flag and Qualifier Legend**

 Negative - Result Detected	MDL = Method Detection Limit	DF = Dilution Factor
 Caution - Problem Detected	LOQ = Limit of Quantitation	J = Analyte detected between MDL and LOQ
 Warning - Null Value	S = surrogate standard out of limit	H = sample out of hold time

Wednesday, April 16, 2014

B Environmental - LDMS QA Report Summary



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BatchNo:

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Note:

THANK YOU!!!



**DHL Analytical, Inc.**

Date: 08-Apr-14

**CLIENT:** B-Environmental  
**Project:** VC GCD  
**Project No:** Water Quality McFadden (16045)  
**Lab Order:** 1404022

**Client Sample ID:** WQM-20140401-01  
**Lab ID:** 1404022-01  
**Alternate ID:** S140911301  
**Collection Date:** 04/01/14 09:30 AM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TX1005 TPH WATER</b>							Analyst: AV
T/R Hydrocarbons: C6-C12	ND	0.684	1.96		mg/L	1	04/03/14 12:44 PM
T/R Hydrocarbons: >C12-C28	ND	0.684	1.96		mg/L	1	04/03/14 12:44 PM
T/R Hydrocarbons: >C28-C35	ND	0.684	1.96		mg/L	1	04/03/14 12:44 PM
T/R Hydrocarbons: C6-C35	ND	0.684	1.96		mg/L	1	04/03/14 12:44 PM
Surr: Isopropylbenzene	91.3	0	70-130		%REC	1	04/03/14 12:44 PM
Surr: Octacosane	94.0	0	70-130		%REC	1	04/03/14 12:44 PM

**Qualifiers:**

- \* Value exceeds TCLP Maximum Concentration Level
- C Sample Result or QC discussed in the Case Narrative
- E TPH pattern not Gas or Diesel Range Pattern
- MDL Method Detection Limit
- RL Reporting Limit
- B Analyte detected in the associated Method Blank
- DF Dilution Factor
- J Analyte detected between MDL and RL
- ND Not Detected at the Method Detection Limit
- S Spike Recovery outside control limits

**DHL Analytical, Inc.**

Date: 08-Apr-14

**CLIENT:** B-Environmental  
**Project:** VC GCD  
**Project No:** Water Quality McFadden (16045)  
**Lab Order:** 1404022

**Client Sample ID:** WQM-20140401-02  
**Lab ID:** 1404022-02  
**Alternate ID:** S140911303  
**Collection Date:** 04/01/14 10:13 AM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TX1005 TPH WATER</b>							<b>Analyst: AV</b>
T/R Hydrocarbons: C6-C12	ND	0.686	1.96		mg/L	1	04/03/14 12:53 PM
T/R Hydrocarbons: >C12-C28	ND	0.686	1.96		mg/L	1	04/03/14 12:53 PM
T/R Hydrocarbons: >C28-C35	ND	0.686	1.96		mg/L	1	04/03/14 12:53 PM
T/R Hydrocarbons: C6-C35	ND	0.686	1.96		mg/L	1	04/03/14 12:53 PM
Surr: Isopropylbenzene	94.2	0	70-130		%REC	1	04/03/14 12:53 PM
Surr: Octacosane	94.3	0	70-130		%REC	1	04/03/14 12:53 PM

**Qualifiers:**

- \* Value exceeds TCLP Maximum Concentration Level
- B Analyte detected in the associated Method Blank
- C Sample Result or QC discussed in the Case Narrative
- DF Dilution Factor
- E TPH pattern not Gas or Diesel Range Pattern
- J Analyte detected between MDL and RL
- MDL Method Detection Limit
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit
- S Spike Recovery outside control limits

**DHL Analytical, Inc.**

Date: 08-Apr-14

<b>CLIENT:</b> B-Environmental	<b>Client Sample ID:</b> WQM-20140401-03
<b>Project:</b> VC GCD	<b>Lab ID:</b> 1404022-03
<b>Project No:</b> Water Quality McFadden (16045)	<b>Alternate ID:</b> S14091130A
<b>Lab Order:</b> 1404022	<b>Collection Date:</b> 04/01/14 10:23 AM
	<b>Matrix:</b> AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TX1005 TPH WATER</b>							Analyst: AV
T/R Hydrocarbons: C6-C12	ND	0.693	1.98		mg/L	1	04/03/14 01:02 PM
T/R Hydrocarbons: >C12-C28	ND	0.693	1.98		mg/L	1	04/03/14 01:02 PM
T/R Hydrocarbons: >C28-C35	ND	0.693	1.98		mg/L	1	04/03/14 01:02 PM
T/R Hydrocarbons: C6-C35	ND	0.693	1.98		mg/L	1	04/03/14 01:02 PM
Surr: Isopropylbenzene	93.6	0	70-130		%REC	1	04/03/14 01:02 PM
Surr: Octacosane	95.3	0	70-130		%REC	1	04/03/14 01:02 PM

<b>Qualifiers:</b>	* Value exceeds TCLP Maximum Concentration Level	B Analyte detected in the associated Method Blank
	C Sample Result or QC discussed in the Case Narrative	DF Dilution Factor
	E TPH pattern not Gas or Diesel Range Pattern	J Analyte detected between MDL and RL
	MDL Method Detection Limit	ND Not Detected at the Method Detection Limit
	RL Reporting Limit	S Spike Recovery outside control limits

**DHL Analytical, Inc.**

Date: 08-Apr-14

**CLIENT:** B-Environmental  
**Project:** VC GCD  
**Project No:** Water Quality McFadden (16045)  
**Lab Order:** 1404022

**Client Sample ID:** WQM-20140401-04  
**Lab ID:** 1404022-04  
**Alternate ID:** S14091130B  
**Collection Date:** 04/01/14 10:51 AM  
**Matrix:** AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TX1005 TPH WATER</b>							<b>Analyst: AV</b>
T/R Hydrocarbons: C6-C12	ND	0.697	1.99		mg/L	1	04/03/14 01:11 PM
T/R Hydrocarbons: >C12-C28	ND	0.697	1.99		mg/L	1	04/03/14 01:11 PM
T/R Hydrocarbons: >C28-C35	ND	0.697	1.99		mg/L	1	04/03/14 01:11 PM
T/R Hydrocarbons: C6-C35	ND	0.697	1.99		mg/L	1	04/03/14 01:11 PM
Surr: Isopropylbenzene	91.0	0	70-130		%REC	1	04/03/14 01:11 PM
Surr: Octacosane	91.9	0	70-130		%REC	1	04/03/14 01:11 PM

<b>Qualifiers:</b>	* Value exceeds TCLP Maximum Concentration Level	B Analyte detected in the associated Method Blank
	C Sample Result or QC discussed in the Case Narrative	DF Dilution Factor
	E TPH pattern not Gas or Diesel Range Pattern	J Analyte detected between MDL and RL
	MDL Method Detection Limit	ND Not Detected at the Method Detection Limit
	RL Reporting Limit	S Spike Recovery outside control limits

DHL Analytical, Inc.

Date: 08-Apr-14

CLIENT: B-Environmental  
 Work Order: 1404022  
 Project: VC GCD

**ANALYTICAL QC SUMMARY REPORT**

RunID: GC15\_140403B

The QC data in batch 62660 applies to the following samples: 1404022-01A, 1404022-02A, 1404022-03A, 1404022-04A

Sample ID MB-62660	Batch ID: 62660	TestNo: TX1005	Units: mg/L
SampType: MBLK	Run ID: GC15_140403B	Analysis Date: 4/3/2014 12:15:43 PM	Prep Date: 4/2/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	ND	2.00								
T/R Hydrocarbons: >C12-C28	ND	2.00								
T/R Hydrocarbons: >C28-C35	ND	2.00								
T/R Hydrocarbons: C6-C35	ND	2.00								
Surr: Isopropylbenzene	2.32		2.500		93.0	70	130			
Surr: Octacosane	2.41		2.500		96.5	70	130			

Sample ID LCS-62660	Batch ID: 62660	TestNo: TX1005	Units: mg/L
SampType: LCS	Run ID: GC15_140403B	Analysis Date: 4/3/2014 12:24:42 PM	Prep Date: 4/2/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	24.3	2.00	25.00	0	97.4	75	125			
Surr: Isopropylbenzene	2.45		2.500		97.9	70	130			
Surr: Octacosane	2.35		2.500		94.1	70	130			

Sample ID LCSD-62660	Batch ID: 62660	TestNo: TX1005	Units: mg/L
SampType: LCSD	Run ID: GC15_140403B	Analysis Date: 4/3/2014 12:33:40 PM	Prep Date: 4/2/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	23.3	2.00	25.00	0	93.3	75	125	4.28	20	
Surr: Isopropylbenzene	2.39		2.500		95.4	70	130	0	0	
Surr: Octacosane	2.33		2.500		93.1	70	130	0	0	

Sample ID 1404026-02BMS	Batch ID: 62660	TestNo: TX1005	Units: mg/L
SampType: MS	Run ID: GC15_140403B	Analysis Date: 4/3/2014 1:38:02 PM	Prep Date: 4/2/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	23.9	1.94	24.22	0	98.9	75	125			
Surr: Isopropylbenzene	2.41		2.422		99.5	70	130			
Surr: Octacosane	2.27		2.422		93.5	70	130			

Sample ID 1404026-02BMSD	Batch ID: 62660	TestNo: TX1005	Units: mg/L
SampType: MSD	Run ID: GC15_140403B	Analysis Date: 4/3/2014 1:47:00 PM	Prep Date: 4/2/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	23.1	1.96	24.47	0	94.4	75	125	3.55	20	
Surr: Isopropylbenzene	2.32		2.447		94.7	70	130	0	0	
Surr: Octacosane	2.28		2.447		93.1	70	130	0	0	

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - J Analyte detected between MDL and RL
  - ND Not Detected at the Method Detection Limit
  - RL Reporting Limit
  - J Analyte detected between SDL and RL
  - DF Dilution Factor
  - MDL Method Detection Limit
  - R RPD outside accepted control limits
  - S Spike Recovery outside control limits
  - N Parameter not NELAC certified

# B Environmental Laboratory

## Chain Of Custody Record

Batch #16045

TEMP UN-C: 1.9

THERM ID# 3

TEMP Corr: 1.9

<b>Customer Information</b>		<b>Report Information</b>	
Name: <i>Tim Faltysiek</i>	Attention: <i>Tim Andrus</i>	Phone: <i>579-579-6063</i>	FAX:
Address: <i>UCGCD</i>	Project: <i>Water Quality McFadden</i>	EMAIL:	
Comments:		Requested Analysis	Completed By Laboratory

Sample Information				Matrix	Container			Preservative	PH	Concl	TPH	B-TEX	Custody Seals Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Intact Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> LAB Sample Number
Collected By: <i>Tim Faltysiek</i>	Client / Field Sample ID	Collected		G = Grab C = Composite	OW - Drinking H2O S - Solid WW - Waste H2O SL - Sludge L - Liquid W - Water	TYPE	NUMBER						
Date		Time											
<i>WQM-20140401-01</i>	<i>4-1-14</i>	<i>9:30AM</i>	<i>G</i>	<i>W</i>	<i>P-C</i>	<i>b</i>	<i>V</i>	<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input checked="" type="checkbox"/> ICE <input type="checkbox"/> HCL	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>S140911301</i>
<i>WQM-20140401-02</i>	<i>4-1-14</i>	<i>10:13AM</i>	<i>G</i>	<i>W</i>	<i>P-C</i>	<i>G</i>	<i>V</i>	<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input checked="" type="checkbox"/> ICE <input type="checkbox"/> HCL	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>S140911303</i>
<i>WQM-20140401-03</i>	<i>4-1-14</i>	<i>10:23AM</i>	<i>G</i>	<i>W</i>	<i>P-C</i>	<i>b</i>	<i>V</i>	<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input checked="" type="checkbox"/> ICE <input type="checkbox"/> HCL	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>S14091130A</i>
<i>WQM-20140401-04</i>	<i>4-1-14</i>	<i>10:51AM</i>	<i>G</i>	<i>W</i>	<i>P-C</i>	<i>b</i>	<i>V</i>	<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input checked="" type="checkbox"/> ICE <input type="checkbox"/> HCL	<i>+</i>	<i>+</i>	<i>+</i>	<i>+</i>	<i>S14091130B</i>
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL					
								<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL					

WQM-20140421-01

Required Turnaround:  Routine (6-10 days)    Expedite / Rush:  24 hrs     48 hrs     3 days     5 days     Other \_\_\_\_\_

Surcharge will apply to RUSH TAT Authorized BY: \_\_\_\_\_ Container Type: P=Plastic, G=Glass, V=Voa, O=Other | Carrier ID: \_\_\_\_\_

Relinquished By: <i>Tim Faltysiek</i>	Date: <i>4-1-14</i>	Time: <i>12:56</i>	Received By: <i>[Signature]</i>	Date: <i>4-1-14</i>	Time: <i>12:56</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

BatchNo: 16045

# SAMPLE REPORT



T104704328-14-8

### Business

VC GCD  
2805 N. Navarro Street  
Victoria TX 77901  
Att: Tim Faltysek



### Laboratory

B Environmental, LLC.  
2713 Houston Hwy.  
Victoria TX 77901  
ph. 361-572-8224

### Reference Information

Project: Water Quality McFadden  
Printed: Wednesday,  
April 16, 2014

Received  
4-21-14 Dy  
In the office of



Re: VC GCD

Dear: Tim Faltysek

Attached are the results for sample(s) received on 4/1/2014

The analytical results relate only to the samples tested.  
All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 15 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director





B Environmental, LLC.

BatchNo:

16045

Page 2 of 15

2713 Houston Hwy.

Victoria TX 77901

Batch No: 16045

# Sample Receipt Checklist

Date Received: 4/1/2014

Project

Water Quality McFadden

Received By: Shimek

Login completed by:

Shimek 4/1/2014

Signature LoginDate:

Carrier Name Walk In

- Shipping container/cooler in good condition?  YES  NO  Not Present
- Custody seals intact on shipping container/cooler?  YES  NO  Not Present
- Custody seals intact on sample bottles?  YES  NO  Not Present
- Chain of Custody present?  YES  NO
- Chain of Custody signed when relinquished and received  YES  NO
- Chain of Custody agrees with sample labels?  YES  NO
- Samples in proper container/bottles?  YES  NO
- Sample containers intact?  YES  NO
- Sufficient sample volume for indicated tests?  YES  NO
- All samples received within holding times?  YES  NO
- Container/Temp Blank - temperature in compliance?  YES  NO  >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm?  YES  NO  No VOA Vials submitted
- Water - pH acceptable upon receipt?  YES  NO  Not Applicable

\*TEMP 1.9/1.9 pH Adjusted? no Checked By K Baros

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted PersonContacted

Contacted by: Date Contacted:

Regarding

Comments

On Ice, Therm #3, pH lot 1-145-8, TPH/BTEX Preserved with HCL lot 3-030-004

Corrective Action



**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: DW-000130 Date: 4-22-2014

Location: 28 Wellspring Blvd Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Tim Ramey Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: 1.1 Starting Water Level (ft. BGL): 88.45

Casing Diameter (in ID): 4 Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltysell Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH 7-1500/PH 4-1460/PH 10-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 8,974 µmhos

ORP Meter: YSI 556 MPS Field Calibration: 780 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

	Check Solution	Field Reading
Temperature	<u>21-25</u>	<u>22.01</u>
pH	<u>6.8-7.2</u>	<u>6.98</u>
Conductivity	<u>7630-8010</u>	<u>7956</u>
ORP	<u>212-242</u>	<u>220.3</u>

Other: \_\_\_\_\_

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>10:35 AM</u>	<u>59/35Sec</u>	<u>8.57/m</u>	-	-	-	-	-	-	-	
<u>9:45 AM</u>			<u>23.92</u>	<u>6.85</u>	<u>775</u>		<u>82.8</u>		<u>0.514</u>	
<u>9:48 AM</u>			<u>23.94</u>	<u>7.13</u>	<u>775</u>		<u>9.4</u>		<u>0.514</u>	
<u>9:51 AM</u>			<u>23.96</u>	<u>7.00</u>	<u>775</u>		<u>-18.4</u>		<u>0.514</u>	
<u>9:54 AM</u>			<u>23.96</u>	<u>6.96</u>	<u>775</u>		<u>-34.8</u>		<u>0.514</u>	
<u>9:57 AM</u>			<u>23.98</u>	<u>6.80</u>	<u>774</u>		<u>-45.9</u>		<u>0.514</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: \_\_\_\_\_



**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: DW-000596 Date: 4-23-2014  
 Location: 13323 Nurgely Dr. 97°05.763W 20°55.379 N Starting Water Level (ft. below BMP): \_\_\_\_\_  
 Owner: Victoria County Pct. 2 shop well Casing Stickup (ft.): \_\_\_\_\_  
 Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_  
 Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_  
 Sampled by: Tim Faltysek Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**  
 Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A  
 Purging: Purged from faucet Sampling: N/A

**INSTRUMENTS (indicate make, model, I.D.)**

pH: YSI 556 MPS	Field Calibration: <u>PH7-1500/PH4-1460/PH100-1525</u>
Conductivity: YSI 556 MPS	Field Calibration: <u>6883 8,974 µmhos</u>
ORP Meter: YSI 556 MPS	Field Calibration: <u>7800 4229 mV</u>
DO Meter: YSI 556 MPS	Field Calibration (Optional): _____
Thermometer: YSI 556 MPS	Check: A check solution will be used to validate calibration.
TDS: YSI 556 MPS	
Other: _____	

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>22.38</u>
pH	<u>6.8 - 7.2</u>	<u>7.04</u>
Conductivity	<u>7630 - 8010</u>	<u>7956</u>
ORP	<u>212 - 242</u>	<u>219.9</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>8:45 AM</u>	<u>59.30 sec</u>	<u>10.09/m</u>								
<u>8:55 AM</u>			<u>24.14</u>	<u>6.93</u>	<u>731</u>		<u>75.7</u>		<u>0.483</u>	
<u>8:58 A</u>			<u>24.23</u>	<u>6.99</u>	<u>729</u>		<u>70.8</u>		<u>0.481</u>	
<u>9:01 A</u>			<u>24.26</u>	<u>7.00</u>	<u>727</u>		<u>70.5</u>		<u>0.499</u>	
<u>9:04 A</u>			<u>24.29</u>	<u>7.01</u>	<u>725</u>		<u>71.3</u>		<u>0.478</u>	
<u>9:07 A</u>			<u>24.31</u>	<u>7.00</u>	<u>724</u>		<u>72.6</u>		<u>0.477</u>	

**SAMPLE INVENTORY**

Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			

Comments: Tim Faltysek 4-23-2014



**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: DW-000587 Date: 4-23-2014  
 Location: 13323 Nursery Dr. 97°05.732W 28°55.999N Starting Water Level (ft. below BMP): \_\_\_\_\_  
 Owner: Victoria County Pct 2 Barr Camp Well Casing Stickup (ft.): \_\_\_\_\_  
 Measuring Point (MP) of Well: 1.9 ft. Starting Water Level (ft. BGL): 67.9  
 Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_  
 Sampled by: Tim Faltysiek Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**  
 Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: NA  
 Purging: Purged from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS	Field Calibration: <u>PH7-1500/DH4-1460/PH20.0 -1525</u>
Conductivity: YSI 556 MPS	Field Calibration: <u>6003 8,974 <math>\mu</math>mhos</u>
ORP Meter: YSI 556 MPS	Field Calibration: <u>700 1229 mV</u>
DO Meter: YSI 556 MPS	Field Calibration (Optional): _____
Thermometer: YSI 556 MPS	Check: A check solution will be used to validate calibration.
TDS: YSI 556 MPS	
Other: _____	

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>22.38</u>
pH	<u>6.8 - 7.2</u>	<u>7.04</u>
Conductivity	<u>7630 - 8010</u>	<u>7956</u>
ORP	<u>212 - 242</u>	<u>218.9</u>


**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>9:27 AM</u>	<u>59.35 sec</u>	<u>8.579/m</u>	-	-	-	-	-	-	-	
<u>9:48 A</u>			<u>23.77</u>	<u>6.59</u>	<u>818</u>		<u>122.7</u>		<u>0.544</u>	
<u>9:51 A</u>			<u>23.77</u>	<u>7.03</u>	<u>817</u>		<u>27.9</u>		<u>0.544</u>	
<u>9:54 AM</u>			<u>23.84</u>	<u>7.04</u>	<u>818</u>		<u>-14.8</u>		<u>0.544</u>	
<u>9:57 AM</u>			<u>23.89</u>	<u>7.10</u>	<u>817</u>		<u>-36.9</u>		<u>0.543</u>	
<u>10:00 A</u>			<u>23.89</u>	<u>7.14</u>	<u>820</u>		<u>-51.2</u>		<u>0.544</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: Tim Faltysiek 4-23-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**



Chain of Custody Form

COC ID: 40420

1203223

PDW-PORT LAVACA: Pastor, Berling & Wheeler, LLC

Project: VOGCO Arsonic

Customer Information			Project Information				Parameter Method Request for Analysis													
Purchase Order		Project Name	VOGCO Arsonic			A	Arsonic													
Work Order		Project Number	201			B														
Contracting Method	Private Contract	Lab to Company	PBAJ, LLC			C														
Order Request To	Plant Manager	Analyst				D														
Address	620 E. Avenue					E														
City/State	Vidor, TX 77901					F														
Phone	(817) 573-6442					G														
Fax	(817) 573-6441					H														
Lab Address	10000 W. Loop West, Suite 100					I														
						J														
Order No.	Order Description	Order Date	Time	Temp	Humidity	Pressure	Altitude	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude	Latitude	Longitude	Altitude	
101	GW-237	3/7/12	1257	100%	1013	1														
102	MW-179		1050																	
103	Lot - 10250 Hwy 185		1131																	
104	Resh. Groundwater - 10250 Hwy 185		1153																	
105	MW-122		1232																	
106	VOGCO-1		1257																	
107	GW-235		1006																	
108																				
109																				
110																				
Sampled by: Keith Dunning		Date: 3/7/12		Time: 1042		Signature: [Signature]		Required Temperature: <input checked="" type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C Required Humidity: <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C Required Pressure: <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C Required Altitude: <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C Required Latitude: <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C Required Longitude: <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C <input type="checkbox"/> 2-8°C												
Requested by: [Signature]		Date: [Signature]		Time: [Signature]		Signature: [Signature]		OC Package: (Check Box Below) <input checked="" type="checkbox"/> Level II: Standard OC <input type="checkbox"/> Level III: Std OC + Raw Data <input type="checkbox"/> Level IV: SWMS CLP Lite Other:												

SAMPLING PREPARATION FORM			PAGE 1 of 1			
<b>PROJECT INFORMATION</b>						
Project Number: 3161		Project Name: VCGCO Arsenic Sampling		Location: Victoria County, Texas		
Task No.:		Task Manager: Matt Wickham		Task Manager email: matt.wickham@pbwlc.com		
Sampling Dates: 3/7/2012		Sampling Personnel: Kevin Dworsky				
Laboratory to be used: ALS Environmental		Lab Contact, Phone No.: (281) 530-6658				
Lab Address: 10450 Standiffl Road Suite 210, Houston, Texas 77099						
Turnaround Requirements: Standard			Lab Report to: Matt Wickham			
Other Information:						
<b>QUALITY ASSURANCE / QUALITY CONTROL INFORMATION</b>						
Type QA/QC (Standard, Comprehensive, CLP): Standard						
Trip Blank Type (if required): -						
Trip Blank (Y/N): No						
Field Blank Type (if required): -						
Field Blank (Y/N): No Qty:						
Which Location to Duplicate and Method (if required): TBD on site						
Field Dup. (Y/N): Yes Qty: 1 per every 20 samples						
Purge Equipment: Residential Well Pump						
Sampling Equipment: Residential Well Pump						
QA/QC Sample Frequency: Once						
<b>SAMPLING SUMMARY</b>						
Media to be sampled (Fill out form for each type):						
Locations	Analyses	Sample Container	No.	Preservation	Filter Y/N	Remarks
Cell 235	As	500 ml	1	HNO <sub>3</sub>	<input checked="" type="checkbox"/> If needed	
NW 179	As	500 ml	1	HNO <sub>3</sub>	Y - If needed	
Loc - 10250 Hwy 185	As	500 ml	1	HNO <sub>3</sub>	Y - If needed	
10250 Hwy 185	As	500 ml	1	HNO <sub>3</sub>	N	
NW 122	As	500 ml	1	HNO <sub>3</sub>	N	
GW 237	As	500 ml	1	HNO <sub>3</sub>	N	Dup: VCGCO-1
Bottles Checked:				PASTOR, BEHLING, & WHEELER, LLC		
Other information:				820 E. Airline		
				Victoria, Texas 77901		
				Phone: (361) 573-6442 Fax: (361) 573-6449		



Chain of Custody Form

Page 1 of 1

COC ID: **40420**

- Cincinnati, OH - 1 513 733 5136
- Dallas, TX - 1 972 216 2600
- Fort Collins, CO - 1 970 430 1511
- Houston, TX - 1 281 330 5434
- Indianapolis, IN - 1 317 944 5541
- Las Vegas, NV - 1 702 259 8870
- Little Rock, AR - 1 501 246 1700
- Phoenix, AZ - 1 602 944 4801
- San Jose, CA - 1 408 246 1700
- Tulsa, OK - 1 918 442 1501

Customer Information		ALS Project Manager		Work Order #:													
Purchase Order		Project Name		Parameter/Method Request for Analysis													
Work Order		Project Number															
Company Name		Bill To Company															
Send Report To		Invoice Addr															
Address		Address															
City/State/Zip		City/State/Zip															
Phone		Phone															
Fax		Fax															
e-Mail Address		e-Mail Address															
No.	Sample Description	Date	Time	Matrix	Pres.	#Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CONDENSED WATER - 237	3/17/12	1257	WATER	10%	1	X										
2	MW - 178		1050			1	X										
3	Loa - 10250 Hwy 185		1121			1	X										
4	Loa - 10250 Hwy 185		1153			1	V										
5	MW - 122		1221			1	X										
6	VC 16021		1257			1	X										
7	GW - 235		1006			1	X										
8																	
9																	
10																	

Sample(s): Please Print & Sign: Kevin Dushaby Signature: [Signature] Shipment Method: Direct Request Turnaround Time:  24 Hr  48 Hr  72 Hr  96 Hr Results Due Date: \_\_\_\_\_

Prepared by: [Signature] Date: 3/17/12 Time: 1642 (Time of Day) \_\_\_\_\_

QC Package: (Check Box Below)

<input checked="" type="checkbox"/> Level II Standard OP	
<input type="checkbox"/> Level III Standard OP	
<input type="checkbox"/> Level IV: SW - Non-123 Table	
Other: _____	

Wam - 20140424-02

GROUNDWATER SAMPLING RECORD						PAGE 1 of 1					
State Well ID:			District Well ID: <u>EW 835</u>			Date: <u>3/7/12</u>					
Location: <u>Northern Lavakill</u>						Starting Water Level (ft. below BMP):					
Owner:						Casing Slickup (ft.):					
Measuring Point (M/P) of Well:						Starting Water Level (ft. BGL):					
Casing Diameter (in ID):						Total Depth (ft. BGL):					
Sampled by: <u>KBD</u>						Casing Volume (gal.):					
QUALITY ASSURANCE											
METHODS (describe):											
Cleaning Equipment: <u>Dedicated Equipment, Oil water, and Liquid-Nox</u>											
Purging: <u>Well / PVC BY TAP</u>						Sampling: <u>same</u>					
Disposal of Discharged Water: <u>on ground</u>											
INSTRUMENTS (Indicate make, model, LD.)											
Thermometer: <u>Horba U-52</u>											
pH Meter: <u>Horba U-52</u>			Field Calibration: <u>Auto Calibration - 100-4 Horba Calibration Solution</u>								
Conductivity Meter: <u>Horba U-52</u>			Field Calibration: <u>Auto Calibration - 100-4 Horba Calibration Solution</u>								
Turbidimeter: <u>Horba U-52</u>			Field Calibration: <u>Auto Calibration - 100-4 Horba Calibration Solution</u>								
ORP Meter: <u>Horba U-52</u>			Field Calibration: <u>Auto Calibration - 100-4 Horba Calibration Solution</u>								
DO Meter: <u>Horba U-52</u>			Field Calibration: <u>Auto Calibration - 100-4 Horba Calibration Solution</u>								
TDS Meter: <u>Horba U-52</u>			Field Calibration: <u>Auto Calibration - 100-4 Horba Calibration Solution</u>								
Other:											
SAMPLING MEASUREMENTS											
Time	Con. Val. (L)	Purge Rate (L/m)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	Turbidity & Sediment (NTU)	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
941	-	-	-	-	-	-	-	-	-	-	Well valve open
951	-	2.5	-	-	-	Riser	-	-	-	-	switched to riser
956	1.0	1.0	22.04	6.49	1900	TAP	25.9	79	4.90	1.22	
1001	17.5	1.0	22.13	6.33	1920	TAP	24.1	77	4.46	1.23	
1026	22.5	1.0	22.0	6.30	1910	TAP	15.7	77	2.82	1.23	
SAMPLE INVENTORY											
Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)					
Time	Volume	Composition (O, P)	No.								
1006	500mL	P	1	Y	HNO <sub>3</sub>	Arsenic					
Comments: <u>Con. Vol is only from line 16 readings not initial purge</u>						<b>PASTOR, BEHLING &amp; WHEELER, LLC</b> 820 E. Airline Victoria, Texas 77901 Phone: (361) 673-6442 Fax: (361) 673-6449					



Wam- 20140424-03

GROUNDWATER SAMPLING RECORD										PAGE 1 of 1	
State Well ID:			District Well ID: <b>AW</b>			Date: <b>3/7/12</b>					
Location: <b>Field WEST OF (Newell)</b>					Starting Water Level (ft. below BMP):						
Owner:					Casing Sitcup (ft.):						
Measuring Point (MP) of Well:					Starting Water Level (ft. BGL):						
Casing Diameter (In ID):					Total Depth (ft. BGL):						
Sampled by: <b>KED</b>					Casing Volume (gal.):						
QUALITY ASSURANCE											
METHODS (describe):											
Cleaning Equipment: <b>Dedicated Equipment, Oil water, and Liquid-Nox</b>											
Purging: <b>WELL VALVE BY TRIP</b> Sampling: <b>SAME</b>											
Disposal of Discharged Water: <b>ON GROUND</b>											
INSTRUMENTS (Indicate make, model, I.D.)											
Thermometer: <b>Horiba U-52</b>											
pH Meter: <b>Horiba U-52</b>			Field Calibration: <b>Auto Calibration - 100-4 Horiba Calibration Solution</b>								
Conductivity Meter: <b>Horiba U-52</b>			Field Calibration: <b>Auto Calibration - 100-4 Horiba Calibration Solution</b>								
Turbidimeter: <b>Horiba U-52</b>			Field Calibration: <b>Auto Calibration - 100-4 Horiba Calibration Solution</b>								
ORP Meter: <b>Horiba U-52</b>			Field Calibration: <b>Auto Calibration - 100-4 Horiba Calibration Solution</b>								
DO Meter: <b>Horiba U-52</b>			Field Calibration: <b>Auto Calibration - 100-4 Horiba Calibration Solution</b>								
TDS Meter: <b>Horiba U-52</b>			Field Calibration: <b>Auto Calibration - 100-4 Horiba Calibration Solution</b>								
Other:											
SAMPLING MEASUREMENTS											
Time	Com. Vol. (L)	Purge Rate (gpm)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	Turbidity & Sediment (NTU)	ORP (mV)	DO (mg/L)	TDS (µg/L)	Remarks
1025	-	8.0	-	-	-	-	-	-	-	-	Well spigot on
1035	80	1.0	22.91	6.51	2050	NEUTRAL	0.1	158	7.83	1.31	switched to FL
1040	85	1.0	22.35	6.26	2050	↓	0.1	157	7.62	1.31	
1045	90	1.0	22.29	6.12	2060	↓	0.0	155	7.10	1.32	
SAMPLE INVENTORY											
Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control samples, other)					
Time	Volume	Composition (O, P)	No.								
1050	500mL	P	1	N	HNO <sub>3</sub>	Arsenic					
Comments: <b>Location of well is unknown. Sampled from pressure trans location.</b>					<b>PASTOR, BEHLING &amp; WHEELER, LLC</b> 620 E. Airline Victoria, Texas 77901 Phone: (361) 673-6442 Fax: (361) 673-6449						

WQM- 20140424-04

GROUNDWATER SAMPLING RECORD						PAGE 1 of 1					
State Well ID:			District Well ID: <i>Log - 10250 Hwy 85</i>			Date: <i>3/7/12</i>					
Location: <i>10250 Hwy 185</i>			Starting Water Level (ft. below BMD):								
Owner:			Casing Stickup (ft.):								
Measuring Point (MP) of Well:			Starting Water Level (ft. BGL):								
Casing Diameter (In ID): <i>4"</i>			Total Depth (ft. BGL):								
Sampled by: <i>KED</i>			Casing Volume (gal.):								
<b>QUALITY ASSURANCE</b>											
<b>METHODS (describe):</b>											
Cleaning Equipment: <i>Dedicated Equipment, DI water, and Liquid-Nox</i>											
Purging: <i>100% 5/1908</i> Samplings: <i>5906</i>											
Disposal of Discharged Water: <i>on ground</i>											
<b>INSTRUMENTS (Indicate make, model, I.D.)</b>											
Thermometers: <i>Horiba U-52</i>											
pH Meter: <i>Horiba U-52</i>			Field Calibration: <i>Auto Calibration - 100-4 Horiba Calibration Solution</i>								
Conductivity Meter: <i>Horiba U-52</i>			Field Calibration: <i>Auto Calibration - 100-4 Horiba Calibration Solution</i>								
Turbidimeter: <i>Horiba U-52</i>			Field Calibration: <i>Auto Calibration - 100-4 Horiba Calibration Solution</i>								
ORP Meter: <i>Horiba U-52</i>			Field Calibration: <i>Auto Calibration - 100-4 Horiba Calibration Solution</i>								
DO Meter: <i>Horiba U-52</i>			Field Calibration: <i>Auto Calibration - 100-4 Horiba Calibration Solution</i>								
TDS Meter: <i>Horiba U-52</i>			Field Calibration: <i>Auto Calibration - 100-4 Horiba Calibration Solution</i>								
Other:											
<b>SAMPLING MEASUREMENTS</b>											
Time	Com. Vol. (L)	Purge Rate (l/min)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	Turbidity & Sediment (NTU)	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<i>1054</i>	<i>-</i>	<i>11</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>well spigot open</i>
<i>1106</i>	<i>110</i>	<i>1.0</i>	<i>20.37</i>	<i>6.17</i>	<i>1790</i>	<i>green</i>	<i>2.3</i>	<i>61</i>	<i>1.09</i>	<i>1.15</i>	<i>switched to FC</i>
<i>1111</i>	<i>165</i>	<i>1.0</i>	<i>20.27</i>	<i>6.11</i>	<i>1790</i>	<i>↓</i>	<i>1.3</i>	<i>44</i>	<i>0.55</i>	<i>1.15</i>	
<i>1116</i>	<i>120</i>	<i>1.0</i>	<i>20.73</i>	<i>6.12</i>	<i>1790</i>	<i>↓</i>	<i>1.1</i>	<i>36</i>	<i>0.65</i>	<i>1.15</i>	
<b>SAMPLE INVENTORY</b>											
Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)					
Time	Volume	Composition (O, P)	No.								
<i>1124</i>	<i>500mL</i>	<i>P</i>	<i>1</i>	<i>N</i>	<i>HNO<sub>3</sub></i>	<i>Arsenic</i>					
Comments:						<b>PASTOR, BEHLING &amp; WHEELER, LLC</b> 620 E. Airline Victoria, Texas 77901 Phone: (361) 573-6442 Fax: (361) 573-6449					

WBM 20140424-05

GROUNDWATER SAMPLING RECORD											
Location: 10715 Hwy 185											Starting Water Level (ft. below BMP):
Owner: G. A. ...											Casing Siftup (ft.):
Measuring Point (MP) of Well:											Starting Water Level (ft. BGL):
Casing Diameter (in ID):											Total Depth (ft. BGL):
Sampled by: KBD											Casing Volume (gal.):
QUALITY ASSURANCE											
METHODS (describe):											
Cleaning Equipment: Dedicated Equipment, DI water, and Liquid-Nox											
Purging: Well Spiger Sampling: Same											
Disposal of Discharged Water: on ground											
INSTRUMENTS (Indicate make, model, I.D.)											
Thermometer: Horiba U-52											
pH Meter: Horiba U-52 Field Calibration: Auto Calibration - 100-4 Horiba Calibration Solution											
Conductivity Meter: Horiba U-52 Field Calibration: Auto Calibration - 100-4 Horiba Calibration Solution											
Turbidimeter: Horiba U-52 Field Calibration: Auto Calibration - 100-4 Horiba Calibration Solution											
ORP Meter: Horiba U-52 Field Calibration: Auto Calibration - 100-4 Horiba Calibration Solution											
DO Meter: Horiba U-52 Field Calibration: Auto Calibration - 100-4 Horiba Calibration Solution											
TDS Meter: Horiba U-52 Field Calibration: Auto Calibration - 100-4 Horiba Calibration Solution											
Other:											
SAMPLING MEASUREMENTS											
Time	Cum. Vol. (l)	Purge Rate (l/min)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	Turbidity & Sediment (NTU)	ORP (mV)	DO (mg/L)	TDS (µg/L)	Remarks
1128	-	1.5	-	-	-	-	-	-	-	-	when spiger open
1138	150	1.0	22.28	6.23	1680	Ascent	0.0	173	4.71	1.07	switched to F.
1143	155	1.0	22.27	6.14	1680	↓	0.1	170	4.70	1.07	
1148	160	1.0	22.25	6.13	1680	↓	0.1	167	4.69	1.07	
SAMPLE INVENTORY											
Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)					
Time	Volume	Composition (O, P)	No.								
1153	500mL	P	1	Y	HNO <sub>3</sub>	Arsenic					
Comments:						<b>PASTOR, BEHLING &amp; WHEELER, LLC</b> 620 E. Airline Victoria, Texas 77801 Phone: (361) 573-6442 Fax: (361) 573-6443					

WQM- 20140424-06

GROUNDWATER SAMPLING RECORD						NW	PAGE 1 of 1				
State Well ID:			District Well ID: <u>7000122</u>			Date: <u>3/7/12</u>					
Location: <u>SOUTH WEST of LAWREN</u>						Starting Water Level (ft. below BMP):					
Owner:						Casing Elevation (ft.):					
Measuring Point (MP) of Well:						Starting Water Level (ft. BGL):					
Casing Diameter (in ID):						Total Depth (ft. BGL):					
Sampled by: <u>KSD</u>						Casing Volume (gal.):					
QUALITY ASSURANCE											
METHODS (describe):											
Cleaning Equipment: <u>Dedicated Equipment, DI water, and Liquid-Nox</u>											
Purging: <u>Wet pump</u>						Sampling: <u>Static</u>					
Disposal of Discharged Water:											
INSTRUMENTS (Indicate make, model, I.D.)											
Thermometer: <u>Horiba U-32</u>											
pH Meter: <u>Horiba U-32</u>					Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>						
Conductivity Meter: <u>Horiba U-32</u>					Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>						
Turbidimeter: <u>Horiba U-32</u>					Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>						
ORP Meter: <u>Horiba U-32</u>					Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>						
DO Meter: <u>Horiba U-32</u>					Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>						
TDS Meter: <u>Horiba U-32</u>					Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>						
Other:											
SAMPLING MEASUREMENTS											
Time	Sam. Vol. (L)	Purge Rate (L/m)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	Turbidity & Sediment (NTU)	ORP (mV)	DO (mg/L)	TDS (µg/L)	Remarks
1154	-	12	-	-	-	-	-	-	-	-	New Spring open
1206	120	1.0	23.14	6.04	1910	1000	0.7	122	2.96	1.22	switched to PL
1211	125	1.0	23.13	6.04	1910	↓	0.5	116	2.90	1.22	
1216	130	1.0	23.00	6.05	1900	↓	0.7	109	3.19	1.21	
SAMPLE INVENTORY											
Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)					
Time	Volume	Composition (G, P)	No.								
1221	500ml	P	1		HNO <sub>3</sub>	Arsenic					
Comments:					<b>PASTOR, BEHLING &amp; WHEELER, LLC</b> 620 E. Airline Victoria, Texas 77901 Phone: (361) 673-6442 Fax: (361) 673-6443						

W-41- 20140424-07

GROUNDWATER SAMPLING RECORD						PAGE 1 of 1					
State Well ID:			District Well ID: <u>GW 237</u>			Date: <u>3/7/12</u>					
Location: <u>McCoy Rd</u>						Starting Water Level (ft. below BMP):					
Owner:						Casing Stickup (ft.):					
Measuring Point (MP) of Well:						Starting Water Level (ft. BGL):					
Casing Diameter (in ID):						Total Depth (ft. BGL):					
Sampled by: <u>KBO</u>						Casing Volume (gal):					
QUALITY ASSURANCE											
METHODS (describe):											
Cleaning Equipment: <u>Dedicated Equipment, DI water, and Liquid-Nox</u>											
Purging: <u>WGL Spigot</u>						Sampling: <u>grab</u>					
Disposal of Discharged Water: <u>to ground</u>											
INSTRUMENTS (indicate make, model, I.D.)											
Thermometer: <u>Horiba U-52</u>											
pH Meter: <u>Horiba U-52</u>						Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>					
Conductivity Meter: <u>Horiba U-52</u>						Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>					
Turbidimeter: <u>Horiba U-52</u>						Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>					
ORP Meter: <u>Horiba U-52</u>						Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>					
DO Meter: <u>Horiba U-52</u>						Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>					
TDS Meter: <u>Horiba U-52</u>						Field Calibration: <u>Auto Calibration - 100-4 Horiba Calibration Solution</u>					
Other:											
SAMPLING MEASUREMENTS											
Time	Cum. Vol. (L)	Purge Rate (L/min)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	Turbidity & Sediment (NTU)	ORP (mV)	DO (mg/L)	TDS (µg/L)	Remarks
1232	.	6	.	.	.	.	.	.	.	.	opened well spigot
1242	60	1.0	22.80	6.51	1520	180000	0.4	163	4.20	0.974	switched to FC
1247	65	↓	22.82	6.15	1520	↓	0.2	153	4.03	0.974	
1252	70	↓	22.81	6.15	1520	↓	0.3	153	4.06	0.974	
SAMPLE INVENTORY											
Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)					
Time	Volume	Composition (G, P)	No.								
1257	500mL	P	1	N	HNO <sub>3</sub>	Arsenic					
Comments: <u>Dup on this well</u> <u>UG60-1</u>					<b>PASTOR, BEHLING &amp; WHEELER, LLC</b> 620 E. Airline Victoria, Texas 77801 Phone: (361) 673-6442 Fax: (361) 673-6449						

WQM - 20140428 - 01

Received  
4-28-14  
In the office of

**Victoria City County Health Department**  
2805 N. Navarro, Victoria, TX 77901  
361-578-6281



**WATER BACTERIOLOGY**

CERTIFICATION NO.  
T104704389-11-2

VCGCD  
2805 N Navarro St Ste 210  
Victoria, TX 77901  
(361) 579-6863

*DISCLAIMER: The results reported on this laboratory report relate only to the water sample taken on the recorded collection date at the sample site identified in this report. The laboratory test is conducted in a National Environmental Laboratory Accreditation Committee (NELAC) accredited laboratory and the laboratory results are in compliance with NELAC Standards unless otherwise stated. This laboratory report shall not be reproduced in full without written approval by the Victoria City-County Health Department Water Bacteriology Laboratory Manager.*

Date Received 4/23/2014 Report Date 4/24/2014

SAMPLE IDENTIFICATION		SAMPLE RESULTS
SAMPLE NUMBER	VCG-0414230501	Not Found
PUBLIC WATER SYSTEM ID		
PUBLIC WATER SYSTEM NAME		
COUNTY		

Sample Site / COLLECTION DATE and Time		
Date/Time Collected	4/23/2014	9:15 AM
Sample Site	13323 Nursery DR WQS #01	
Sampler Name	TF	Phone (361) 579-6863
System Type	Sample Type	WaterSource
Private	Raw: well #	Ground Water

DISINFECTANT RESIDUAL mg/L  
Number of samples collected on this date 2

Date Tested 4/23/2014 Time Tested 2:57:00 PM

LABORATORY REPORT		OtherType
COLIFORM ORGANISMS:		<input type="checkbox"/> This sample is not in compliance with NELAC standards. Please ensure all fields are completed.  The results of this test relate only to the sample analyzed.  Test method used: Colilert Presence/Absence
	NOT FOUND FOUND	
Total Coliform	<input checked="" type="checkbox"/> <input type="checkbox"/>	
Fecal Coliform	<input checked="" type="checkbox"/> <input type="checkbox"/>	
E. coli	<input checked="" type="checkbox"/> <input type="checkbox"/>	
Repeat	<input type="checkbox"/>	
Unsuitable	<input type="checkbox"/>	
		Analyst Initials NR

*Naemi Ramo*

WQM - 20140428 - 02

Received  
4-28-14 PM  
In the office of

**Victoria City County Health Department**  
2805 N. Navarro, Victoria, TX 77901  
361-578-6281



**WATER BACTERIOLOGY**  
CERTIFICATION NO.  
T104704389-11-2

VCGCD  
2805 N Navarro St Ste 210  
Victoria, TX 77901  
(361) 579-6863

*DISCLAIMER: The results reported on this laboratory report relate only to the water sample taken on the recorded collection date at the sample site identified in this report. The laboratory test is conducted in a National Environmental Laboratory Accreditation Committee (NELAC) accredited laboratory and the laboratory results are in compliance with NELAC Standards unless otherwise stated. This laboratory report shall not be reproduced in full without written approval by the Victoria City-County Health Department Water Bacteriology Laboratory Manager.*

Date Received 4/23/2014

Report Date 4/24/2014

**SAMPLE IDENTIFICATION**

**SAMPLE RESULTS**

SAMPLE NUMBER VCG-0414230502  
PUBLIC WATER SYSTEM ID  
PUBLIC WATER SYSTEM NAME  
COUNTY

**Not Found**

**Sample Site / COLLECTION DATE and Time**

Date/Time Collected 4/23/2014 10:00 AM  
Sample Site 13323 Nursery DR WQS #02  
Sampler Name TF Phone (361) 579-6863  
System Type Sample Type WaterSource  
Private Raw: well # Ground Water

DISINFECTANT RESIDUAL mg/L

Number of samples collected on this date 2

Date Tested 4/23/2014 Time Tested 2:57:00 PM

**LABORATORY REPORT**

COLIFORM ORGANISMS:

NOT FOUND FOUND  
Total Coliform    
Fecal Coliform    
E. coli    
Repeat   
Unsuitable

OtherType

This sample is not in compliance with NELAC standards. Please ensure all fields are completed.

The results of this test relate only to the sample analyzed.

Test method used: Colilert Presence/Absence

Analyst Initials NR

*Naemi Ramos*

B Environmental, LLC.  
2713 Houston Hwy.  
Victoria TX 77901

BatchNo: 17836

Page 3 of 4

**Sample Report Information**



Sample ID: S141471146	Client ID: WQS-20140527-01	Sampler: Client
-----------------------	----------------------------	-----------------

Client: VCGCD - Tim Faltysek      Batch No: 17836  
 Study: Water      Sampled: 5/27/2014      11:20 AM  
 Project: Nursery Drive  
 Location: Msc.      Type: Grab  
 Notes:      Matrix: Water

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
---------	--------	-------	--------	---------	--------------------	-----	-----	----	------	-------	------------

E-COLI <1 MPN /100 Coliort-18 E Ramirez 5/27/2014 11:45  B- E Cert. # T104704328-14-9



**QA Summary Report**

Parameter	ID	Result	Ref Value	Amt Added	LOQ	Qualifier	Control	Flag	Comments
-----------	----	--------	-----------	-----------	-----	-----------	---------	------	----------

**Flag and Qualifier Legend**

- Negative - Result Detected      MDL = Method Detection Limit      DF = Dilution Factor
- Caution - Problem Detected      LOQ = Limit of Quantitation      J = Analyte detected between MDL and LOQ
- Warning - Null Value      S = surrogate standard out of limit      H = sample out of hold time

MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan  
 Monday, June 02, 2014      B Environmental - LDMS QA Report Summary

Note:

THANK YOU!!





Batch # 17836

# B Environmental Laboratory

# Chain Of Custody Record

TEMP UN-C: 14.3

THERM ID# 3

TEMP Corr: 14.3

20140603-01  
WQM

<b>Customer Information</b>		<b>Report Information</b>	
Name: <i>Tim Faltysel</i>	Attention:	Phone: <i>361-579-6863</i>	FAX:
Address: <i>UCGCD</i>	Project: <i>Nursery Drive</i>	EMAIL:	
Comments:		Requested Analysis	Completed By Laboratory

Sample Information			Matrix	Container			Preservative	Custody Seals Present Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Intact Yes <input type="checkbox"/> No <input type="checkbox"/> LAB Sample Number		
Collected By: <i>Jim Falgout</i>	Collected		DW - Drinking H2O S - Solid WW - Waste H2O SL - Sludge L - Liquid W - Water	TYPE	NUMBER	Size				
Client / Field Sample ID	Date	Time	C = Composite G = Grab							
<i>WQS-20140527-01</i>	<i>05-27-2014</i>	<i>11:30AM</i>	<i>G</i>	<i>W</i>	<i>P</i>	<i>100 ml</i>	<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____	<i>X</i>	<i>E. coli</i>	<i>S141471146</i>
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____			
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____			
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____			
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____			
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL <input type="checkbox"/> _____			

Required Turnaround:  Routine (6-10 days)     Expedite / Rush:  24 hrs     48 hrs     3 days     5 days     Other \_\_\_\_\_

REMARKS: *Onice, not taken*

Surcharge will apply to RUSH TAT Authorized BY: \_\_\_\_\_ Container Type: P=Plastic, G=Glass, V=Voa, O=Other    Carrier ID: \_\_\_\_\_

Relinquished By: <i>Jim Falgout</i>	Date: <i>5-27-2014</i>	Time: <i>11:45</i>	Received By: <i>USC</i>	Date: <i>5-27-14</i>	Time: <i>11:45</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

BatchNo: 17836

# SAMPLE REPORT



T104704328-14-9

**Business**

VCGCD - Tim Faltysek  
2805 N. Navarro  
Victoria TX 77901  
Att: Tim Faltysek



**Laboratory**

B Environmental, LLC.  
2713 Houston Hwy.  
Victoria TX 77901  
ph. 361-572-8224

**Reference Information**

Project: Nursery Drive  
Printed: Monday, June 02, 2014

Re: VCGCD - Tim Faltysek

Dear: Tim Faltysek

Attached are the results for sample(s) received on 5/27/2014

The analytical results relate only to the samples tested.

All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 4 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director



B Environmental, LLC. 2713 Houston Hwy. Victoria TX 77901

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B Environmental, LLC.  
2713 Houston Hwy.

BatchNo: 17836

Page 2 of 4

Victoria TX 77901

Batch No:

# Sample Receipt Checklist

Date Received:

Project  Received By:

Login completed by:

- YES  NO  Not Present
- YES  NO  Not Present
- YES  NO  Not Present
- YES  NO
- YES  NO
- YES  NO
- YES  NO
- YES  NO
- YES  NO
- YES  NO
- YES  NO  >0 <6 °C On Ice
- YES  NO  No VOA Vials submitted
- YES  NO  Not Applicable

\*TEMP  pH Adjusted?  Checked By

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted  Person Contacted   
Contacted by:  Date Contacted:

Regarding

Comments

Corrective Action





**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: NW-000333 Date: 7-1-2014

Location: 2782 Mallett Dr Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Arthur Kenne Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: 2.2 Starting Water Level (ft. BGL): 39.3

Casing Diameter (in ID): 4 Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltysell Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH10.0-1525

Conductivity: YSI 556 MPS Field Calibration: 683 8.974 µmhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

	Check Solution	Field Reading
Temperature	<u>21 -25</u>	<u>23.19</u>
pH	<u>6.8 - 7.2</u>	<u>7.14</u>
Conductivity	<u>7620-8010</u>	<u>7892</u>
ORP	<u>212-242</u>	<u>217.4</u>

Other: \_\_\_\_\_


**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>9:22A</u>	<u>4359.59</u>	<u>6.869/min</u>	-	-	-	-	-	-	-	
<u>9:31am</u>			<u>23.80</u>	<u>6.70</u>	<u>1535</u>		<u>102.6</u>		<u>1.020</u>	
<u>9:33am</u>			<u>23.71</u>	<u>6.70</u>	<u>1530</u>		<u>102.4</u>		<u>1.020</u>	
<u>9:36A</u>			<u>23.72</u>	<u>6.70</u>	<u>1530</u>		<u>102.8</u>		<u>1.020</u>	
<u>9:39A</u>			<u>23.68</u>	<u>6.70</u>	<u>1529</u>		<u>103.5</u>		<u>1.020</u>	
<u>9:43A</u>			<u>23.71</u>	<u>6.69</u>	<u>1530</u>		<u>104.2</u>		<u>1.020</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: Tim Faltysell 7-3-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: NW-000030 Date: 7-2-2014

Location: 1895 Kemper City Road Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Colon Outcrop / Gary D. Whitout Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: 2.0' Starting Water Level (ft. BGL): 50.1

Casing Diameter (in ID): 4 Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltsch Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH10.0-1525

Conductivity: YSI 556 MPS Field Calibration: 6803 8,974  $\mu$ mhos

ORP Meter: YSI 556 MPS Field Calibration: 7000 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

	Check Solution	Field Reading
Temperature	<u>21-25</u>	<u>23.19</u>
pH	<u>6.8-7.2</u>	<u>7.14</u>
Conductivity	<u>7430-8010</u>	<u>7892</u>
ORP	<u>222-242</u>	<u>217.4</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>10:46AM</u>	<u>5/39.105</u>	<u>688g/m</u>	-	-	-	-	-	-	-	
<u>10:58AM</u>			<u>23.76</u>	<u>6.90</u>	<u>842</u>		<u>135.0</u>		<u>0.561</u>	
<u>11:01AM</u>			<u>23.69</u>	<u>6.98</u>	<u>839</u>		<u>122.3</u>		<u>0.559</u>	
<u>11:04AM</u>			<u>23.66</u>	<u>6.95</u>	<u>838</u>		<u>120.1</u>		<u>0.559</u>	
<u>11:07AM</u>			<u>23.68</u>	<u>6.90</u>	<u>838</u>		<u>119.8</u>		<u>0.559</u>	
<u>11:10AM</u>			<u>23.67</u>	<u>6.80</u>	<u>839</u>		<u>120.4</u>		<u>0.559</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: Tim Faltsch 7-3-2014



**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: **NW-000509** Date: **7-2-2014**

Location: **10250 State HWY 185** Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: **David Loa** Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: **Tim Faltysel** Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: **N/A**

Purging: **Purged from faucet** Sampling: **Arsenic**

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: **PH-7-1500/PH4-1460/PH10.0-1525**

Conductivity: YSI 556 MPS Field Calibration: **6803 8,914  $\mu$ mhos**

ORP Meter: YSI 556 MPS Field Calibration: **7800 +229 mV**

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

	Check Solution	Field Reading
Temperature	21 - 25	23.15
pH	6.8 - 7.2	7.14
Conductivity	7630 - 8010	7892
ORP	212 - 242	217.4

Other: \_\_\_\_\_

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
11:20am	5/54.75	5.47 g/m	-	-	-	-	-	-	-	
13:23pm			23.63	6.90	1745		188.3		1.165	
13:26pm			23.15	6.91	1763		147.2		1.188	
13:29pm			23.15	6.76	1758		100.7		1.185	
13:32pm			23.12	6.33	1758		74.3		1.185	
13:35pm			23.23	5.91	1737		61.0		1.169	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
1:34pm	250ml	C	1	N	HNO3	Arsenic

Comments: **Jim Faltysel 7-3-2014**



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

WQM - 20140710 - 01

B Environmental, LLC.  
2713 Houston Hwy.  
Victoria TX 77901

BatchNo: 18997

### Sample Report Information



Sample ID:	S141781316	Client ID:	GW-000235	Sampler:	Client
------------	------------	------------	-----------	----------	--------

Client: VCGCD - Tim Faltysek  
Study: Water

Batch No: 18997  
Sampled: 6/27/2014 9:55 AM

Project: Land Fill Arsenic

Location: Msc.

Type: Grab  
Matrix: Water

Notes:

WQM - 20140627-01

DW-000235 TR

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Arsenic, ICP-MS	0.0051	mg/L	EPA 200.8		7/7/2014 15:50						<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8

### Sample Report Information



Sample ID:	S141781321	Client ID:	NW-000179	Sampler:	Client
------------	------------	------------	-----------	----------	--------

Client: VCGCD - Tim Faltysek  
Study: Water

Batch No: 18997  
Sampled: 6/27/2014 10:18 AM

Project: Land Fill Arsenic

Location: Msc.

Type: Grab  
Matrix: Water

Notes:

WQM - 20140627-02

NW-000179 TR

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Arsenic, ICP-MS	< 0.005	mg/L	EPA 200.8		7/7/2014 15:58						<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8



B Environmental, LLC.

2713 Houston Hwy.

Victoria TX 77901

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Final Report Page 4 of 13  
 B Environmental, LLC.  
 2713 Houston Hwy.  
 Victoria TX 77901

Batch No: 18997

Batch # 18997  
 Page 4 of 13

**Sample Report Information**



Sample ID:	S141781322	Client ID:	NW-000122	Sampler:	Client
------------	------------	------------	-----------	----------	--------

Client: VCGCD - Tim Faltysek  
 Study: Water

Batch No: 18997  
 Sampled: 6/27/2014 10:35 AM

Project: Land Fill Arsenic

Location: Msc.

Type: Grab

Notes:

Matrix: Water

WQM - 20140627-03

NW-000122 TF

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Arsenic, ICP-MS	< 0.005	mg/L	EPA 200.8		7/7/2014 17:10					<input checked="" type="checkbox"/>	DHL Cert No. T104704211-12-8

**Sample Report Information**



Sample ID:	S14178132A	Client ID:	NW-000425	Sampler:	Client
------------	------------	------------	-----------	----------	--------

Client: VCGCD - Tim Faltysek  
 Study: Water

Batch No: 18997  
 Sampled: 6/27/2014 10:48 AM

Project: Land Fill Arsenic

Location: Msc.

Type: Grab

Notes:

Matrix: Water

WQM - 20140627-04

NW-000425 TF

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Arsenic, ICP-MS	< 0.005	mg/L	EPA 200.8		7/7/2014 17:16					<input checked="" type="checkbox"/>	DHL Cert No. T104704211-12-8



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B Environmental, LLC.  
2713 Houston Hwy.  
Victoria TX 77901

BatchNo: 18997

Page 5 of 13

### Sample Report Information



Sample ID:	S14178132B	Client ID:	GW-000237	Sampler:	Client
------------	------------	------------	-----------	----------	--------

Client: VCGCD - Tim Faltysek  
Study: Water

Batch No: 18997  
Sampled: 6/27/2014 11:30 AM

Project: Land Fill Arsenic

Location: Msc.

Type: Grab  
Matrix: Water

Notes:

WQM - 20140627-05

Case Narrative:  
LW-000237 TV

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Arsenic, ICP-MS	< 0.005	mg/L	EPA 200.8		7/7/2014 17:22					<input checked="" type="checkbox"/>	DHL Cert No. T104704211-12-8



### QA Summary Report

Parameter	ID	Result	Ref Value	Amt Added	LOQ	Qualifier	Control	Flag	Comments
-----------	----	--------	-----------	-----------	-----	-----------	---------	------	----------

#### Flag and Qualifier Legend

- Negative - Result Detected
  - Caution - Problem Detected
  - Warning - Null Value
  - MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan
- MDL = Method Detection Limit      DF = Dilution Factor  
 LOQ = Limit of Quantitation      J = Analyte detected between MDL and LOQ  
 S = surrogate standard out of limit      H = sample out of hold time

Thursday, July 10, 2014

B Environmental - LDMS QA Report Summary

Note:

THANK YOU HAVE A GREAT DAY!!



**DHL Analytical, Inc.**

Date: 09-Jul-14

<b>CLIENT:</b> B-Environmental	<b>Client Sample ID:</b> GW-000235
<b>Project:</b> VC GCD	<b>Lab ID:</b> 1407003-01
<b>Project No:</b> Land Fill Arsenic (18997)	<b>Alternate ID:</b> S141781316
<b>Lab Order:</b> 1407003	<b>Collection Date:</b> 06/27/14 09:55 AM
	<b>Matrix:</b> AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TOTAL RECOVERABLE METALS: ICP-MS</b>		<b>E200.8</b>					Analyst: SW
Arsenic	0.00510	0.00200	0.00500		mg/L	1	07/07/14 03:50 PM

<b>Qualifiers:</b>	* Value exceeds TCLP Maximum Concentration Level	B Analyte detected in the associated Method Blank
	C Sample Result or QC discussed in the Case Narrative	DF Dilution Factor
	E TPH pattern not Gas or Diesel Range Pattern	J Analyte detected between MDL and RL
	MDL Method Detection Limit	ND Not Detected at the Method Detection Limit
	RL Reporting Limit	S Spike Recovery outside control limits

**DHL Analytical, Inc.**

Date: 09-Jul-14

<b>CLIENT:</b> B-Environmental	<b>Client Sample ID:</b> NW-000179
<b>Project:</b> VC GCD	<b>Lab ID:</b> 1407003-02
<b>Project No:</b> Land Fill Arsenic (18997)	<b>Alternate ID:</b> S141781321
<b>Lab Order:</b> 1407003	<b>Collection Date:</b> 06/27/14 10:18 AM
	<b>Matrix:</b> AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TOTAL RECOVERABLE METALS: ICP-MS</b>		<b>E200.8</b>					<b>Analyst: SW</b>
Arsenic	0.00244	0.00200	0.00500	J	mg/L	1	07/07/14 03:56 PM

<b>Qualifiers:</b>	* Value exceeds TCLP Maximum Concentration Level	B Analyte detected in the associated Method Blank
	C Sample Result or QC discussed in the Case Narrative	DF Dilution Factor
	E TPH pattern not Gas or Diesel Range Pattern	J Analyte detected between MDL and RL
	MDL Method Detection Limit	ND Not Detected at the Method Detection Limit
	RL Reporting Limit	S Spike Recovery outside control limits

**DHL Analytical, Inc.**

Date: 09-Jul-14

<b>CLIENT:</b> B-Environmental	<b>Client Sample ID:</b> NW-000122
<b>Project:</b> VC GCD	<b>Lab ID:</b> 1407003-03
<b>Project No:</b> Land Fill Arsenic (18997)	<b>Alternate ID:</b> S141781322
<b>Lab Order:</b> 1407003	<b>Collection Date:</b> 06/27/14 10:35 AM
	<b>Matrix:</b> AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TOTAL RECOVERABLE METALS: ICP-MS</b>		<b>E200.8</b>					<b>Analyst: SW</b>
Arsenic	ND	0.00200	0.00500		mg/L	1	07/07/14 05:10 PM

<b>Qualifiers:</b>	* Value exceeds TCLP Maximum Concentration Level	B Analyte detected in the associated Method Blank
	C Sample Result or QC discussed in the Case Narrative	DF Dilution Factor
	E TPH pattern not Gas or Diesel Range Pattern	J Analyte detected between MDL and RL
	MDL Method Detection Limit	ND Not Detected at the Method Detection Limit
	RL Reporting Limit	S Spike Recovery outside control limits

WQM -

20140710-01

**DHL Analytical, Inc.**

Date: 09-Jul-14

CLIENT: B-Environmental  
Project: VC GCD  
Project No: Land Fill Arsenic (18997)  
Lab Order: 1407003

Client Sample ID: NW-000425  
Lab ID: 1407003-04  
Alternate ID: S14178132A  
Collection Date: 06/27/14 10:48 AM  
Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TOTAL RECOVERABLE METALS: ICP-MS</b>		<b>E200.8</b>		Analyst: SW			
Arsenic	0.00293	0.00200	0.00500	J	mg/L	1	07/07/14 05:16 PM

- Qualifiers:**
- \* Value exceeds TCLP Maximum Concentration Level
  - C Sample Result or QC discussed in the Case Narrative
  - E TPH pattern not Gas or Diesel Range Pattern
  - MDL Method Detection Limit
  - RL Reporting Limit
  - B Analyte detected in the associated Method Blank
  - DF Dilution Factor
  - J Analyte detected between MDL and RL
  - ND Not Detected at the Method Detection Limit
  - S Spike Recovery outside control limits

**DHL Analytical, Inc.**

Date: 09-Jul-14

<b>CLIENT:</b>	B-Environmental	<b>Client Sample ID:</b>	GW-000237
<b>Project:</b>	VC GCD	<b>Lab ID:</b>	1407003-05
<b>Project No:</b>	Land Fill Arsenic (18997)	<b>Alternate ID:</b>	S14178132B
<b>Lab Order:</b>	1407003	<b>Collection Date:</b>	06/27/14 11:30 AM
		<b>Matrix:</b>	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TOTAL RECOVERABLE METALS: ICP-MS</b>		<b>E200.8</b>					<b>Analyst: SW</b>
Arsenic	ND	0.00200	0.00500		mg/L	1	07/07/14 05:22 PM

<b>Qualifiers:</b>	* Value exceeds TCLP Maximum Concentration Level	B Analyte detected in the associated Method Blank
	C Sample Result or QC discussed in the Case Narrative	DF Dilution Factor
	E TPH pattern not Gas or Diesel Range Pattern	J Analyte detected between MDL and RL
	MDL Method Detection Limit	ND Not Detected at the Method Detection Limit
	RL Reporting Limit	S Spike Recovery outside control limits

Page 5 of 5

DHL Analytical, Inc.

Date: 09-Jul-14

CLIENT: B-Environmental  
 Work Order: 1407003  
 Project: VC GCD

**ANALYTICAL QC SUMMARY REPORT**

RunID: ICP-MS3\_I40707A

The QC data in batch 64509 applies to the following samples: 1407003-01A, 1407003-02A, 1407003-03A, 1407003-04A, 1407003-05A

Sample ID MB-64509	Batch ID: 64509	TestNo: E200.8	Units: mg/L
SampType: MBLK	Run ID: ICP-MS3_140707A	Analysis Date: 7/7/2014 2:31:00 PM	Prep Date: 7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.00500								

Sample ID LCS-64509	Batch ID: 64509	TestNo: E200.8	Units: mg/L
SampType: LCS	Run ID: ICP-MS3_140707A	Analysis Date: 7/7/2014 2:37:00 PM	Prep Date: 7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.200	0.00500	0.200	0	99.8	85	115			

Sample ID LCSD-64509	Batch ID: 64509	TestNo: E200.8	Units: mg/L
SampType: LCSD	Run ID: ICP-MS3_140707A	Analysis Date: 7/7/2014 2:43:00 PM	Prep Date: 7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.202	0.00500	0.200	0	101	85	115	1.10	15	

Sample ID 1407002-01C SD	Batch ID: 64509	TestNo: E200.8	Units: mg/L
SampType: SD	Run ID: ICP-MS3_140707A	Analysis Date: 7/7/2014 3:01:00 PM	Prep Date: 7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	0.0250	0	0.00380				0	10	

Sample ID 1407002-01C PDS	Batch ID: 64509	TestNo: E200.8	Units: mg/L
SampType: PDS	Run ID: ICP-MS3_140707A	Analysis Date: 7/7/2014 4:02:00 PM	Prep Date: 7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.203	0.00500	0.200	0.00380	99.6	75	125			

Sample ID 1407002-01C MS	Batch ID: 64509	TestNo: E200.8	Units: mg/L
SampType: MS	Run ID: ICP-MS3_140707A	Analysis Date: 7/7/2014 4:08:00 PM	Prep Date: 7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.210	0.00500	0.200	0.00380	103	70	130			

Sample ID 1407002-01C MSD	Batch ID: 64509	TestNo: E200.8	Units: mg/L
SampType: MSD	Run ID: ICP-MS3_140707A	Analysis Date: 7/7/2014 4:14:00 PM	Prep Date: 7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0.00380	101	70	130	2.12	15	

- Qualifiers:
- B Analyte detected in the associated Method Blank
  - J Analyte detected between MDL and RL
  - ND Not Detected at the Method Detection Limit
  - RL Reporting Limit
  - J Analyte detected between SDL and RL
  - DF Dilution Factor
  - MDL Method Detection Limit
  - R RPD outside accepted control limits
  - S Spike Recovery outside control limits
  - N Parameter not NELAC certified



**tal Laboratory**

**Chain Of Custody Recor**

Batch #: 18997

EMP UN-C26.1 Page 1 of 1

2713 Houston Hwy, Victoria, Texas 77901 Ph: (361) 572-8224

<b>Customer / Report Information</b>		<b>Billing Information</b> <input type="checkbox"/> Check box if Billing is the same as Report Information		<b>THERM ID#3</b>	<b>TEMP Corr: 26.1</b>
Name: <b>VCGLD</b>		Address: <b>2805 N NAVARRO ST. 210</b>		Phone: <b>361-579-6863</b>	FAX:
Attention: <b>TIM FATHSELL</b>		Attention: <b>TIM ANDRUSS</b>		EMAIL: <b>tim.fathsell@vcgcd.org</b>	
Address: <b>2805 N Navarro St, St. 210</b>		Project: <b>LAND FILL CONSENT</b>		Requested Analysis	
Victoria, TX 77901		Comments:		Completed By Laboratory	

WQM - 20140710 - 01

Sample Information			Matrix	Container			Preservative		Custody Seals Present	
Client / Field Sample ID	Collected		G = Grab C = Composite	TYPE	NUMBER	Size	H2SO4 H3PO4 ICE	HNO3 NaOH HCL	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
	Date	Time							Intact	No <input checked="" type="checkbox"/>
BW-000235 WQM-20140627-01	6-27-14	9:55AM	G	W	P	250ml	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NW-000299 WQM-20140627-02	6-27-14	10:18AM	G	W	P	250ml	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NW-000122 WQM-20140627-03	6-27-14	10:35AM	G	W	P	250ml	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	<input type="checkbox"/>	<input checked="" type="checkbox"/>
NW-000425 WQM-20140627-04	6-27-14	10:48AM	G	W	P	250ml	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BW-000237 WQM-20140627-05	6-27-14	11:30AM	G	W	P	250ml	<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	<input type="checkbox"/>	<input checked="" type="checkbox"/>
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> H3PO4 <input type="checkbox"/> ICE	<input type="checkbox"/> HNO3 <input type="checkbox"/> NaOH <input type="checkbox"/> HCL	<input type="checkbox"/>	<input type="checkbox"/>

Required Turnaround:  Routine (6-10 days) Expedite / Rush:  24 hrs  48 hrs  3 days  5 days  Other \_\_\_\_\_ REMARKS:

Surcharge will apply to RUSH TAT Authorized BY: \_\_\_\_\_ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: \_\_\_\_\_

Relinquished By: <b>Jim Fathsell</b>	Date: <b>6-27-14</b>	Time: <b>12:00pm</b>	Received By: <b>USPO</b>	Date: <b>6-27-14</b>	Time: <b>12:00</b>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

B Environmental, LLC.  
2713 Houston Hwy.

BatchNo: 18997

Page 2 of 13

Victoria TX 77901

Batch No: 18997

### Sample Receipt Checklist

Date Received: 6/27/2014

Project: Land Fill Arsenic Received By: Shimek

Login completed by: Shimek 6/27/2014  
Signature LoginDate:

Carrier Name: Walk In

- Shipping container/cooler in good condition?  YES  NO  Not Present
- Custody seals intact on shipping container/cooler?  YES  NO  Not Present
- Custody seals intact on sample bottles?  YES  NO  Not Present
- Chain of Custody present?  YES  NO
- Chain of Custody signed when relinquished and received  YES  NO
- Chain of Custody agrees with sample labels?  YES  NO
- Samples in proper container/bottles?  YES  NO
- Sample containers intact?  YES  NO
- Sufficient sample volume for indicated tests?  YES  NO
- All samples received within holding times?  YES  NO
- Container/Temp Blank - temperature in compliance?  YES  NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm?  YES  NO  No VOA Vials submitted
- Water - pH acceptable upon receipt?  YES  NO  Not Applicable

\*TEMP 26.1/26.1 pH Adjusted? no Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted Person Contacted  
Contacted by: Date Contacted:

Regarding  
Comments: No Ice, Therm #3, pH lot 1-145-8, As Preserved with HNO3 lot 1-153-1  
Corrective Action



BatchNo: 18997

**SAMPLE REPORT**

T104704328-14-9

**Business**

VCGCD - Tim Faltysek  
2805 N. Navarro  
Victoria TX 77901  
Att: Tim Faltysek

**Laboratory**

B Environmental, LLC.  
2713 Houston Hwy.  
Victoria TX 77901  
ph. 361-572-8224

**Reference Information**

Project: Land Fill Arsenic  
Printed: Thursday, July  
10, 2014

Re: VCGCD - Tim Faltysek

Dear: Tim Faltysek

Attached are the results for sample(s) received on 6/27/2014

The analytical results relate only to the samples tested.

All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 13 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224  
or Fax us at (361) 572-4115

Respectfully Submitted,

*Kori Vahrenkamp P.P.*  
Kevin Baros

Laboratory Director



B Environmental, LLC. 2713 Houston Hwy.

Victoria TX 77901

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**DHL Analytical, Inc.**

Date: 09-Jul-14

**CLIENT:** B-Environmental  
**Project:** VC GCD  
**Lab Order:** 1407003

**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Metals analysis by method E200.8.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

B Environmental, LLC.  
2713 Houston Hwy.

BatchNo: 19214

Page 3 of 7

Victoria TX 77901

**Sample Report Information**



Sample ID:	S141831438	Client ID:	NW-000508 WQM-20140702-01	Sampler:	Client
------------	------------	------------	---------------------------	----------	--------

Client: VCGCD - Tim Faltysek  
Study: Water

Batch No: 19214  
Sampled: 7/2/2014 1:34 PM

Project: Arsenic-Landfill

Location: Msc.

Type: Grab

Notes:

Matrix: Water

Case Narrative:

Analyte	Result	Units	Method	Analyst	Date/Time Analyzed	LOQ	MDL	DF	Qual	S/Out	Laboratory
Arsenic, ICP-MS	< 0.005	mg/L	EPA 200.8		7/7/2014 17:40						<input checked="" type="checkbox"/> DHL Cert No. T104704211-12-8



**QA Summary Report**

Parameter	ID	Result	Ref Value	Amt Added	LOQ	Qualifier	Control	Flag	Comments
-----------	----	--------	-----------	-----------	-----	-----------	---------	------	----------

**Flag and Qualifier Legend**

- Negative - Result Detected
- Caution - Problem Detected
- Warning - Null Value
- MS, MSD, RPD- Failure may occur due to matrix interference, data released per QA plan
- MDL = Method Detection Limit
- DF = Dilution Factor
- LOQ = Limit of Quantitation
- J = Analyte detected between MDL and LOQ
- S = surrogate standard out of limit
- H = sample out of hold time

Monday, July 14, 2014

B Environmental - LDMS QA Report Summary

Note:

THANK YOU HAVE A GREAT DAY!!



**DHL Analytical, Inc.**

Date: 11-Jul-14

CLIENT: B-Environmental  
Project: VC GCD  
Lab Order: 1407035

**CASE NARRATIVE**

Samples were analyzed using the methods outlined in the following references:

Metals by E200.8.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

**DHL Analytical, Inc.**

Date: 11-Jul-14

CLIENT: B-Environmental  
 Project: VC GCD  
 Project No: Arsenic-Landfill (19214)  
 Lab Order: 1407035

Client Sample ID: NW-000508  
 Lab ID: 1407035-01  
 Alternate ID: S141831438  
 Collection Date: 07/02/14 01:34 PM  
 Matrix: AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
<b>TOTAL RECOVERABLE METALS: ICP-MS</b>		<b>E200.8</b>		Analyst: SW			
Arsenic	ND	0.00200	0.00500		mg/L	1	07/07/14 05:40 PM

Qualifiers: \* Value exceeds TCLP Maximum Concentration Level  
 B Analyte detected in the associated Method Blank  
 C Sample Result or QC discussed in the Case Narrative  
 DF Dilution Factor  
 E TPH pattern not Gas or Diesel Range Pattern  
 J Analyte detected between MDL and RL  
 MDL Method Detection Limit  
 ND Not Detected at the Method Detection Limit  
 RL Reporting Limit  
 S Spike Recovery outside control limits

BatchNo: 19214

**SAMPLE REPORT**

T104704328-14-9

**Business**

VCGCD - Tim Faltysek  
2805 N. Navarro  
Victoria TX 77901  
Att: Tim Faltysek

**Laboratory**

B Environmental, LLC.  
2713 Houston Hwy.  
Victoria TX 77901  
ph. 361-572-8224

**Reference Information**

Project: Arsenic-Landfill

Printed: Monday, July  
14, 2014

Re: VCGCD - Tim Faltysek

Dear: Tim Faltysek

Attached are the results for sample(s) received on 7/2/2014

The analytical results relate only to the samples tested.

All supporting quality data meets the requirements of NELAC unless noted in the case narrative section of the report.

This report contains 7 pages (including the cover page)

If you have any questions concerning this report, please do not hesitate to call (361) 572-8224 or Fax us at (361) 572-4115

Respectfully Submitted,

Kevin Baros

Laboratory Director



B Environmental, LLC.

2713 Houston Hwy.

Victoria TX 77901

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B Environmental, LLC.  
2713 Houston Hwy.

BatchNo: 19214

Page 2 of 7

Victoria TX 77901

Batch No: 19214

### Sample Receipt Checklist

Date Received: 7/2/2014

Project: Arsenic Landfill Received By: Shimek

Login completed by: Shimek 7/2/2014  
Signature LoginDate:

Carrier Name: Walk In

- Shipping container/cooler in good condition?  YES  NO  Not Present
- Custody seals intact on shipping container/cooler?  YES  NO  Not Present
- Custody seals intact on sample bottles?  YES  NO  Not Present
- Chain of Custody present?  YES  NO
- Chain of Custody signed when relinquished and received  YES  NO
- Chain of Custody agrees with sample labels?  YES  NO
- Samples in proper container/bottles?  YES  NO
- Sample containers intact?  YES  NO
- Sufficient sample volume for indicated tests?  YES  NO
- All samples received within holding times?  YES  NO
- Container/Temp Blank - temperature in compliance?  YES  NO >0 <6 °C On Ice
- Water - VOA vials have zero headspace? Bubble < 6mm?  YES  NO  No VOA Vials submitted
- Water - pH acceptable upon receipt?  YES  NO  Not Applicable

\*TEMP 25.3/25.3 pH Adjusted? no Checked By L. Vahrenkamp

Any No and/or N/A (not applicable) response must be detailed in the comments section below.

Client contacted: Person Contacted:

Contacted by: Date Contacted:

Regarding:

Comments:

Therm #3, Just Taken, pH lot 1-145-8, As Preserved with HNO3 lot 1-153-1

Corrective Action:



DHL Analytical, Inc.

Date: 11-Jul-14

CLIENT: B-Environmental  
 Work Order: 1407035  
 Project: VC GCD

**ANALYTICAL QC SUMMARY REPORT**

RunID: ICP-MS3\_140707A

The QC data in batch 64509 applies to the following samples: 1407035-01A

Sample ID	MB-64509	Batch ID:	64509	TestNo:	E200.8	Units:	mg/L
SampType:	MBLK	Run ID:	ICP-MS3_140707A	Analysis Date:	7/7/2014 2:31:00 PM	Prep Date:	7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.00500								

Sample ID	LCS-64509	Batch ID:	64509	TestNo:	E200.8	Units:	mg/L
SampType:	LCS	Run ID:	ICP-MS3_140707A	Analysis Date:	7/7/2014 2:37:00 PM	Prep Date:	7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.200	0.00500	0.200	0	99.8	85	115			

Sample ID	LCSD-64509	Batch ID:	64509	TestNo:	E200.8	Units:	mg/L
SampType:	LCSD	Run ID:	ICP-MS3_140707A	Analysis Date:	7/7/2014 2:43:00 PM	Prep Date:	7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.202	0.00500	0.200	0	101	85	115	1.10	15	

Sample ID	1407002-01C SD	Batch ID:	64509	TestNo:	E200.8	Units:	mg/L
SampType:	SD	Run ID:	ICP-MS3_140707A	Analysis Date:	7/7/2014 3:01:00 PM	Prep Date:	7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	0.0250	0	0.00380				0	10	

Sample ID	1407002-01C PDS	Batch ID:	64509	TestNo:	E200.8	Units:	mg/L
SampType:	PDS	Run ID:	ICP-MS3_140707A	Analysis Date:	7/7/2014 4:02:00 PM	Prep Date:	7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.203	0.00500	0.200	0.00380	99.6	75	125			

Sample ID	1407002-01C MS	Batch ID:	64509	TestNo:	E200.8	Units:	mg/L
SampType:	MS	Run ID:	ICP-MS3_140707A	Analysis Date:	7/7/2014 4:08:00 PM	Prep Date:	7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.210	0.00500	0.200	0.00380	103	70	130			

Sample ID	1407002-01C MSD	Batch ID:	64509	TestNo:	E200.8	Units:	mg/L
SampType:	MSD	Run ID:	ICP-MS3_140707A	Analysis Date:	7/7/2014 4:14:00 PM	Prep Date:	7/7/2014

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.205	0.00500	0.200	0.00380	101	70	130	2.12	15	

- Qualifiers:
- B Analyte detected in the associated Method Blank
  - J Analyte detected between MDL and RL
  - ND Not Detected at the Method Detection Limit
  - RL Reporting Limit
  - J Analyte detected between SDL and RL
  - DF Dilution Factor
  - MDL Method Detection Limit
  - R RPD outside accepted control limits
  - S Spike Recovery outside control limits
  - N Parameter not NELAC certified

**Environmental Laboratory**  
 2713 Houston Hwy, Victoria, Texas 77901 Ph: (361) 572-8224

**Chain Of Custody Receipt**

Batch # 19214

TEMP UN-C: 25.3 Page \_\_\_ of \_\_\_

**Customer / Report Information**

**Billing Information**

Check box if Billing is the same as Report Information

THERM ID# 3

TEMP Corr: 25.3

Name: <i>Tim Fathysek</i>	Address: <i>2805 N. Navarro St St 210</i>	Phone: <i>361-579-6863</i>	FAX:
Attention: <i>UCGD</i>	Attention: <i>Victoria Texas 77901</i>	EMAIL:	
Address:	Project: <i>Arsenic - Landfill</i>	Requested Analysis	
Comments:		Completed By Laboratory	

Sample Information			Matrix	Container			Preservative	Custody Seals Present
Collected By: <i>Tim Fathysek</i>	Collected		G = Grab C = Composite	TYPE	NUMBER	Size		
Client / Field Sample ID	Date	Time					Matrix	
<i>NW-000500</i>								Yes <input type="checkbox"/> No <input type="checkbox"/>
<i>Wxm-20140702-01</i>	<i>7-2-2014</i>	<i>1:34pm</i>	<i>G</i>	<i>W</i>	<i>P 1</i>	<i>2.5L</i>	<input type="checkbox"/> H2SO4 <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL	<i>141831438</i>
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL	
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL	
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL	
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL	
							<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> H3PO4 <input type="checkbox"/> NaOH <input type="checkbox"/> ICE <input type="checkbox"/> HCL	

Required Turnaround:  Routine (6-10 days)     Expedite / Rush:     24 hrs     48 hrs     3 days     5 days     Other \_\_\_\_\_ REMARKS:

Surcharge will apply to RUSH TAT Authorized BY: \_\_\_\_\_ Container Type: P=Plastic, G=Glass, V=Voa, O=Other Carrier ID: \_\_\_\_\_

Relinquished By: <i>Levi Tolson</i>	Date: <i>7-2-2014</i>	Time: <i>2:35pm</i>	Received By: <i>Stacy C.</i>	Date: <i>7-2-14</i>	Time: <i>14:35</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

WQM-20140715-01

**GROUNDWATER MONITORING RECORD**

State Well ID: \_\_\_\_\_ District Well ID: AW-000730 Date: 8-14-2014

Location: 5922 FM 446 9705.600W Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Adolph Aorelka 2842.793N Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Jim Falgout Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox

Disposal of Discharged Water: N/A

Purging: Owner purged

Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS

Field Calibration: PH7-1500/PH4-1460/PH40.0-1500

Conductivity: YSI 556 MPS

Field Calibration: 6883 8, 974  $\mu$ mhos

ORP Meter: YSI 556 MPS

Field Calibration: 7800 + 229 mV

DO Meter: YSI 556 MPS

Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS

Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

Other: \_\_\_\_\_

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>23.19</u>
pH	<u>6.8 - 7.2</u>	<u>7.03</u>
Conductivity	<u>7630 - 8010</u>	<u>8005</u>
ORP	<u>212 - 242</u>	<u>219.91</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>1:09 PM</u>	<u>59/1.275</u>	<u>2.369/m</u>								
<u>1:11 PM</u>			<u>25.05</u>	<u>6.25</u>	<u>7018</u>		<u>168.6</u>		<u>4.557</u>	
<u>1:14 PM</u>			<u>24.94</u>	<u>6.53</u>	<u>7024</u>		<u>151.7</u>		<u>4.571</u>	
<u>1:17 PM</u>			<u>24.44</u>	<u>6.42</u>	<u>6962</u>		<u>156.9</u>		<u>4.567</u>	
<u>1:20 PM</u>			<u>24.37</u>	<u>6.29</u>	<u>6943</u>		<u>164.7</u>		<u>4.567</u>	
<u>1:23 PM</u>			<u>24.38</u>	<u>6.20</u>	<u>6946</u>		<u>172.7</u>		<u>4.569</u>	

**SAMPLE INVENTORY**


Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments:

Jim Falgout 8-14-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

GROUNDWATER MONITORING RECORD						PAGE 1 of 1				
State Well ID:		District Well ID: <u>DW-000698</u>			Date: <u>8-18-2014</u>					
Location: <u>5848 FM 446</u>		Starting Water Level (ft. below BMP):								
Owner: <u>ADRIENNE Brandt</u>		Casing Stickup (ft.):								
Measuring Point (MP) of Well:		Starting Water Level (ft. BGL):								
Casing Diameter (In ID):		Total Depth (ft. BGL):								
Sampled by: <u>Tim Faltysiek</u>		Casing Volume (gal.):								
<b>QUALITY ASSURANCE</b>										
<b>METHODS (describe):</b>										
Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox					Disposal of Discharged Water: <u>N/A</u>					
Purging: <u>Purged from faucet 10 min.</u>					Sampling: <u>N/A</u>					
<b>INSTRUMENTS (Indicate make, model, I.D.)</b>										
pH: YSI 556 MPS		Field Calibration: <u>PH9-1500/PH4-1460/PH10.0-1525</u>								
Conductivity: YSI 556 MPS		Field Calibration: <u>6883 8,974 umhos</u>								
ORP Meter: YSI 556 MPS		Field Calibration: <u>7800 +229 mV</u>								
DO Meter: YSI 556 MPS		Field Calibration (Optional):								
Thermometer: YSI 556 MPS		Check: A check solution will be used to validate calibration.								
TDS: YSI 556 MPS		Check Solution		Field Reading						
Other:		Temperature		<u>21-25</u>		<u>23.43</u>				
		pH		<u>6.8-7.2</u>		<u>7.01</u>				
		Conductivity		<u>7630-8010</u>		<u>7989</u>				
		ORP		<u>212-242</u>		<u>218.0</u>				
<b>SAMPLING MEASUREMENTS:</b>										
Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>4:24pm</u>	<u>53/48.38</u>	<u>6.29/m</u>								
<u>4:44pm</u>			<u>27.08</u>	<u>6.48</u>	<u>6714</u>		<u>187.2</u>		<u>4.199</u>	
<u>4:44pm</u>			<u>26.28</u>	<u>6.58</u>	<u>6576</u>		<u>238.2</u>		<u>4.172</u>	
<u>4:47pm</u>			<u>25.45</u>	<u>6.57</u>	<u>6446</u>		<u>272.8</u>		<u>4.162</u>	
<u>16:50pm</u>			<u>25.33</u>	<u>6.56</u>	<u>6424</u>		<u>292.8</u>		<u>4.138</u>	
<u>16:53pm</u>			<u>24.79</u>	<u>6.53</u>	<u>6310</u>		<u>308.3</u>		<u>4.118</u>	
<b>SAMPLE INVENTORY:</b>										
Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)				
Time	Volume	Composition (G, P)	No.							
Comments:					 <b>VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT</b>					
<u>Tim Faltysiek 8-18-2014</u>										

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: DW-000699 Date: 8-16-2014

Location: 5040 Fm 446 Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: KARRIE Brandt Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltysch Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged from faucet 10 min. Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH-10.0-1525

Conductivity: YSI 556 MPS Field Calibration: 6885 8.974 6mhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>23.43</u>
pH	<u>6.8 - 7.2</u>	<u>7.01</u>
Conductivity	<u>7630 - 8010</u>	<u>79.89</u>
ORP	<u>212 - 242</u>	<u>210.0</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>5:06pm</u>	<u>59/38.76</u>	<u>7.79/m</u>								
<u>5:16pm</u>			<u>24.04</u>	<u>6.35</u>	<u>2929</u>		<u>211.5</u>		<u>1939</u>	
<u>5:19pm</u>			<u>24.07</u>	<u>6.55</u>	<u>3039</u>		<u>203.0</u>		<u>2.011</u>	
<u>5:22pm</u>			<u>24.16</u>	<u>6.59</u>	<u>3135</u>		<u>201.0</u>		<u>2.071</u>	
<u>5:25pm</u>			<u>23.95</u>	<u>6.57</u>	<u>3236</u>		<u>200.3</u>		<u>2.145</u>	
<u>5:26pm</u>			<u>24.04</u>	<u>6.50</u>	<u>3257</u>		<u>198.4</u>		<u>2.155</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: Tim Faltysch 8-19-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: **NW-000558** Date: **8-18-2014**

Location: **5804 Fm 446** Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: **Logan Brandt** Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: **Tim Faltysek** Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: **N/A**

Purging: **Purged from faucet 10 min** Sampling: **N/A**

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: **PI+ 7-1500/PH4-1460/PH10.0-1525**

Conductivity: YSI 556 MPS Field Calibration: **6883 8,974 Remhos**

ORP Meter: YSI 556 MPS Field Calibration: **7800 t229 mV**

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

	Check Solution	Field Reading
Temperature	<b>21-25</b>	<b>23.43</b>
pH	<b>6.8-7.2</b>	<b>7.01</b>
Conductivity	<b>7630-8010</b>	<b>7589</b>
ORP	<b>212-242</b>	<b>218.0</b>

Other: \_\_\_\_\_

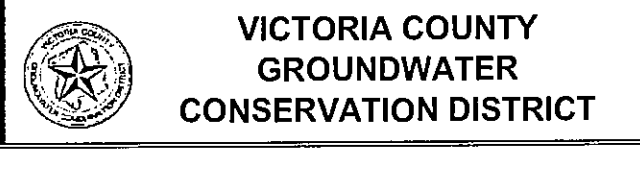
**SAMPLING MEASUREMENTS**


Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<b>5:40 pm</b>	<b>5/37.73</b>	<b>8.039/min</b>								
<b>5:54 pm</b>			<b>24.37</b>	<b>6.59</b>	<b>1744</b>			<b>183.2</b>	<b>1.140</b>	
<b>5:57 pm</b>			<b>24.28</b>	<b>6.74</b>	<b>2061</b>			<b>174.9</b>	<b>1.358</b>	
<b>6:00 pm</b>			<b>24.20</b>	<b>6.72</b>	<b>2091</b>			<b>173.3</b>	<b>1.380</b>	
<b>6:03 pm</b>			<b>24.16</b>	<b>6.71</b>	<b>2090</b>			<b>172.2</b>	<b>1.381</b>	
<b>6:06 pm</b>			<b>24.11</b>	<b>6.67</b>	<b>2091</b>			<b>171.3</b>	<b>1.382</b>	

**SAMPLE INVENTORY**

Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			

Comments: **Tim Faltysek 8-19-2014**



GROUNDWATER MONITORING RECORD						PAGE 1 of 1					
State Well ID:			District Well ID: <b>DW-000130</b>			Date: <b>9-25-14</b>					
Location: <b>28 Wellspring Blvd</b>			Starting Water Level (ft. below BMP):								
Owner: <b>Tom Rampey</b>			Casing Stickup (ft.):								
Measuring Point (MP) of Well: <b>1.1</b>			Starting Water Level (ft. BGL): <b>100.45</b>								
Casing Diameter (in ID):			Total Depth (ft. BGL):								
Sampled by: <b>Tom Faltysch</b>			Casing Volume (gal.):								
<b>QUALITY ASSURANCE</b>											
<b>METHODS (describe):</b>											
Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox						Disposal of Discharged Water: <b>N/A</b>					
Purging: <b>10 mins from faucet</b>						Sampling: <b>N/A</b>					
<b>INSTRUMENTS (Indicate make, model, I.D.)</b>											
pH: YSI 556 MPS						Field Calibration: <b>PH 7-1500 / PH 4-1460 / PH 100-1525</b>					
Conductivity: YSI 556 MPS						Field Calibration: <b>6883 / 8,974 µmhos</b>					
ORP Meter: YSI 556 MPS						Field Calibration: <b>7800 / +229 mV</b>					
DO Meter: YSI 556 MPS						Field Calibration (Optional):					
Thermometer: YSI 556 MPS						Check: A check solution will be used to validate calibration.					
TDS: YSI 556 MPS						Check Solution			Field Reading		
Other: <b>TDS Constant .65</b>						Temperature	<b>21 - 25</b>			<b>21.54</b>	
						pH	<b>6.8 - 7.2</b>			<b>7.02</b>	
						Conductivity	<b>7630 - 8010</b>			<b>7800</b>	
						ORP	<b>212 - 242</b>			<b>218.1</b>	
<b>SAMPLING MEASUREMENTS</b>											
Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks	
<b>8:50am</b>	<b>59</b>	<b>3.18</b>									
<b>9:03am</b>			<b>23.94</b>	<b>6.83</b>	<b>774</b>		<b>11.1</b>		<b>0.513</b>		
<b>9:06am</b>			<b>23.58</b>	<b>7.19</b>	<b>774</b>		<b>-149.4</b>		<b>0.513</b>		
<b>9:09am</b>			<b>23.59</b>	<b>7.19</b>	<b>775</b>		<b>-189.9</b>		<b>0.513</b>		
<b>9:12am</b>			<b>23.99</b>	<b>7.19</b>	<b>775</b>		<b>-210.3</b>		<b>0.513</b>		
<b>9:15am</b>			<b>23.99</b>	<b>7.18</b>	<b>775</b>		<b>-223.7</b>		<b>0.513</b>		
<b>SAMPLE INVENTORY</b>											
Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)					
	Volume	Composition (G, P)	No.								
Comments:						 <b>VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT</b>					
<b>Jim Faltysch 9-25-2014</b>											



**GROUNDWATER MONITORING RECORD**

State Well ID: \_\_\_\_\_ District Well ID: DW-000150 Date: 9-25-14

Location: 5666 mid way rd. S. Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Myra & Kirk Feberbacher Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: 2.9 Starting Water Level (ft. BGL): 32.6

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltsch Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: 10 min. from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH 7-1500/PH 4-1460/PH 100-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 / 8,974 µmhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 / +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

Other:	Check Solution	Field Reading
<u>TDS Constant .65</u>	Temperature <u>21 - 25</u>	<u>21.54</u>
	pH <u>6.8 - 7.2</u>	<u>7.02</u>
	Conductivity <u>7630-8010</u>	<u>7800</u>
	ORP <u>212-242</u>	<u>218.1</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>10:18 AM</u>	<u>59/3555</u>	<u>8.339/m.</u>								
<u>10:32 AM</u>			<u>23.35</u>	<u>6.79</u>	<u>1309</u>		<u>78.1</u>		<u>0.875</u>	
<u>10:35 AM</u>			<u>23.34</u>	<u>6.96</u>	<u>1307</u>		<u>-2.4</u>		<u>0.878</u>	
<u>10:38 AM</u>			<u>23.34</u>	<u>6.94</u>	<u>1307</u>		<u>-20.0</u>		<u>0.877</u>	
<u>10:41 AM</u>			<u>23.33</u>	<u>6.89</u>	<u>1307</u>		<u>-28.0</u>		<u>0.877</u>	
<u>10:44 AM</u>			<u>23.33</u>	<u>6.82</u>	<u>1307</u>		<u>-32.3</u>		<u>0.877</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: Jim Faltsch 9-26-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

**GROUNDWATER MONITORING RECORD**

State Well ID: \_\_\_\_\_ District Well ID: BW-000533 Date: 9-25-14

Location: 645 Repka Rd. Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Tim & Carolyn Faltysell Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: 0.8 Starting Water Level (ft. BGL): 39.63

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltysell Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: 10 min. from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH 7-1500/PH 4-1460/PH 100-1525

Conductivity: YSI 556 MPS Field Calibration: 6083 / 8,974 µmhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 / +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

Other: TDS constant .65

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>21.54</u>
pH	<u>6.8 - 7.2</u>	<u>7.02</u>
Conductivity	<u>7630 - 8010</u>	<u>7800</u>
ORP	<u>212 - 242</u>	<u>218.1</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>11:00am</u>	<u>0</u>	<u>0</u>								
<u>11:25am</u>			<u>23.91</u>	<u>6.55</u>	<u>1372</u>		<u>44.2</u>		<u>0.910</u>	
<u>11:28am</u>			<u>23.88</u>	<u>6.88</u>	<u>1369</u>		<u>-53.6</u>		<u>0.909</u>	
<u>11:31am</u>			<u>23.89</u>	<u>6.97</u>	<u>1368</u>		<u>-71.9</u>		<u>0.909</u>	
<u>11:34am</u>			<u>23.91</u>	<u>7.01</u>	<u>1369</u>		<u>-77.4</u>		<u>0.908</u>	
<u>11:38am</u>			<u>23.91</u>	<u>7.02</u>	<u>1360</u>		<u>-80.0</u>		<u>0.908</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments:

Tim Faltysell 9-26-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: GW-000562 Date: 9-25-14

Location: Hickel Rd Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Meel Brothers Casing Suckup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltysell Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: 10min. Purged from faucet Sampling: NA

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH 7-1500/PH 4-1460/PH 100-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 / 8,974 µmhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 / +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

Other: TDS constant .65

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>21.54</u>
pH	<u>6.8 - 7.2</u>	<u>7.02</u>
Conductivity	<u>7630 - 8010</u>	<u>7800</u>
ORP	<u>212 - 242</u>	<u>218.1</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>12:46p</u>	<u>59.20.11</u>	<u>14.29/m</u>								
<u>13:01p</u>			<u>24.00</u>	<u>6.81</u>	<u>1340</u>		<u>76.8</u>		<u>0.889</u>	
<u>13:04p</u>			<u>23.77</u>	<u>6.86</u>	<u>1335</u>		<u>63.3</u>		<u>0.888</u>	
<u>13:07p</u>			<u>23.66</u>	<u>6.87</u>	<u>1332</u>		<u>54.0</u>		<u>0.889</u>	
<u>13:10p</u>			<u>23.59</u>	<u>6.88</u>	<u>1331</u>		<u>45.4</u>		<u>0.889</u>	
<u>13:13p</u>			<u>23.52</u>	<u>6.88</u>	<u>1329</u>		<u>37.2</u>		<u>0.889</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: Jim Faltysell 9-26-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: AW-000395 Date: 9-25-14

Location: 1190 Berboa Rd. Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Mark Meel Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: 1.85 Starting Water Level (ft. BGL): 26.85

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltsel Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: 10 min. Purged from faucet Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH 7-1500 / PH 4-1460 / PH 100-1525

Conductivity: YSI 556 MPS Field Calibration: 6683 / 8,974 µmhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 / +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS		Check Solution	Field Reading
Other: <u>TDS constant</u>	<u>.65</u>	Temperature: <u>21 - 25</u>	<u>21.54</u>
		pH: <u>6.8 - 7.2</u>	<u>7.02</u>
		Conductivity: <u>7630 - 8010</u>	<u>7800</u>
		ORP: <u>212 - 242</u>	<u>218.1</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>1:41p</u>	<u>5.94534</u>	<u>6.619/m</u>								
<u>1:57p</u>			<u>24.02</u>	<u>6.84</u>	<u>1230</u>		<u>122.9</u>		<u>0.815</u>	
<u>2:00p</u>			<u>23.90</u>	<u>6.90</u>	<u>1250</u>		<u>110.3</u>		<u>0.830</u>	
<u>2:03p</u>			<u>23.74</u>	<u>6.95</u>	<u>1209</u>		<u>108.3</u>		<u>0.805</u>	
<u>2:06p</u>			<u>23.77</u>	<u>6.96</u>	<u>1215</u>		<u>107.8</u>		<u>0.809</u>	
<u>2:09p</u>			<u>23.99</u>	<u>6.96</u>	<u>1228</u>		<u>106.7</u>		<u>0.815</u>	


**SAMPLE INVENTORY**

Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			

Comments: Jim Faltsel 9-26-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

GROUNDWATER MONITORING RECORD						PAGE 1 of 1				
State Well ID:		District Well ID: <u>ALW-000550</u>			Date: <u>9-25-14</u>					
Location: <u>171 Post Oak Bend</u>				Starting Water Level (ft. below BMP):						
Owner: <u>Wallace Brown</u>				Casing Stickup (ft.):						
Measuring Point (MP) of Well:				Starting Water Level (ft. BGL):						
Casing Diameter (In ID):				Total Depth (ft. BGL):						
Sampled by: <u>Tim Faltysek</u>				Casing Volume (gal.):						
QUALITY ASSURANCE										
<b>METHODS (describe):</b>										
Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox				Disposal of Discharged Water: <u>N/A</u>						
Purging: <u>Purged from faucet 10 min</u>				Sampling: <u>NA</u>						
<b>INSTRUMENTS (Indicate make, model, I.D.)</b>										
pH: YSI 556 MPS		Field Calibration: <u>PH 7-1500/PH 4-1460/PH 100-1525</u>								
Conductivity: YSI 556 MPS		Field Calibration: <u>6683 / 8,974 µmhos</u>								
ORP Meter: YSI 556 MPS		Field Calibration: <u>7800 / +229 mV</u>								
DO Meter: YSI 556 MPS		Field Calibration (Optional):								
Thermometer: YSI 556 MPS		Check: A check solution will be used to validate calibration.								
TDS: YSI 556 MPS		Check Solution		Field Reading						
Other: <u>TDS constant .65</u>		Temperature		<u>21 -25</u>		<u>21.54</u>				
		pH		<u>6.8 - 7.2</u>		<u>7.02</u>				
		Conductivity		<u>7630-8010</u>		<u>7800</u>				
		ORP		<u>212-242</u>		<u>218.1</u>				
SAMPLING MEASUREMENTS										
Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>2:20 pm</u>	<u>59/22.46</u>	<u>13.35 g/m</u>								
<u>2:43 pm</u>			<u>22.97</u>	<u>5.79</u>	<u>269</u>		<u>99.6</u>		<u>0.182</u>	
<u>2:46 pm</u>			<u>22.95</u>	<u>5.84</u>	<u>275</u>		<u>96.6</u>		<u>0.186</u>	
<u>2:49 pm</u>			<u>22.95</u>	<u>5.86</u>	<u>277</u>		<u>97.8</u>		<u>0.188</u>	
<u>2:52 pm</u>			<u>22.95</u>	<u>5.87</u>	<u>279</u>		<u>99.5</u>		<u>0.189</u>	
<u>2:55 pm</u>			<u>22.97</u>	<u>5.89</u>	<u>281</u>		<u>101.4</u>		<u>0.190</u>	
SAMPLE INVENTORY										
Bottles Collected				Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)				
Time	Volume	Composition (G, P)	No.							
Comments:					 <b>VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT</b>					
<u>Tim Faltysek 9-26-2014</u>										

**GROUNDWATER MONITORING RECORD** PAGE 1 of 1

State Well ID: \_\_\_\_\_ District Well ID: A W-00576 Date: 9-25-14

Location: 171 Post Oak Bend Starting Water Level (ft. below BMP): \_\_\_\_\_

Owner: Wallace Brown Casing Stickup (ft.): \_\_\_\_\_

Measuring Point (MP) of Well: \_\_\_\_\_ Starting Water Level (ft. BGL): \_\_\_\_\_

Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_

Sampled by: Tim Faltyssek Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: N/A

Purging: Purged from faucet 10 min Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH100-1525

Conductivity: YSI 556 MPS Field Calibration: 6883 / 8,974  $\mu$ mhos

ORP Meter: YSI 556 MPS Field Calibration: 7800 / +229 mV

DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_

Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

Other: TDS Constant .65

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>21.54</u>
pH	<u>6.8 - 7.2</u>	<u>7.02</u>
Conductivity	<u>7630 - 8010</u>	<u>7800</u>
ORP	<u>212 - 242</u>	<u>218.1</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal./min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>3:04 pm</u>	<u>59/24.03</u>	<u>12.489/m</u>								
<u>3:12 pm</u>			<u>23.53</u>	<u>6.40</u>	<u>528</u>		<u>96.7</u>		<u>0.353</u>	
<u>3:15 pm</u>			<u>23.57</u>	<u>6.54</u>	<u>556</u>		<u>32.8</u>		<u>0.371</u>	
<u>3:18 pm</u>			<u>23.64</u>	<u>6.59</u>	<u>565</u>		<u>15.2</u>		<u>0.377</u>	
<u>3:21 pm</u>			<u>23.86</u>	<u>6.60</u>	<u>603</u>		<u>11.9</u>		<u>0.400</u>	
<u>3:24 pm</u>			<u>24.01</u>	<u>6.62</u>	<u>613</u>		<u>14.9</u>		<u>0.406</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments: Tim Faltyssek 9-26-2014



**VICTORIA COUNTY  
GROUNDWATER  
CONSERVATION DISTRICT**

**GROUNDWATER MONITORING RECORD**

State Well ID: \_\_\_\_\_ District Well ID: NW-000438 Date: 9-25-2014  
 Location: 11 Post Opil Glenn Starting Water Level (ft. below BMP): \_\_\_\_\_  
 Owner: Andrew Cannady Casing Stickup (ft.): \_\_\_\_\_  
 Measuring Point (MP) of Well: 1.9 Starting Water Level (ft. BGL): 37.25  
 Casing Diameter (in ID): \_\_\_\_\_ Total Depth (ft. BGL): \_\_\_\_\_  
 Sampled by: Tim Faltysell Casing Volume (gal.): \_\_\_\_\_

**QUALITY ASSURANCE**

**METHODS (describe):**

Cleaning Equipment: Dedicated Equipment, DI water, and Liqui-Nox Disposal of Discharged Water: X/A  
 Purging: Purged from faucet 10 min. Sampling: N/A

**INSTRUMENTS (Indicate make, model, I.D.)**

pH: YSI 556 MPS Field Calibration: PH7-1500/PH4-1460/PH10.0-1525  
 Conductivity: YSI 556 MPS Field Calibration: 6883 8,974  $\mu$ mhos  
 ORP Meter: YSI 556 MPS Field Calibration: 7800 +229 mV  
 DO Meter: YSI 556 MPS Field Calibration (Optional): \_\_\_\_\_  
 Thermometer: YSI 556 MPS Check: A check solution will be used to validate calibration.

TDS: YSI 556 MPS

Other: TDS Constant .65

	Check Solution	Field Reading
Temperature	<u>21 - 25</u>	<u>21.54</u>
pH	<u>6.8 - 7.2</u>	<u>7.02</u>
Conductivity	<u>7630 - 8010</u>	<u>7808</u>
ORP	<u>212 - 242</u>	<u>218.1</u>

**SAMPLING MEASUREMENTS**

Time	Cum. Vol. (gallons)	Purge Rate (gal/min.)	Temp. (°C)	pH	Spec. Cond. ( $\mu$ S/cm)	Color	ORP (mV)	DO (mg/L)	TDS (g/L)	Remarks
<u>3:43 p</u>	<u>59/40.22</u>	<u>7.45 g/min</u>								
<u>3:58 p</u>			<u>23.69</u>	<u>7.02</u>	<u>843</u>		<u>666</u>		<u>0.562</u>	
<u>4:01 p</u>			<u>23.66</u>	<u>7.06</u>	<u>848</u>		<u>18.9</u>		<u>0.565</u>	
<u>4:04 p</u>			<u>23.66</u>	<u>7.06</u>	<u>851</u>		<u>-9.7</u>		<u>0.568</u>	
<u>4:07 p</u>			<u>23.64</u>	<u>7.06</u>	<u>854</u>		<u>-29.8</u>		<u>0.570</u>	
<u>4:10 p</u>			<u>23.64</u>	<u>7.04</u>	<u>857</u>		<u>-46.2</u>		<u>0.572</u>	

**SAMPLE INVENTORY**

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			

Comments:  
Tim Faltysell 9-26-2014



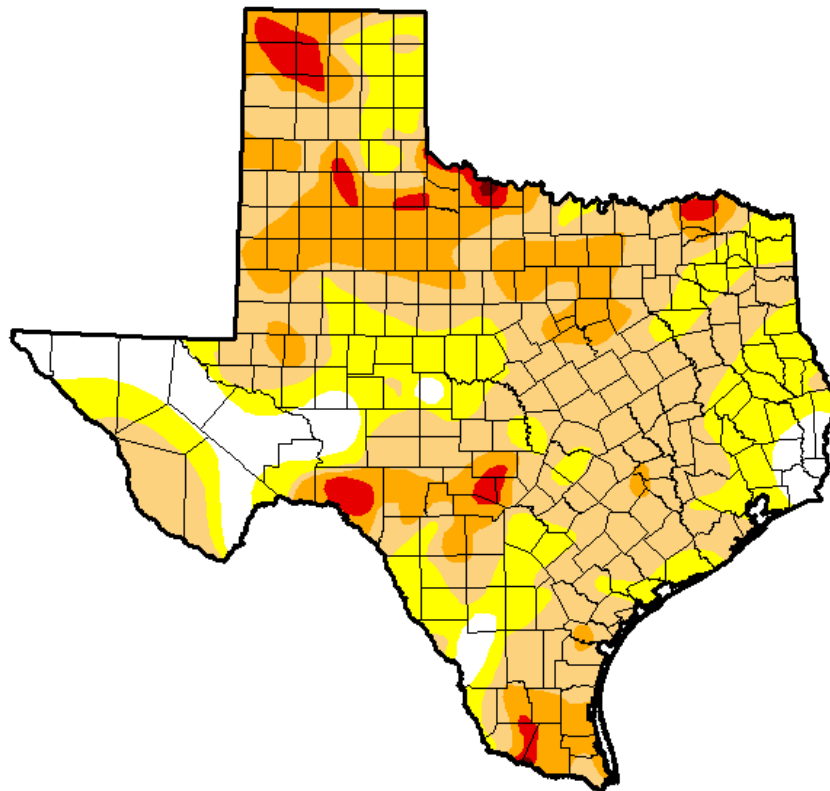
**VICTORIA COUNTY  
 GROUNDWATER  
 CONSERVATION DISTRICT**

Fiscal Year – 2013 - 2014 Annual Report  
Attachment 8



# U.S. Drought Monitor Texas

**October 15, 2013**  
(Released Thursday, Oct. 17, 2013)  
Valid 7 a.m. EDT



*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	9.10	90.90	65.25	21.73	3.19	0.12
<b>Last Week</b> <i>10/8/2013</i>	6.60	93.40	70.47	25.41	4.41	0.12
<b>3 Months Ago</b> <i>7/18/2013</i>	0.30	99.70	94.38	70.99	33.43	12.07
<b>Start of Calendar Year</b> <i>1/1/2013</i>	3.04	96.96	87.00	65.39	35.03	11.96
<b>Start of Water Year</b> <i>10/1/2013</i>	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> <i>10/16/2012</i>	17.08	82.92	62.47	31.26	15.80	3.20

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

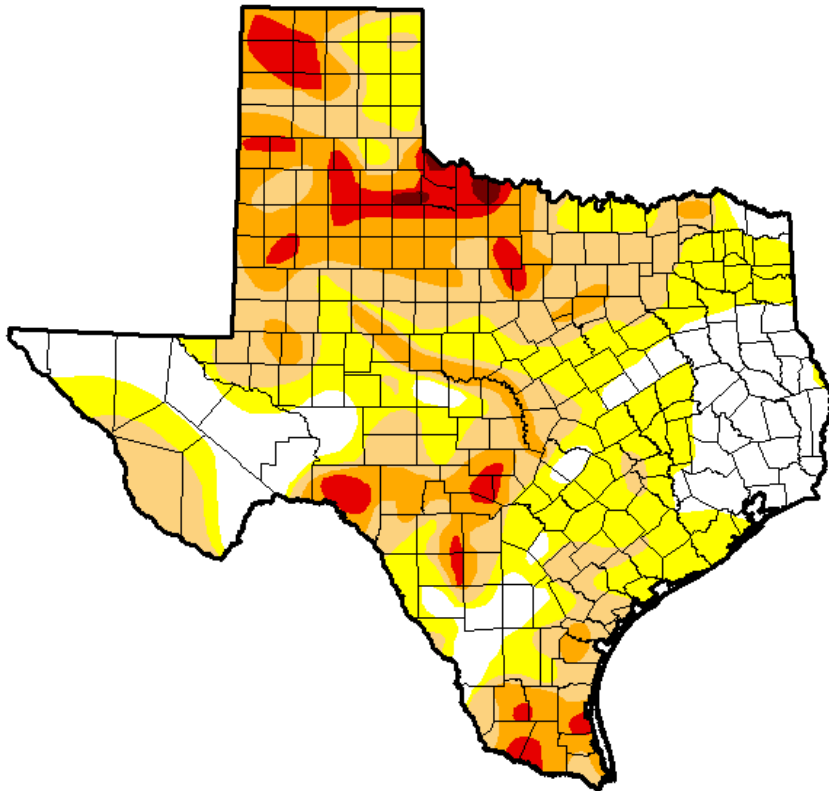
**Author:**  
Richard Tinker  
CPC/NOAA/NWS/NCEP



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor Texas

**November 12, 2013**  
(Released Thursday, Nov. 14, 2013)  
Valid 7 a.m. EST



*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	20.35	79.65	50.05	23.56	6.25	0.43
<b>Last Week</b> <i>11/5/2013</i>	20.07	79.93	50.49	23.61	5.43	0.49
<b>3 Months Ago</b> <i>8/13/2013</i>	2.82	97.18	87.90	65.92	20.64	3.84
<b>Start of Calendar Year</b> <i>1/1/2013</i>	3.04	96.96	87.00	65.39	35.03	11.96
<b>Start of Water Year</b> <i>10/1/2013</i>	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> <i>11/13/2012</i>	10.54	89.46	69.59	36.99	18.92	6.12

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

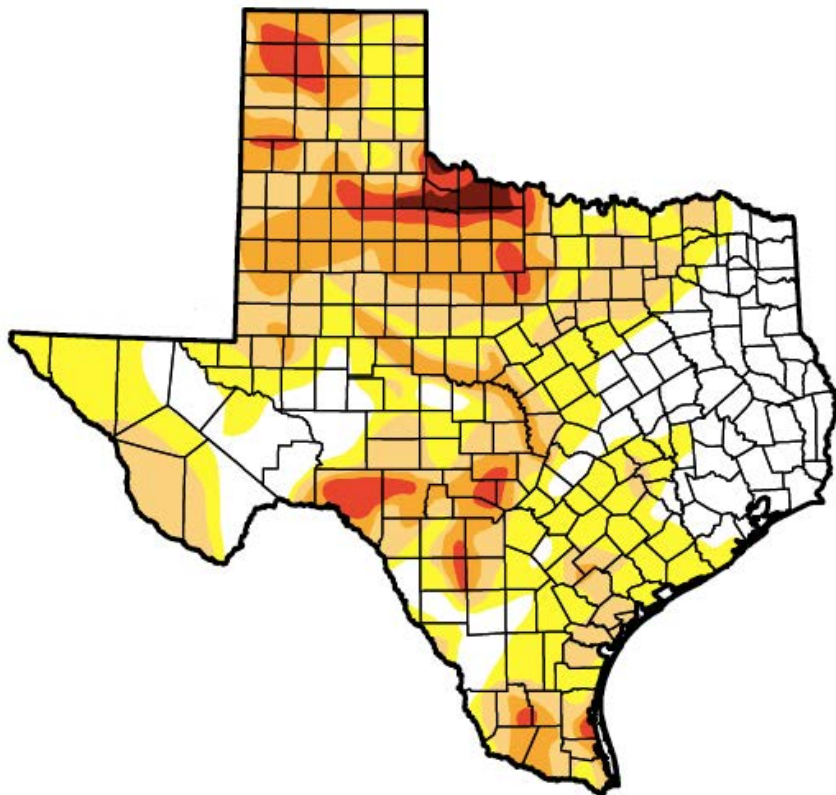
**Author:**  
David Simeral  
Western Regional Climate Center



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor Texas

**December 10, 2013**  
(Released Thursday, Dec. 12, 2013)  
Valid 7 a.m. EST



*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	25.73	74.27	44.89	20.83	5.70	0.96
<b>Last Week</b> <i>12/9/2013</i>	24.58	75.42	47.39	21.29	5.84	0.96
<b>3 Months Ago</b> <i>9/10/2013</i>	4.14	95.86	87.12	65.59	21.79	2.62
<b>Start of Calendar Year</b> <i>1/1/2013</i>	3.04	96.96	87.00	65.39	35.03	11.96
<b>Start of Water Year</b> <i>10/1/2013</i>	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> <i>12/11/2012</i>	5.91	94.09	87.72	65.04	32.22	8.45

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

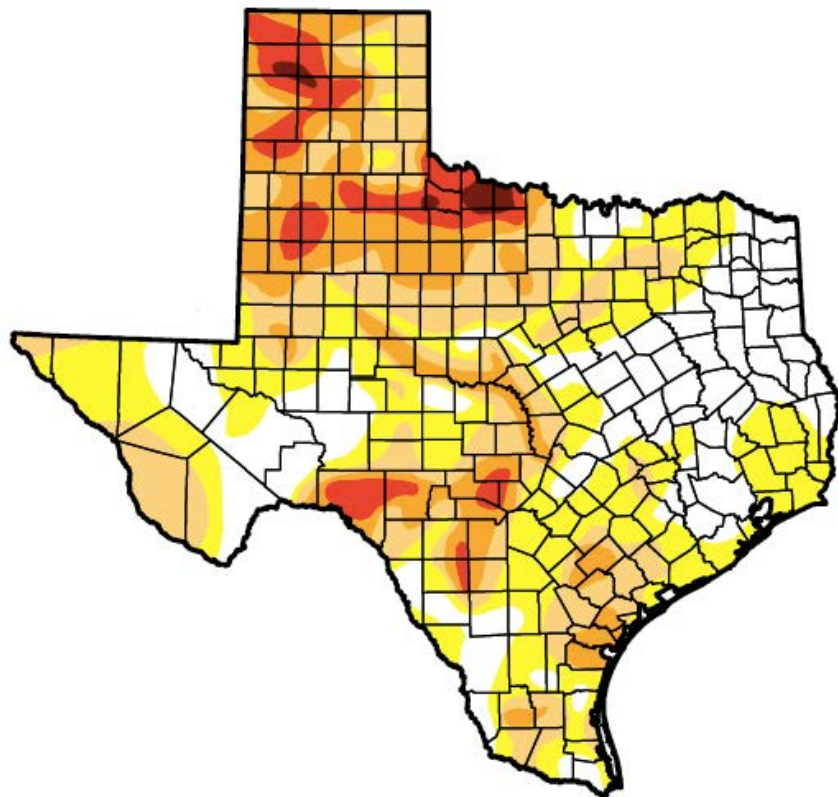
**Author:**  
Michael Brewer  
NCGD/NOAA



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor Texas

**January 14, 2014**  
(Released Thursday, Jan. 16, 2014)  
Valid 7 a.m. EST



*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	26.18	73.82	44.54	21.59	6.68	0.79
<b>Last Week</b> <i>1/7/2014</i>	28.13	71.87	43.89	20.84	5.82	0.79
<b>3 Months Ago</b> <i>10/15/2013</i>	9.10	90.90	65.25	21.73	3.19	0.12
<b>Start of Calendar Year</b> <i>12/31/2013</i>	28.48	71.52	43.84	21.15	5.82	0.79
<b>Start of Water Year</b> <i>10/1/2013</i>	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> <i>1/15/2013</i>	9.48	90.52	74.01	50.49	20.84	6.72

Intensity:



*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

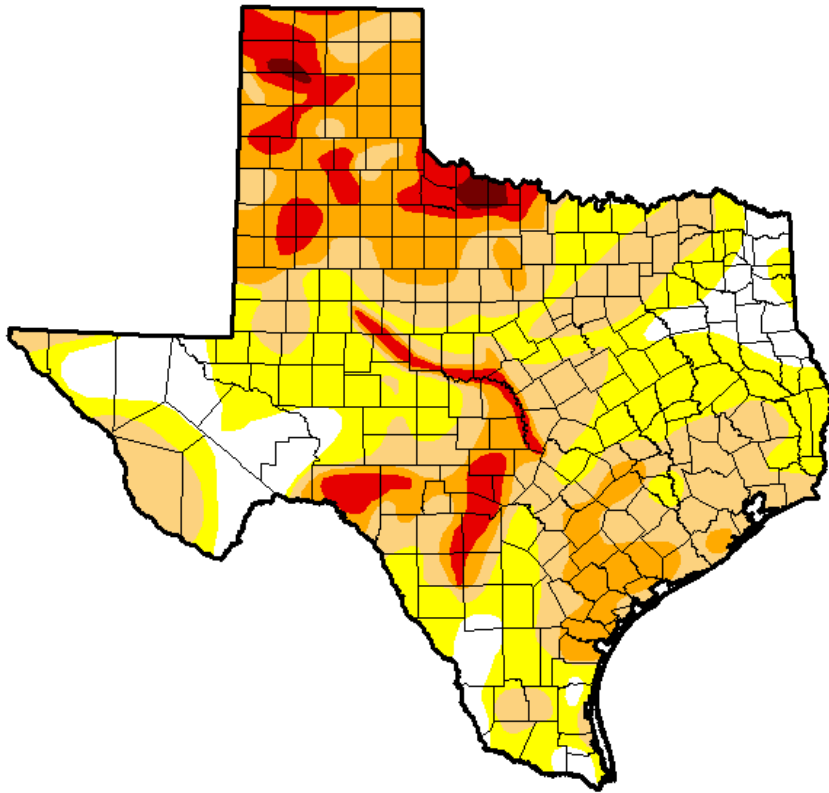
**Author:**  
*Eric Luebehusen*  
U.S. Department of Agriculture



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor Texas

**February 18, 2014**  
(Released Thursday, Feb. 20, 2014)  
Valid 7 a.m. EST



*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	11.96	88.04	58.20	27.48	8.54	0.71
<b>Last Week</b> <i>2/11/2014</i>	12.49	87.51	54.43	22.97	8.33	0.71
<b>3 Months Ago</b> <i>11/19/2013</i>	18.91	81.09	50.60	24.45	6.89	0.78
<b>Start of Calendar Year</b> <i>12/31/2013</i>	28.48	71.52	43.84	21.15	5.82	0.79
<b>Start of Water Year</b> <i>10/1/2013</i>	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> <i>2/19/2013</i>	12.01	87.99	73.58	49.06	25.80	7.89

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

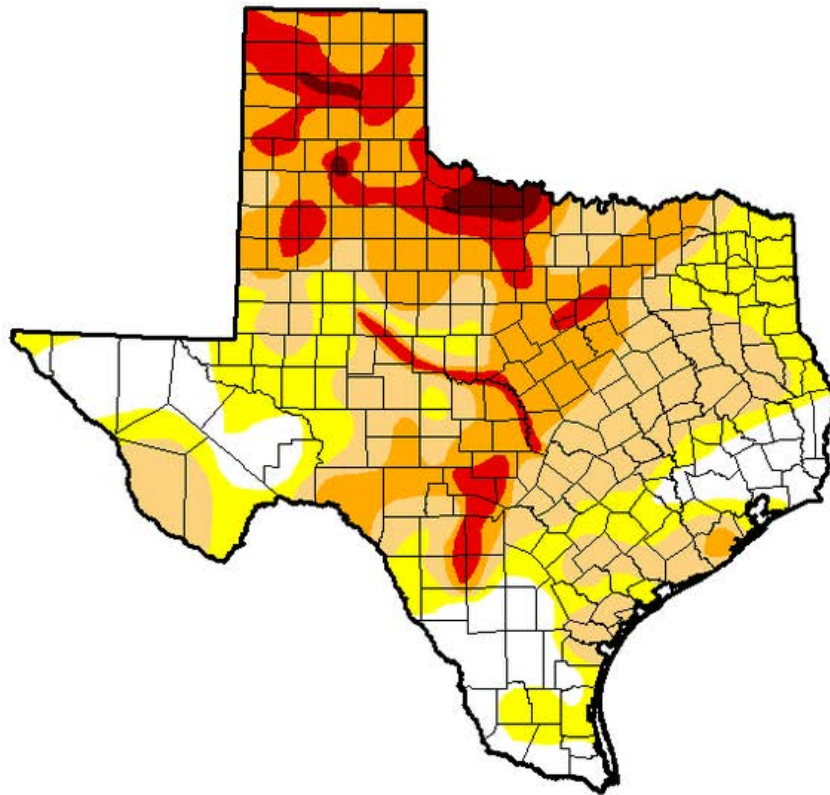
**Author:**  
David Miskus  
NOAA/NWS/NCEP/CPC



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor Texas

**March 11, 2014**  
(Released Thursday, Mar. 13, 2014)  
Valid 7 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	15.44	84.56	62.80	34.39	11.46	1.49
<b>Last Week</b> 3/4/2014	8.95	91.05	67.15	31.38	8.52	1.07
<b>3 Months Ago</b> 12/10/2013	25.73	74.27	44.89	20.83	5.70	0.96
<b>Start of Calendar Year</b> 12/31/2013	28.48	71.52	43.84	21.15	5.82	0.79
<b>Start of Water Year</b> 10/1/2013	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> 3/12/2013	11.53	88.47	76.80	54.04	23.41	8.57

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

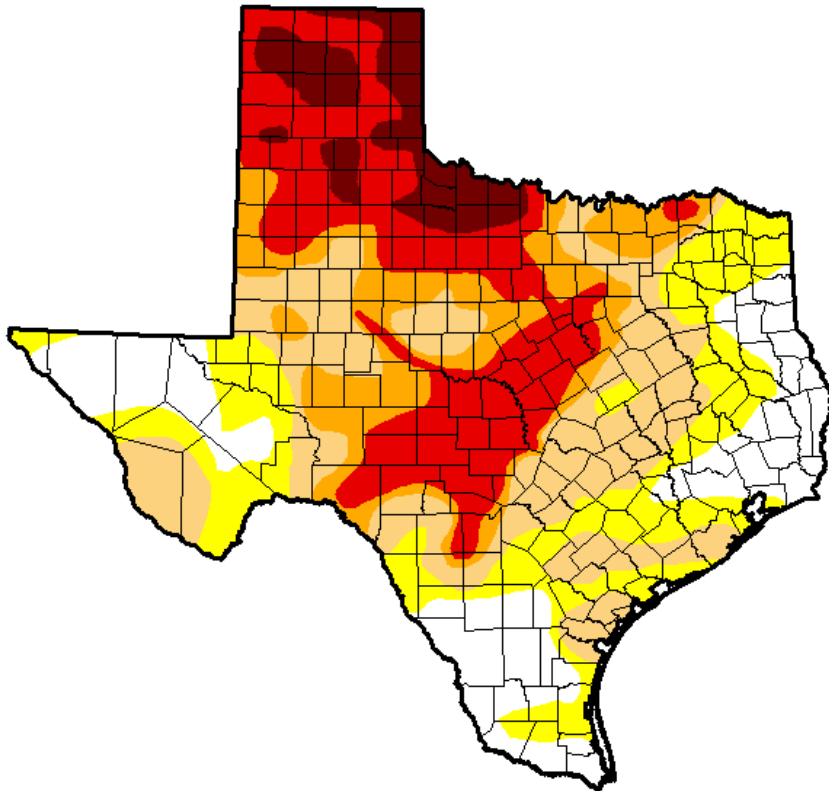
**Author:**  
Richard Tinker  
CPC/NOAA/NWS/NCEP



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor Texas

**April 8, 2014**  
(Released Thursday, Apr. 10, 2014)  
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	17.48	82.52	63.58	40.46	27.60	7.08
<b>Last Week</b> 4/1/2014	15.40	84.60	66.80	42.06	27.36	4.42
<b>3 Months Ago</b> 1/7/2014	28.13	71.87	43.89	20.84	5.82	0.79
<b>Start of Calendar Year</b> 12/31/2013	28.48	71.52	43.84	21.15	5.82	0.79
<b>Start of Water Year</b> 10/1/2013	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> 4/8/2013	0.44	99.56	89.44	69.35	29.91	11.56

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

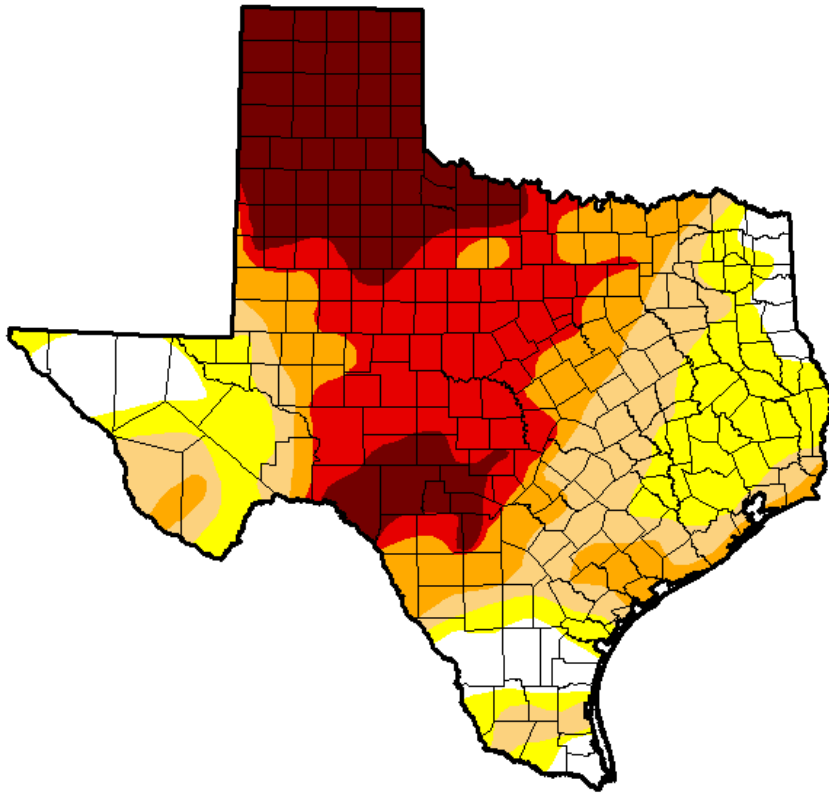
**Author:**  
Brian Fuchs  
National Drought Mitigation Center



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor Texas

**May 13, 2014**  
(Released Thursday, May 15, 2014)  
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	8.82	91.18	73.05	56.10	39.88	20.73
<b>Last Week</b> 5/6/2014	5.11	94.89	83.35	65.13	46.17	21.28
<b>3 Months Ago</b> 2/11/2014	12.49	87.51	54.43	22.97	8.33	0.71
<b>Start of Calendar Year</b> 12/31/2013	28.48	71.52	43.84	21.15	5.82	0.79
<b>Start of Water Year</b> 10/1/2013	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> 5/14/2013	2.84	97.16	90.55	68.71	36.09	12.05

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

**Author:**  
Mark Svoboda  
National Drought Mitigation Center

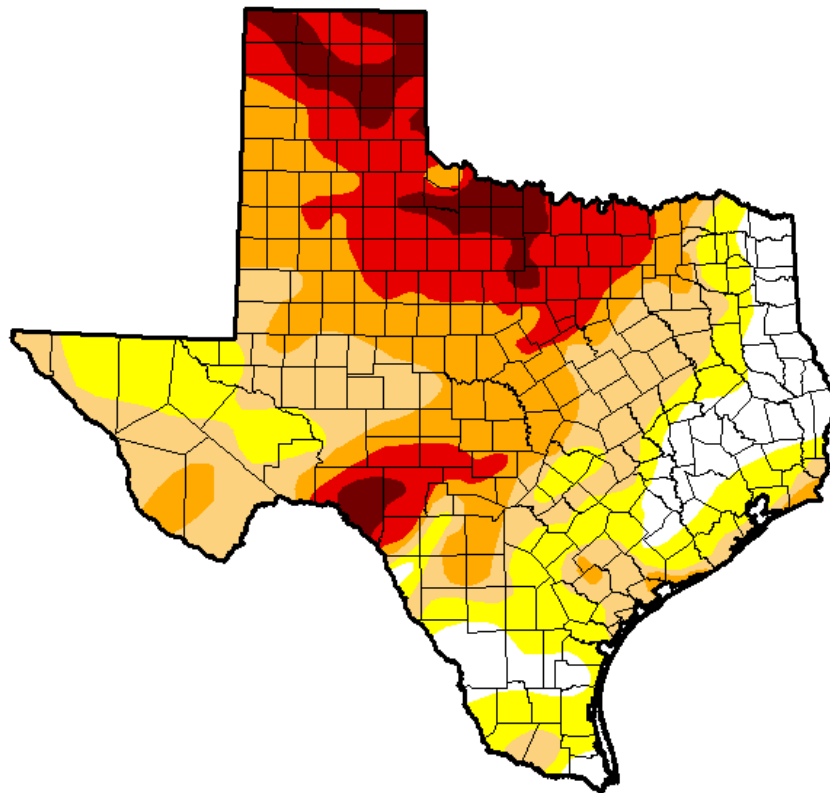


<http://droughtmonitor.unl.edu/>



# U.S. Drought Monitor Texas

**June 10, 2014**  
(Released Thursday, Jun. 12, 2014)  
Valid 8 a.m. EDT



*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	11.28	88.72	69.16	45.18	23.23	6.68
<b>Last Week</b> 6/3/2014	8.65	91.35	68.20	46.31	27.01	8.66
<b>3 Months Ago</b> 3/11/2014	15.44	84.56	62.80	34.39	11.46	1.49
<b>Start of Calendar Year</b> 12/31/2013	28.48	71.52	43.84	21.15	5.82	0.79
<b>Start of Water Year</b> 10/1/2013	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> 6/11/2013	5.44	94.56	84.18	59.45	32.36	14.85

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

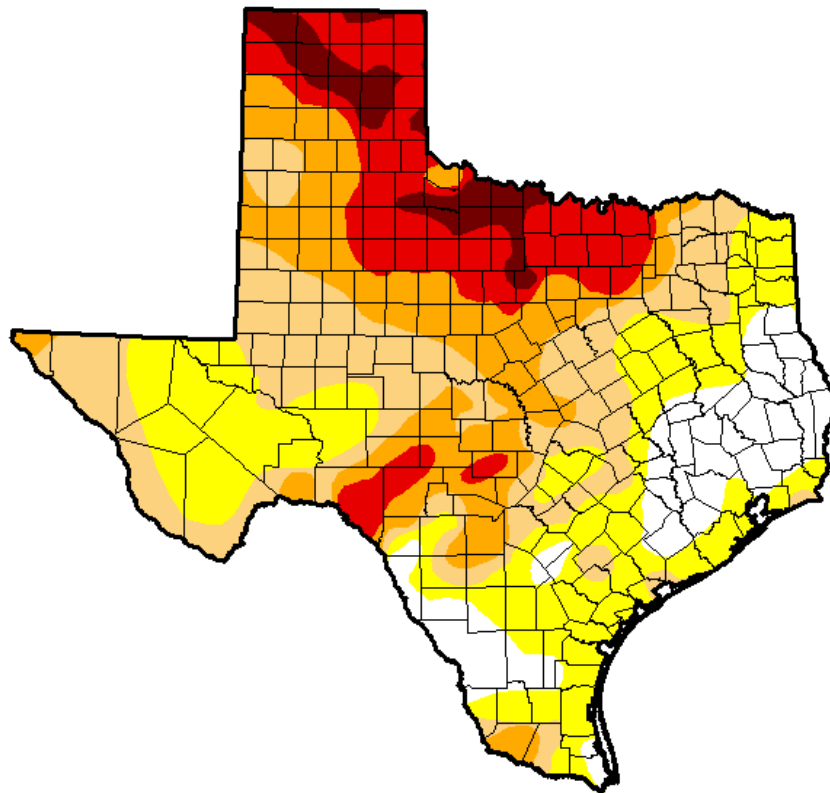
**Author:**  
Matthew Rosencrans  
CPC/NCEP/NWS/NOAA



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor Texas

**July 8, 2014**  
(Released Thursday, Jul. 10, 2014)  
Valid 8 a.m. EDT



*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	12.46	87.54	60.99	36.48	18.36	4.51
<b>Last Week</b> <i>7/1/2014</i>	12.86	87.14	60.44	36.99	18.51	4.76
<b>3 Months Ago</b> <i>4/8/2014</i>	17.48	82.52	63.58	40.46	27.60	7.08
<b>Start of Calendar Year</b> <i>12/31/2013</i>	28.48	71.52	43.84	21.15	5.82	0.79
<b>Start of Water Year</b> <i>10/1/2013</i>	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> <i>7/8/2013</i>	0.58	99.42	91.80	75.22	34.70	12.20

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

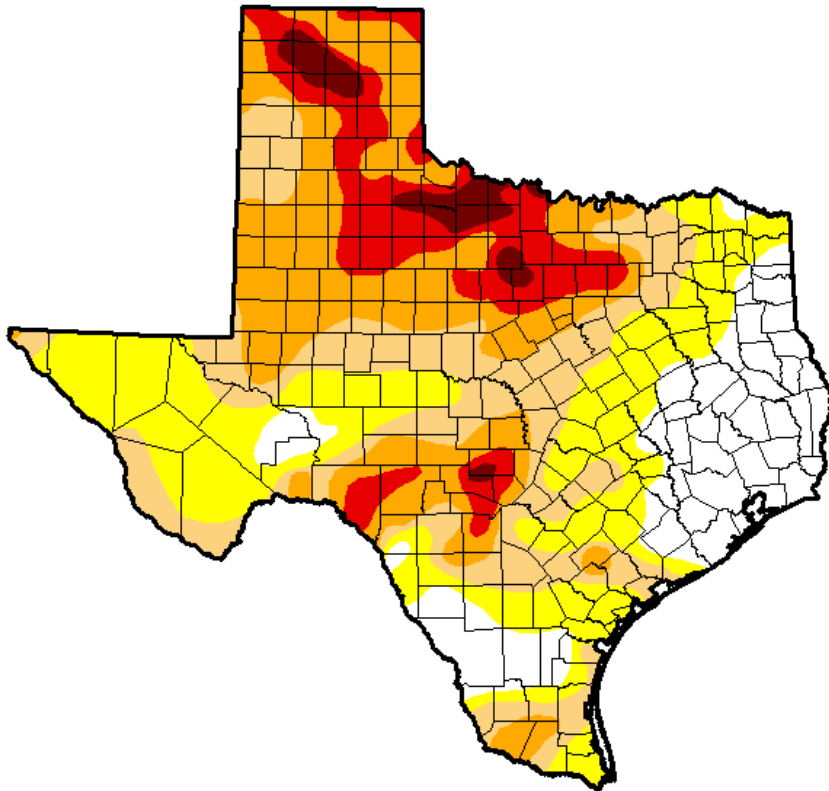
**Author:**  
Anthony Artusa  
NOAA/NWS/NCEP/CPC



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor Texas

**August 5, 2014**  
(Released Thursday, Aug. 7, 2014)  
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	17.20	82.80	56.88	35.52	13.67	2.85
<b>Last Week</b> <i>7/29/2014</i>	15.95	84.05	58.10	32.96	14.29	2.94
<b>3 Months Ago</b> <i>5/6/2014</i>	5.11	94.89	83.35	65.13	46.17	21.28
<b>Start of Calendar Year</b> <i>12/31/2013</i>	28.48	71.52	43.84	21.15	5.82	0.79
<b>Start of Water Year</b> <i>10/1/2013</i>	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> <i>8/6/2013</i>	1.72	98.28	88.38	67.69	25.80	6.24

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

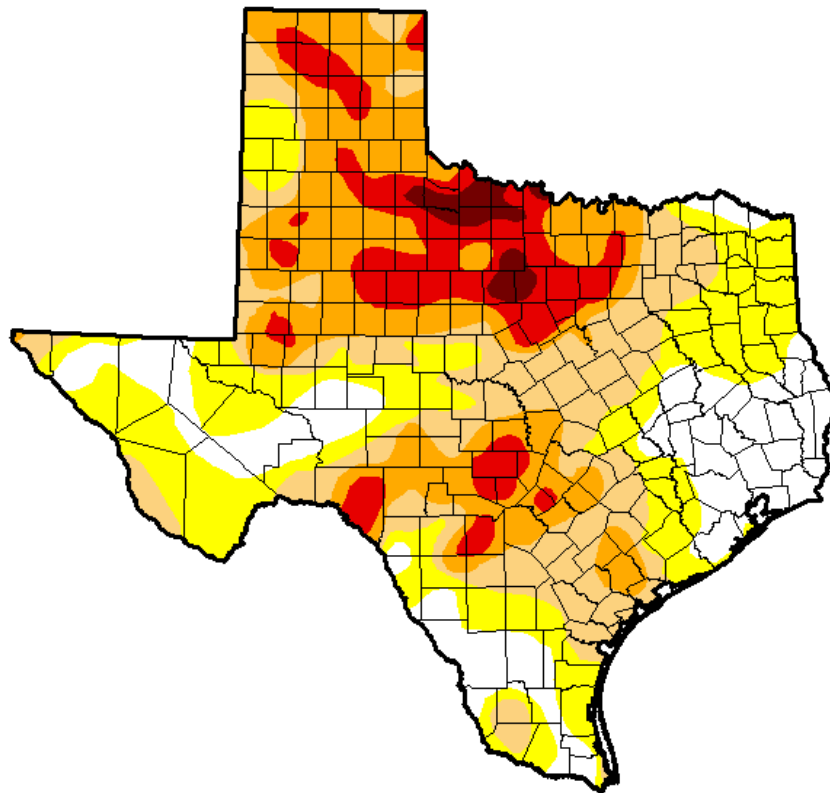
**Author:**  
Brad Rippey  
U.S. Department of Agriculture



<http://droughtmonitor.unl.edu/>

# U.S. Drought Monitor Texas

**September 16, 2014**  
(Released Thursday, Sep. 18, 2014)  
Valid 8 a.m. EDT



*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	17.71	82.29	56.83	35.00	13.05	1.79
<b>Last Week</b> 9/9/2014	13.77	86.23	57.62	36.26	13.87	1.54
<b>3 Months Ago</b> 6/17/2014	10.45	89.55	70.95	41.30	21.50	6.56
<b>Start of Calendar Year</b> 12/31/2013	28.48	71.52	43.84	21.15	5.82	0.79
<b>Start of Water Year</b> 10/1/2013	6.62	93.38	70.95	25.08	4.01	0.12
<b>One Year Ago</b> 9/17/2013	5.30	94.70	86.30	64.06	25.08	1.65

Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.*

**Author:**  
Michael Brewer  
NCDC/NOAA



<http://droughtmonitor.unl.edu/>

Fiscal Year – 2013 - 2014 Annual Report  
Attachment 9

2013-2014



**VICTORIA COUNTY GROUNDWATER  
CONSERVATION DISTRICT  
WATERWISE™ PROGRAM  
SUMMARY REPORT**

SUBMITTED BY:  
RESOURCE ACTION PROGRAMS®



RESOURCE ACTION  
PROGRAMS

# Victoria County Groundwater Conservation District WaterWise™ Program Summary Report 2013-2014


Made possible by:



Submitted by:



July 2014



*“In my opinion what the students like best about the program is how they were able to work on it with their family at home.”*

**Teralee Barnett, Teacher**

*Aloe Elementary School*



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*“The students enjoyed the visual of the world’s water resources by using a candy bar.”*

**Terri Ratliff, Teacher**  
*Aloe Elementary School*

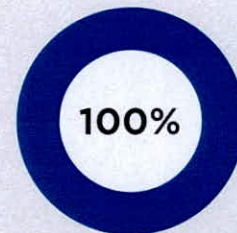
# Executive Summary

Resource Action Programs (RAP) is pleased to present this Program Summary Report to Victoria County Groundwater Conservation District which summarizes the 2013-2014 Victoria County Groundwater Conservation District WaterWise™ Program. The program was implemented in the Victoria County Groundwater Conservation District service area in the state of Texas by 285 teachers, students, and their families.

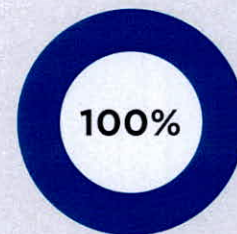
The following pages provide an overview of the program and materials, outline of program implementation, introduction to the program team, description of program enhancements, impact of the program, and summary of results from the home activities. In addition to this information, evaluations, letters, and comments are provided for a glimpse into actual participant feedback. Lastly, projected savings from the individual measures found within the WaterWise Kit are also included.

## Participant Satisfaction

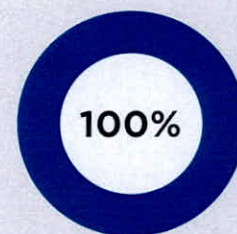
A successful program excites and engages participants. Students, parents, and teachers are asked to evaluate the program and provide personal comments. A sample of the feedback is given in the margin. >



*Teachers who indicated parents supported the program.*

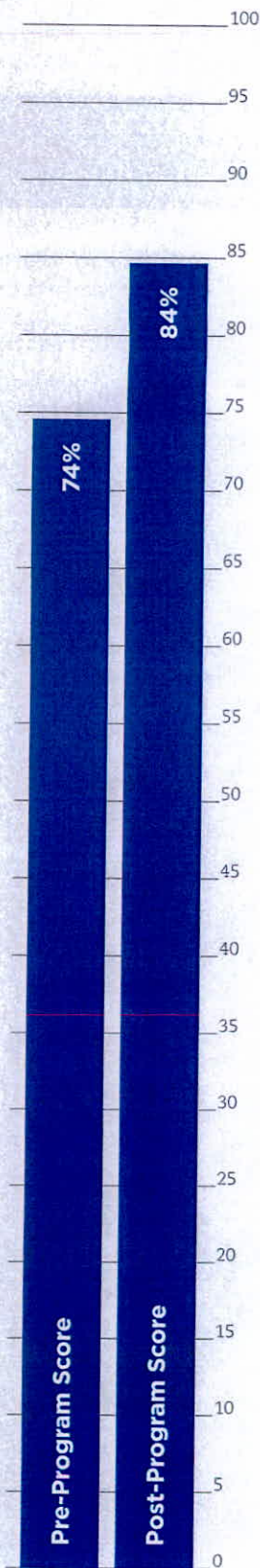


*Teachers who indicated they would recommend this program to other colleagues.*



*Teachers who indicated they would conduct this program again.*

A summary of responses can be found in Appendix D.



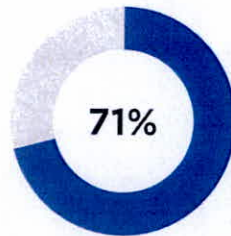
### Knowledge Gained

Identical tests were taken by students prior to the program and again upon program completion to measure knowledge gained. Scores and subject knowledge improved from **74%** to **84%**.

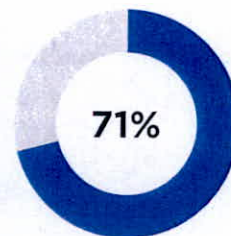
### Data Obtained

Home surveys were performed by students and their families, collecting household demographic and consumption data along with program participation information.

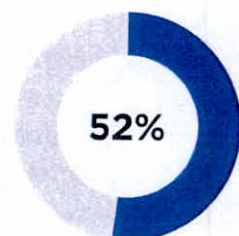
*A summary of responses can be found in Appendix B.*



*Students who indicated their family home is owned.*



*Students who reported that their water is heated by electricity.*

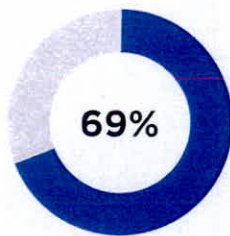


*Students who reported their home has a dishwasher.*

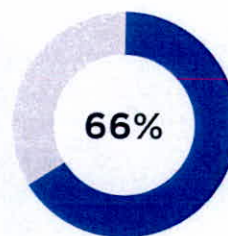
### Measures Installed

Students completed retrofit activities as part of the program, and reported the measures they installed in their own homes.

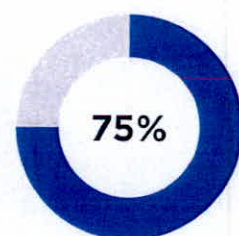
*A summary of responses can be found in Appendix B.*



*Students who reported they installed the High-Efficiency Showerhead.*



*Students who reported they installed the Bathroom Faucet Aerator.*



*Students who reported they installed the Kitchen Faucet Aerator.*

## Water and Energy Savings Results

In addition to educating students and their parents, a primary program goal is to generate cost-effective water and energy savings. Student home surveys not only provided the data used in the savings projections, but also reinforced the learning benefits.

### Projected Resource Savings


A list of assumptions and formulas used for these calculations can be found in Appendix A.

PROJECTED ANNUAL SAVINGS	
<b>3,146,734</b>	gallons of water saved
<b>5,163</b>	therms of gas saved
<b>243,848</b>	kWh electricity saved
<b>3,146,734</b>	gallons wastewater saved

PROJECTED LIFETIME SAVINGS	
<b>22,201,202</b>	gallons of water saved
<b>38,348</b>	therms of gas saved
<b>1,818,402</b>	kWh electricity saved
<b>22,201,202</b>	gallons wastewater saved

PROJECTED ANNUAL SAVINGS PER HOME	
<b>11,041</b>	gallons of water saved
<b>18</b>	therms of gas saved
<b>856</b>	kWh electricity saved
<b>11,041</b>	gallons wastewater saved

PROJECTED LIFETIME SAVINGS PER HOME	
<b>77,899</b>	gallons of water saved
<b>135</b>	therms of gas saved
<b>6,380</b>	kWh electricity saved
<b>77,899</b>	gallons wastewater saved



*“Participants and their  
parents/guardians realize  
actual energy savings within  
their home, benefitting  
two generations.”*

# Program Overview

The Victoria County Groundwater Conservation District WaterWise™ Program, a school-based energy efficiency education program, is designed to generate immediate and long-term resource savings by bringing interactive, real-world education home to students and their families. The 2013-2014 program was taught in grade 5 in the Victoria County Groundwater Conservation District service area.


The Victoria County Groundwater Conservation District program team identifies and enrolls students and teachers within the designated service area. The program physically begins with classroom discussions in a Student Guide that provide the foundations of using water and energy efficiently, followed by hands-on, creative, problem solving activities led by the classroom teacher.

All program materials support state academic standards to allow the program to fit easily into a teacher's existing curriculum and requirements. The participating classroom teachers follow the Teacher Book and lesson plan. Information is given to guide lessons throughout the program in order to satisfy each student's individual needs, whether they are

visual, auditory, or kinesthetic learners.

The WaterWise Kit and Student Workbook comprise the take-home portion of the program. Students receive a kit containing high-efficiency measures they use to install within their homes. With the help of their parents/guardians, students install the kit measures and complete a home survey. The act of installing and monitoring new water and energy efficiency devices in their homes allows students to put their learning into practice. Here, participants and their parents/guardians realize actual water and energy savings within their home, benefitting two generations.

A critical element of RAP program design is the use of new knowledge through reporting. At the end of the program, the Victoria County Groundwater Conservation District program team tabulates all participant responses—including home survey information, teacher responses, student letters, and parent feedback—and generates this Program Summary Report.



*“For more than 20 years, Resource Action Programs (RAP) has designed and implemented Measure Based Education<sup>SM</sup> programs that inspire change in household energy and water use while delivering significant, measurable resource savings.”*



# Program Materials

Each participant in the Victoria County Groundwater Conservation District WaterWise™ Program receives classroom materials and energy efficiency kits containing high-efficiency measures to perform the program's take-home activities. Program materials for students, parents/guardians, and teachers are outlined below.

## Each Student/Teacher Receives

Student Guide  
Student Workbook  
Parent/Guardian Program Introduction Letter\*  
Home Survey  
Certificate of Achievement  
WaterWise Kit containing:

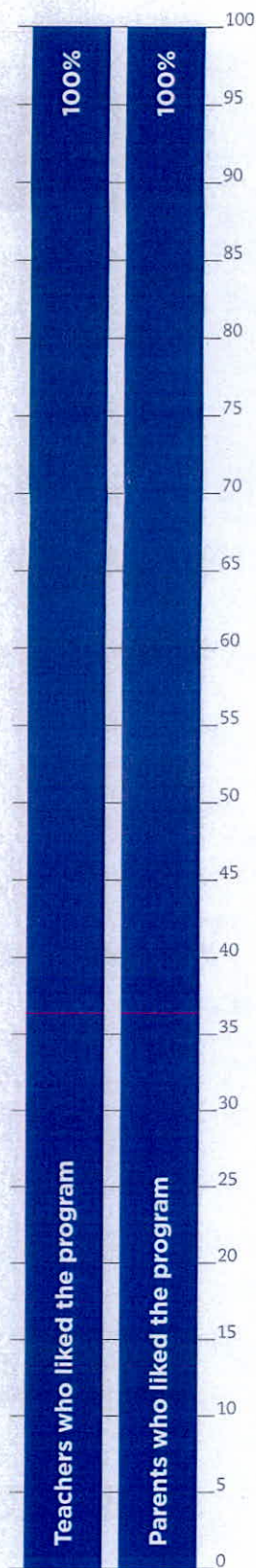
- High-Efficiency Showerhead\*
- Kitchen Faucet Aerator\*
- Bathroom Faucet Aerator\*
- Mini Tape Measure
- Digital Thermometer\*
- Drip/Rain Gauge\*
- Flow Rate Test Bag
- Natural Resources Fact Chart
- Toilet Leak Detector Tablets
- Parent/Guardian Program Evaluation
- Installation DVD

“WaterWise” Wristbands  
Unlimited Interactive Program Website Access  
Toll-Free HELP Line

## Each Teacher/Classroom Receives

Teacher Book  
Step-by-Step Program Checklist  
Lesson Plans  
Teacher Program Evaluation  
Supplemental Activities\*  
Texas State Academic Standards Chart  
Pre/Post Test Answer Keys  
Texas Water Poster  
Self-Addressed Postage-Paid Envelope

\* Materials / Installation Instructions provided in English and Spanish



### Program Customization

The Victoria County Groundwater Conservation District WaterWise™ Program was customized to address Texas water issues and water sources specific to Texas cities. For example, a “Texas Water” classroom poster was developed to help teachers further educate their students on water sources and regionally-specific topics such as drought, subsidence, salt water intrusion, wastewater treatment, aquifers, pumping wells and the Hydrologic Cycle.

The program was also customized to teach the importance of the Water-Energy Nexus which demonstrates that a relationship exists between both water and energy. Students learned that by saving critical water in Texas, energy is saved, and by saving energy, Texas water is also saved. This has helped students and their families reduce water consumption through their behaviors and the installation of efficiency measures.

### Custom Branding

In addition to increasing resource awareness and efficiency, the program has been designed to strengthen bonds between Victoria County Groundwater Conservation District and the community. One of the steps taken to ensure the greatest possible exposure is to feature Victoria County Groundwater Conservation District branding with Texas Water Foundation’s custom design and color scheme in each WaterWise Kit. In addition to the WaterWise Kit, the Teacher Program Evaluation and Parent/Guardian Program Introduction Letter feature Victoria County Groundwater Conservation District branding.



# Program Materials

**TEACHER EVALUATION FORM**

Program brought to you by: \_\_\_\_\_ Date: \_\_\_\_\_  
 School: \_\_\_\_\_  
 Teacher name: \_\_\_\_\_  
 E-mail: \_\_\_\_\_  
 Number of Student Survey Forms returned: \_\_\_\_\_  
 Teacher Signature: \_\_\_\_\_

Please assess the Texas Water Foundation WaterWise™ Program by filling out this Teacher Evaluation Form. Upon completion, return this evaluation, your Student Survey Forms, student thank you notes, and a letter from you to Victoria County Groundwater Conservation District in the postage paid return envelope provided.

**PLEASE FILL IN THE CIRCLES THAT BEST DESCRIBES YOUR OPINION:**

- The materials were clearly written and well organized.
  - Strongly Agree
  - Agree
  - Disagree
  - Strongly Disagree
- The materials in this kit were useful to students to use.
  - Strongly Agree
  - Agree
  - Disagree
  - Strongly Disagree
- Which assessment activities did you complete? (Mark all that apply)
  - Classroom Games
  - Student Cards
  - News for You
  - Student Survey
  - Student Signage
- Students indicated that their parents completed the Program.
  - Yes
  - No
- Would you recommend this Program to other colleagues?
  - Yes
  - No
- Would you be willing to participate on a local Teacher Advisory Board?
  - Yes
  - No
- If my school is unable to participate next year, I would like to email.
  - Yes
  - No
- What did students like best about the Program? Explain. \_\_\_\_\_
- What did you like best about the Program? Explain. \_\_\_\_\_
- What would you change about the Program? Explain. \_\_\_\_\_

**GET YOUR \$50.00 MINI GRANT!**

Return the following by **May 1, 2014**

- 82% of Student Survey Forms
- This evaluation form
- Student Thank-you notes
- A letter from you.

Teacher Evaluation Form

**PARENTS**

**CONGRATULATIONS!**

Your child's class has been selected to participate in the exciting Texas Water Foundation WaterWise™ Program. The program is designed to help you child the value of water and energy and help you save money on your utility bills. This program is being provided by Victoria County Groundwater Conservation District and Texas Water Foundation at NO COST to you, your child's school or the school district.

The average U.S. household saves at least \$3,000 per year in utility bills and can reduce those costs with only a few simple changes. Your child will be given a kit which includes FREE high quality water and energy saving products that utilize the most advanced technology. This kit is valued at over \$50 and will probably also get the utility to make these changes.

To participate, please do the following:

- Send your child to you about the kit they would like to save water and energy and complete the Pledge Form included on the next page.
- Send the installation DVD included in your kit.
- Install all of the kit items. You and your child can do most of the activities in the kit together. If you need additional help regarding the kit items, visit [www.getwise.org](http://www.getwise.org) to view installation videos or call 1-888-GET-WISE.
- Send your child to school all of the survey materials in the Student Workbook.

The Texas Water Foundation WaterWise Program will be an easy and fun experience for your entire family. Not only will it allow your child the chance to be a leader in your home and community, but they'll also help your family will contribute toward lower water utility bills. Thank you for your participation.

**LET'S GET STARTED!**

SIGN + INSTALL = SAVE \$\$\$

QUESTIONS? 1-888-GET-WISE • [www.getwise.org](http://www.getwise.org)

**STUDENTS**

**PLEDGE FORM**

Date: \_\_\_\_\_  
Teacher: \_\_\_\_\_

Water and energy is so important that in conserving our natural resources and lowering our utility bills, as you go through the Program, you will learn why it is so water and energy. The Program will teach you simple ways to save water and energy. Please Pledge that you want to be more water and energy efficient to reduce the \_\_\_\_\_.

**TAKE THE PLEDGE**

By signing your first pledge, all you have to do to complete the first pledge is your kit. Now, save the more advanced technology from you will be more used at home. Remember, a pledge is a promise.

**YOU GET TO INSTALL ALL OF THE ITEMS IN MY KIT TO SAVE WATER AND ENERGY AND TO REDUCE MY FAMILY'S UTILITY BILLS.**

**SIGN THE PLEDGE**

By my promise above and by signing this form, I promise to use water and energy \_\_\_\_\_.

Parent Signature: \_\_\_\_\_

Parent/Guardian Program Introduction/Pledge Letter

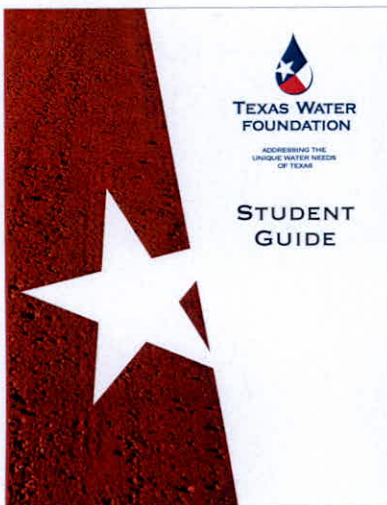
This program is brought to you by:



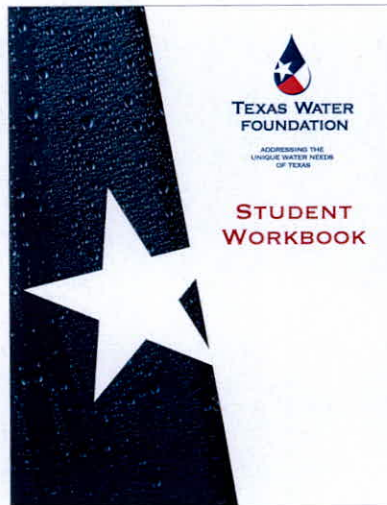
Need help? VISC GETWISE ORG/TEXAS or call our TOLL FREE help line at 1-888-GETWISE

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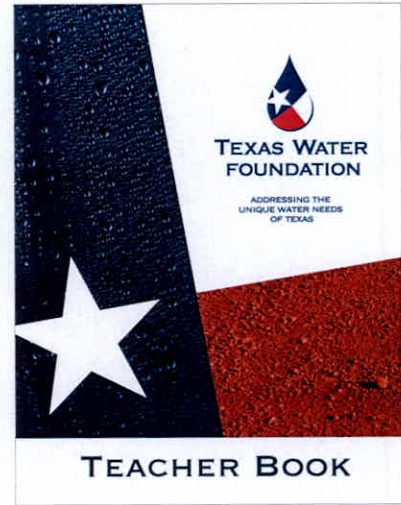
Kit Label



Student Guide



Student Workbook



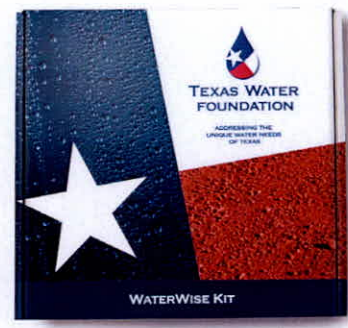
Teacher Book




Poster



Certificate of Achievement



Kit Box



*“The program is very easy to put in place. The lessons were great and the kids loved the activities.”*

**Kelly Lorance, Teacher**

*Aloe Elementary School*

# Program Implementation

The 2013-2014 Victoria County Groundwater Conservation District WaterWise™ Program followed this comprehensive implementation schedule:

1. Identification of Texas state academic standards & benchmarks
2. Curriculum development and refinement (completed annually)
3. Curriculum correlation to Texas state academic standards & benchmarks
4. Materials modification to incorporate Victoria County Groundwater Conservation District branding
5. Incentive program development
6. Teacher/school identification—with Victoria County Groundwater Conservation District approval
7. Teacher outreach and program introduction
8. Teachers enrolled in the program individually
9. Implementation dates scheduled with teachers
10. Program material delivered to coincide with desired implementation date
11. Delivery confirmation
12. Periodic contact to ensure implementation and teacher satisfaction
13. Program completion incentive offered
14. Results collection
15. Program completion incentive delivered to qualifying participants
16. Thank-you cards sent to participating teachers
17. Data analysis
18. Program Summary Report generated and distributed

Participating teachers are free to implement the program to coincide with their lesson plans and class schedules. Appendix C provides a comprehensive list of classrooms in grade 5 that participated during the 2013-2014 school year.

For more than 20 years, Resource Action Programs (RAP) has designed and implemented Measure Based Education<sup>SM</sup> programs that inspire change in household energy and water use while delivering significant, measurable resource savings. All RAP programs feature a proven blend of innovative education, comprehensive implementation services, and hands-on activities to put efficiency knowledge to work in students' homes.

RAP has a strong reputation for providing a high level of client service as part of a wide range of energy efficiency education solutions for utilities, municipalities, states, community agencies, corporations, and more. In 2013, RAP was the only conservation services provider honored by the American Council for an Energy-Efficient Economy (ACEEE) and the Alliance for Water Efficiency (AWE) as one of 12 top programs that provides sustained achievement. RAP was honored for market penetration, innovative design, and its ability to achieve substantial/sustained energy and water savings.



# Program Team

RAP implements nearly 300 individual programs that serve more than 550,000 households each year. All-inclusive program delivery occurs in its 80,000 square-foot Nevada Program Center where implementation teams and support departments work together to provide:

- 1:1 teacher support
- Curriculum development
- Customized materials
- Data tracking and reporting
- Water and energy efficiency measures
- Graphic and web design
- Kit assembly
- Marketing communications
- Shipping
- Printing
- Program management
- Participant enrollment
- Warehousing

## The Implementation Team


For the Victoria County Groundwater Conservation District WaterWise Program, RAP assigned a specific implementation team to Victoria County Groundwater Conservation District made up of a PMP®-designated Program Manager; CEM®-designated energy analyst, graphic designer, outreach personnel, educator, and administrative staff. This team immersed themselves into the Victoria County Groundwater Conservation District brand,

and handled all program implementation for Victoria County Groundwater Conservation District. Victoria County Groundwater Conservation District also received the benefit of fully staffed support departments which worked with the implementation team to define success for Victoria County Groundwater Conservation District. These departments include education, marketing, information technology, and warehouse/logistics.

## Continuous Improvement

In addition to successful implementation of the Victoria County Groundwater Conservation District WaterWise Program, RAP engages in continuous program improvement, as well as enhancements to educational materials, with modifications based on emerging technology, industry trends, and EM&V findings.

As part of this plan, RAP utilizes an extensive network of educators for program feedback. This feedback ensures that educational components meet the changing needs of educators, keep information relevant to students, and, in turn, provide increased energy literacy amongst program participants.



*“Upon completion of the program, participating families are asked to complete a home survey to assess their resource use, verify product installation, provide demographic information, and measure participation rates.”*



# Program Impact

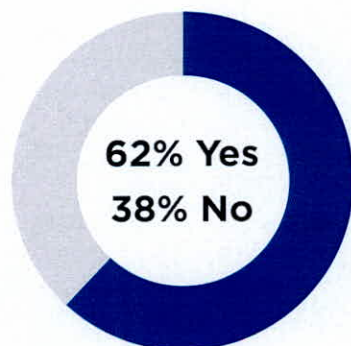
The Victoria County Groundwater Conservation District WaterWise™ Program has had a significant impact within the community. As illustrated below, the program successfully educated participants about water and energy efficiency while generating resource savings through the installation of efficiency measures in homes. Home survey information was collected to track projected savings and provide household consumption and demographic data. Program evaluations and comments were collected from teachers, students and parents. The following program elements were used to collect this data:

## A. Home Survey

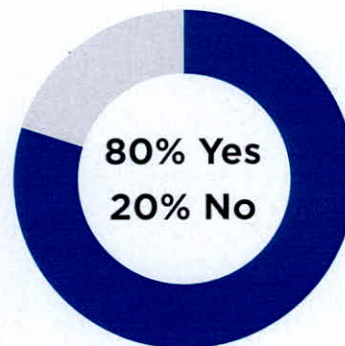
Upon completion of the program, participating families are asked to complete a home survey to assess their resource use, verify product installation, provide demographic information and measure participation rates. A few samples of questions asked are below while a complete summary of all responses is included in the appendices.

**Did your family install the new High-Efficiency Showerhead?**  
**Did your family change the way they use water?**

**Yes - 62%**  
**Yes - 80%**



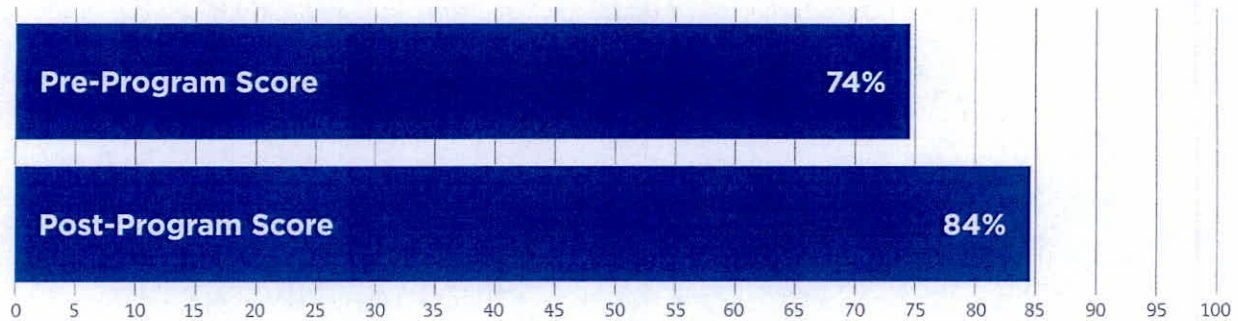
*Students who indicated they lowered their water heater setting.*



*Students who indicated their family changed the way they use water.*

## B. Pre-Program and Post-Program Tests

Students were asked to complete a nine-question test before the program was introduced and then again after it was completed to determine the knowledge gained through the program. The average student answered **74%** of the questions correctly prior to being involved in the program and then improved to answer **84%** of the questions correctly following participation.



## C. Home Activities

As part of the program, parents and students installed resource efficiency measures in their homes. They also measured the pre-existing devices to calculate savings that they generated. Using the family habits collected from the home survey as the basis for this calculation, 285 households are expected to save the following resource totals. Savings from these actions and new behaviors will continue for many years to come.

### Projected Resource Savings

*A list of assumptions and formulas used for these calculations can be found in Appendix A.*

<b>Number of Participants:</b>	<b>285</b>		
	<b>Annual</b>	<b>Lifetime</b>	
Projected reduction from Showerhead retrofit:	<b>1,293,507</b>	<b>12,935,068</b>	gallons
Product Life: <b>10 years</b>	<b>2,507</b>	<b>25,067</b>	therms
	<b>119,833</b>	<b>1,198,327</b>	kWh
Projected reduction from Kitchen Faucet Aerator retrofit:	<b>1,000,232</b>	<b>5,001,159</b>	gallons
Product Life: <b>5 years</b>	<b>1,434</b>	<b>7,168</b>	therms
	<b>66,934</b>	<b>334,670</b>	kWh
Projected reduction from Bathroom Faucet Aerator retrofit:	<b>852,995</b>	<b>4,264,975</b>	gallons
Product Life: <b>5 years</b>	<b>1,223</b>	<b>6,113</b>	therms
	<b>57,081</b>	<b>285,405</b>	kWh
<b>TOTAL PROJECTED PROGRAM SAVINGS:</b>	<b>3,146,734</b>	<b>22,201,202</b>	gallons
	<b>5,163</b>	<b>38,348</b>	therms
	<b>243,848</b>	<b>1,818,402</b>	kWh
<b>TOTAL PROJECTED PROGRAM SAVINGS PER HOUSEHOLD:</b>	<b>11,041</b>	<b>77,899</b>	gallons
	<b>18</b>	<b>135</b>	therms
	<b>856</b>	<b>6,380</b>	kWh

## D. Teacher Program Evaluation

Program improvements are based on participant feedback received. One of the types of feedback obtained is from participating teachers via a Teacher Program Evaluation Form. They are asked to evaluate relevant aspects of the program, and each response is reviewed for pertinent information. The following is feedback from the Teacher Program Evaluation for the Victoria County Groundwater Conservation District WaterWise Program.

### Teacher Response

*(A summary of responses can be found in Appendix D)*

**100%** of participating teachers indicated they would conduct the program again given the opportunity.

**100%** of participating teachers indicated they would recommend the program to their colleagues.

### What did students like best about the program? Explain.

*"The classroom activities and take home kits."*

**Lovie Sayles-Clark, Aloe Elementary School**

*"Very clear and easy to understand, short lessons and to the point."*

**Kelly Lorange, Aloe Elementary School**

*"That they were able to work on it with their family at home."*

**Teralee Barnett, Aloe Elementary School**

*"The students enjoyed the visual of the world's water resources by using a candy bar."*

**Terri Ratliff, Aloe Elementary School**

### What did you like best about the program? Explain.

*"The information and activities."*

**Lovie Sayles-Clark, Aloe Elementary School**

*"Very easy to put in place. The lessons were great and the kids loved the activities."*

**Kelly Lorange, Aloe Elementary School**

*"That each student was provided with a kit to take home."*

**Teralee Barnett, Aloe Elementary School**

*"I liked the numerous resources as well as hands-on products their family could use to save money and help conserve water."*

**Terri Ratliff, Aloe Elementary School**

## **Teacher Response**

*(A summary of responses can be found in Appendix D)*

**What would you change about the program? Explain.**

**"N/A."**

**Lovie Sayles-Clark, Aloe Elementary School**

**"None!"**

**Teralee Barnett, Aloe Elementary School**

***"I would add TEKS and ELPS to the plans."***

**Terri Ratliff, Aloe Elementary School**

## E. Teacher Letters

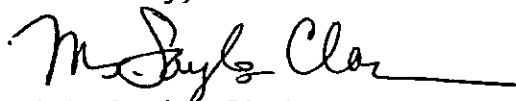
(A summary of responses can be found in Appendix E)

April 21, 2014

To whom this may concern,

I would like to thank you for your generosity and information you so kindly extended to our students to learn more about conservation. My class thoroughly enjoyed the activities and the chance to go home and inform their family about what they learned. The kits were an extra bonus, for they were not expecting to receive the tools needed to assist them in saving water at home without paying for it. The parents and students were really excited about the program and with that said, it's been another year of quality tools and information we could use to help explain why we should save water and the importance of it.

Sincerely,



Ms. Sayles-Clark

## Teacher Letters

(A summary of responses can be found in Appendix E)

April 30, 2014

Dear Texas Water Foundation,

Thank you so much for providing the material for my fifth grade class to learn about the importance of conserving water. The importance of the issue was powerfully stated and came to life in the lessons you provided. I was also fantastic that you not only taught them about the problem, but equipped them with tools they could use in their own homes to help to lessen the problem at hand. My students were excited to instruct their parents about the issue of water conservation and many chose to use the materials you provided.

Thanks again for providing this beneficial lesson. I hope you continue this for years to come.

Sincerely,



Terri Ratliff

Aloe Elementary

## F. Student Letters

(A summary of responses can be found in Appendix F)

Dear, Victoria county

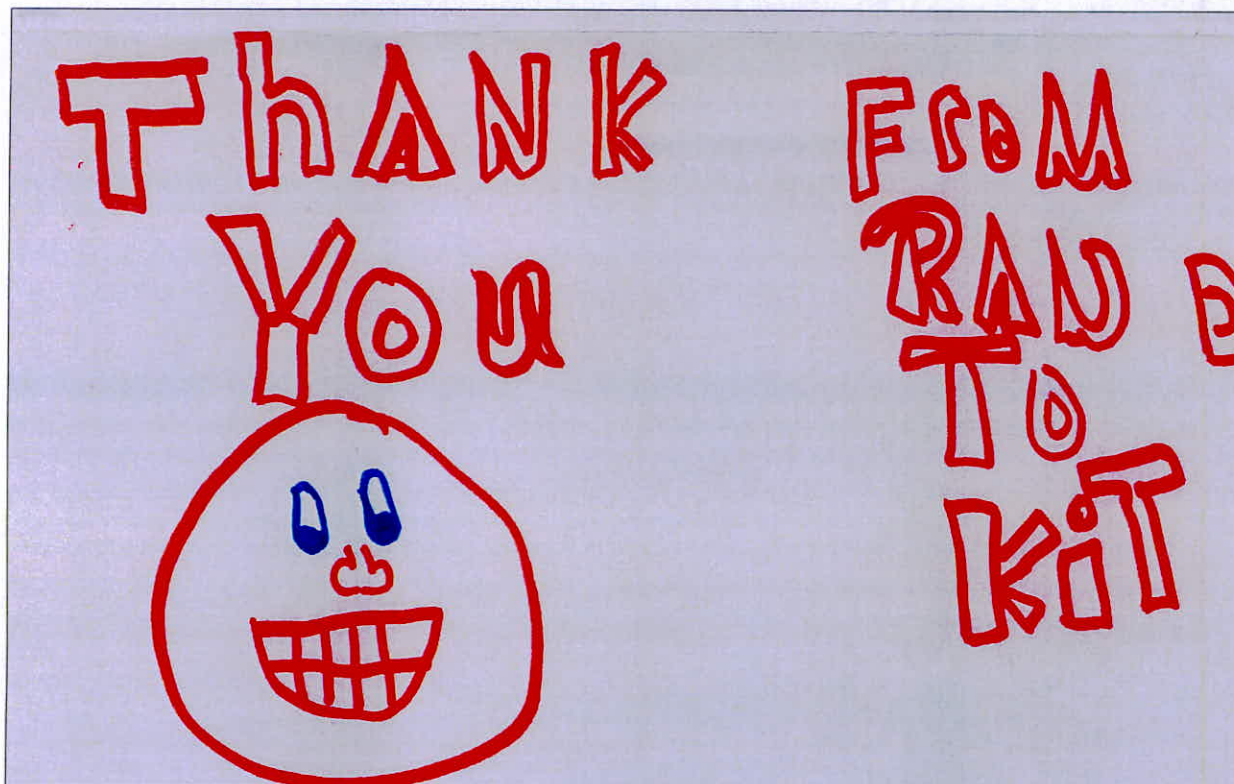
Thank you for teaching me about how to conserve water anywhere. I liked the new faucets and showerhead that you gave us in are kit. They were very cool. I've learned so much about saving water, I didn't know that it was so easy. Saving water is very important to us. You can start know because it's so easy. The kit was great because my old Showerhead it gave lots of water and now I've kept it and it gives less water. Thank you for giving us are kit, and teaching us.

from, Kayleigh Stillwell

Dear Victoria County,

Thank you for letting us have those kits. I was also alot of fun doing the experiments. I also want to thank you for all that y'all do, like letting us use those kits. I know that those kits were not cheap. I also understand that you could have just gave us work to do, but insted you made it fun. Thank you for all that y'all do and for now on I will be more careful about how much water you use. I is just a wast of water aswell as money.

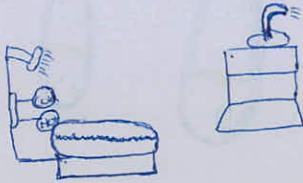
Your Freind,  
Cassidy Morris





## Student Letters

(A summary of responses can be found in Appendix F)



Thank you!!!



Thank you for giving us our water supply to save money it helped me a lot. And now we don't have no more leaks. Thank you for giving us the book it gave me a lot of information and it will help me on my Staar test.



Dear Victoria County,

Thank you for giving us a show kit to take home. I have learned how to conserve water and three ways I do it is by 1. when I'm washing my hands I cut off the water when I'm rubbing my hands with soap. 2. when brushing my teeth I cut the water off so we don't waste it. 3. when watering the plants I bend the water hoses so water does not waste. I have had a great time learning about water saves and how to conserve. Thank you for every thing.

Nina Garcia,

Victoria County,

Dear Victoria County,

I would like to thank you for sending a kit even though it cost a lot. I really appreciated your company giving us a chance to learn how to conserve and the chance to conserve. I think it is really important to conserve than waste valuable water. I really learned a lot about water and how it is filtered. I am grateful for the free kit and booklets. I hope you continue to tell kids about water conservation and explain it to them.

Thanks,  
Desiree  
McCrory

## Student Letters

(A summary of responses can be found in Appendix F)



Dear Water Wise People,  
From Travis

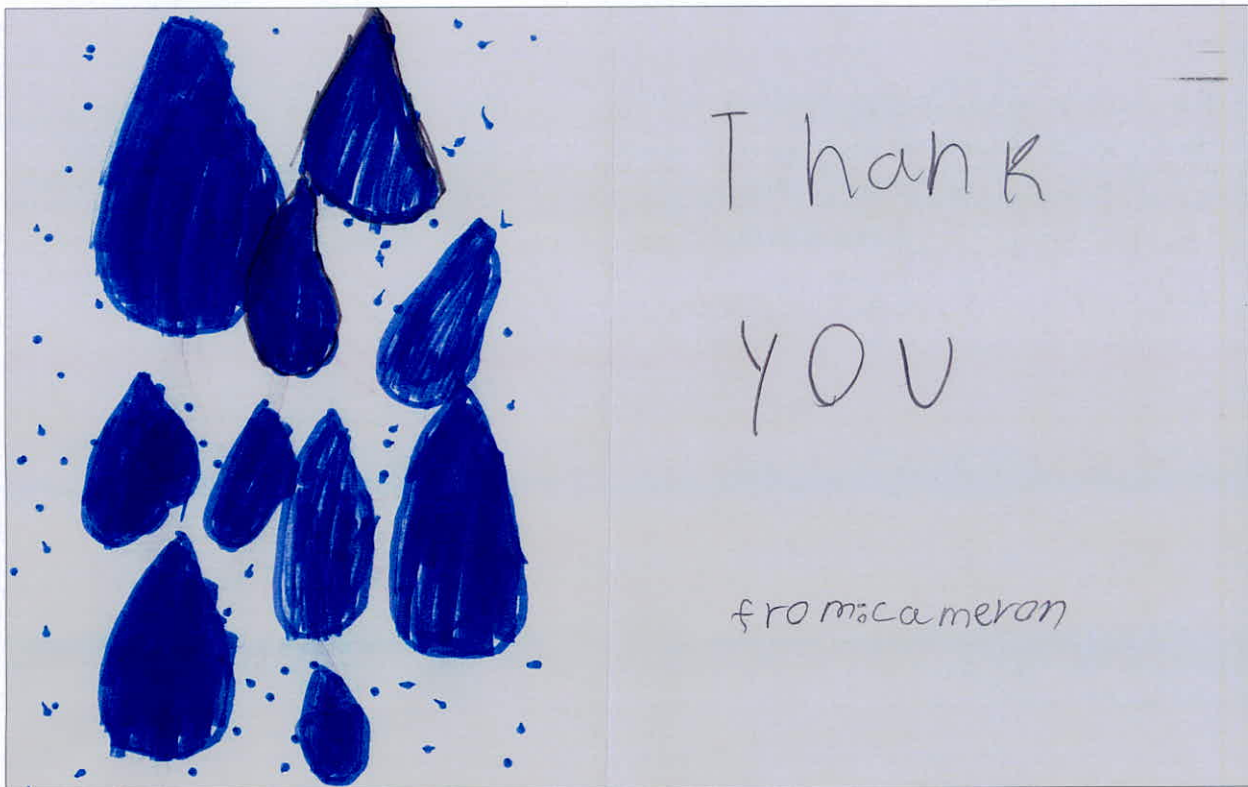
Thanks For Giving me the Thanks and my Family me and my Family really appreciate you for giving us the Waterwise it helped us alot because we were low on money and that helped us save money. I hope you do this again. So Thank You and halloay loway! From Travis

Dear Victoria County  
Thank you for giving us the Books and teaching us about the Waterwise program to save water. I think it is great that you have this plan to save water and give us a kit to use and install in our home. Although I did not use it but I bet that it would be a big success. I thank you for doing all this for me and my class at Aloe Elementary. Words can't describe how thankful I am for the Victoria water wise program. I wish I could have used it but my classmates Mark told me how great it is thank you.

From: Shane Barker

## Student Letters

(A summary of responses can be found in Appendix F)




Dear Victoria County,

Thank you for the kit it has really helped my family. It has saved us tons of water and electricity and money. By saving money we are able to fix the damages to our house. By saving water and electricity bills go way down and also save us money to help homeless and buy groceries and give to charity and help the people in need.

Your friend Joseph P.

Dear Victoria County, thank you for letting me have the kit. Thank you for teaching me good Ideas, I will use them. Thank you for teaching me about the water wise program. Thank you for giving the world grade Ideas. Thank you for the bracelet and the certificate. It was very usefull to me, I find it quite intristing. I appreciate it, you didn't have to do it.

From: Lidia N.  
At Aloe Ellementry



*“I liked the numerous resources as well as hands-on products their family could use to save money and help conserve water.”*

**Terri Ratliff, Teacher**

*Aloe Elementary School*

# Appendices

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## Projected Savings from Showerhead Retrofit

### Showerhead retrofit inputs and assumptions:

Average household size:	<b>5.54</b> people <sup>1</sup>
Average number of full bathrooms per home:	<b>1.80</b> full bathrooms per home <sup>1</sup>
% of water heated by gas:	<b>29.50%</b> <sup>1</sup>
% of water heated by electricity:	<b>70.50%</b> <sup>1</sup>
Installation / participation rate of:	<b>68.79%</b> <sup>1</sup>
Average showerhead has a flow rate of:	<b>2.02</b> gallons per minute <sup>1</sup>
Retrofit showerhead has flow rate of:	<b>0.95</b> gallons per minute <sup>1</sup>
Number of Participants:	<b>285</b> <sup>1</sup>
Shower duration:	<b>8.20</b> minutes per day <sup>2</sup>
Showers per day per person:	<b>0.67</b> showers per day <sup>2</sup>
Product life:	<b>10.00</b> years <sup>3</sup>

### Projected Water Savings:

Showerhead retrofit projects an <b>annual</b> reduction of:	<b>1,293,507</b> gallons <sup>4</sup>
Showerhead retrofit projects a <b>lifetime</b> reduction of:	<b>12,935,068</b> gallons <sup>5</sup>

### Projected Electricity Savings:

Showerhead retrofit projects an <b>annual</b> reduction of:	<b>119,833</b> kWh <sup>2,6</sup>
Showerhead retrofit projects a <b>lifetime</b> reduction of:	<b>1,198,327</b> kWh <sup>2,7</sup>

### Projected Natural Gas Savings:

Showerhead retrofit projects an <b>annual</b> reduction of:	<b>2,507</b> therms <sup>2,8</sup>
Showerhead retrofit projects a <b>lifetime</b> reduction of:	<b>25,067</b> therms <sup>2,9</sup>

<sup>1</sup> Data Reported by Program Participants.

<sup>2</sup> (March 4, 2010). EPA WaterSense® Specification for Showerheads Supporting Statement. Retrieved from [http://www.epa.gov/WaterSense/docs/showerheads\\_finalsupstat508.pdf](http://www.epa.gov/WaterSense/docs/showerheads_finalsupstat508.pdf)

<sup>3</sup> Provided by manufacturer.

<sup>4</sup> [(Average Household Size x Shower Duration x Showers per Day per Person) ÷ Average Number of Full Bathrooms per Home] x (Average Showerhead Flow Rate - Retrofit Showerhead Flow Rate) x Number of Participants x Installation Rate x 365 days

<sup>5</sup> [(Average Household Size x Shower Duration x Showers per Day per Person) ÷ Average Number of Full Bathrooms per Home] x (Average Showerhead Flow Rate - Retrofit Showerhead Flow Rate) x Number of Participants x Installation Rate x 365 days x Product Life

<sup>6</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.18 kWh/gal x % of Water Heated by Electricity

<sup>7</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.18 kWh/gal x % of Water Heated by Electricity x Product Life

<sup>8</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.009 Therms/gal x % of Water Heated by Natural Gas

<sup>9</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.009 Therms/gal x % of Water Heated by Natural Gas x Product Life

## Projected Savings from Kitchen Faucet Aerator Retrofit

### Kitchen Faucet Aerator retrofit inputs and assumptions:

Average household size:	5.54	people <sup>1</sup>
% of homes with a dishwasher:	52.08%	<sup>1</sup>
% of homes without a dishwasher:	47.92%	<sup>1</sup>
% of water heated by gas:	29.50%	<sup>1</sup>
% of water heated by electricity:	70.50%	<sup>1</sup>
Installation / participation rate of:	74.83%	<sup>1</sup>
Number of Participants:	285	<sup>1</sup>
Average Kitchen Faucet Aerator has a flow rate of:	2.50	gallons per minute <sup>2</sup>
Retrofit Kitchen Faucet Aerator has flow rate of:	1.50	gallons per minute <sup>3</sup>
Product life:	5.00	years <sup>3</sup>
Length of use without dishwasher:	15.00	minutes per day <sup>4</sup>
Length of use without dishwasher (each family member):	1.00	minute per day <sup>4</sup>
Length of use with dishwasher:	3.00	minutes per day <sup>4</sup>
Length of use with dishwasher (each family member):	0.50	minutes per day <sup>4</sup>

### Projected Water Savings:

Kitchen Faucet Aerator retrofit projects an <b>annual</b> reduction of:	1,000,232	gallons <sup>5</sup>
Kitchen Faucet Aerator retrofit projects a <b>lifetime</b> reduction of:	5,001,159	gallons <sup>6</sup>

### Projected Electricity Savings:

Kitchen Faucet Aerator retrofit projects an <b>annual</b> reduction of:	66,934	kWh <sup>4,7</sup>
Kitchen Faucet Aerator retrofit projects a <b>lifetime</b> reduction of:	334,670	kWh <sup>4,8</sup>

### Projected Natural Gas Savings:

Kitchen Faucet Aerator retrofit projects an <b>annual</b> reduction of:	1,434	therms <sup>4,9</sup>
Kitchen Faucet Aerator retrofit projects a <b>lifetime</b> reduction of:	7,168	therms <sup>4,10</sup>

1 Data Reported by Program Participants.

2 Vickers, Amy (2002). *Water Use and Conservation*. Amherst, MA: WaterPlow Press.

3 Provided by manufacturer.

4 Quantec, LLC. (2008). *Impact of Flipping the Switch: Evaluating the Effectiveness of Low Income Residential Energy Education Programs*. Portland: Drakos, Jamie et al.

5  $(\text{Length of use without dishwasher} + [\text{Average household size} \times \text{Length of use without dishwasher (each family member)}]) \times \% \text{ of homes without dishwasher} + (\text{Length of use with dishwasher} + [\text{Average household size} \times \text{Length of use with dishwasher (each family member)}]) \times \% \text{ of homes with dishwasher} \times [\text{Average Kitchen Aerator flow rate} - \text{Retrofit Kitchen Aerator flow rate}] \times \text{Number of participants} \times \text{Installation rate} \times 365 \text{ days}$

6  $(\text{Length of use without dishwasher} + [\text{Average household size} \times \text{Length of use without dishwasher (each family member)}]) \times \% \text{ of homes without dishwasher} + (\text{Length of use with dishwasher} + [\text{Average household size} \times \text{Length of use with dishwasher (each family member)}]) \times \% \text{ of homes with dishwasher} \times [\text{Average Kitchen Aerator flow rate} - \text{Retrofit Kitchen Aerator flow rate}] \times \text{Number of participants} \times \text{Product Life}$

7 Projected Annual Water Savings  $\times [(8.33\text{lbs.} / \text{gallon} \times 35^\circ\text{F}\Delta\text{T}) \div (3413 \times \text{water heater efficiency (0.90)})] \times \% \text{ of Water Heated by Electricity}$

8 Projected Lifetime Water Savings  $\times [(8.33\text{lbs.} / \text{gallon} \times 35^\circ\text{F}\Delta\text{T}) \div (3413 \times \text{water heater efficiency (0.90)})] \times \% \text{ of Water Heated by Electricity}$

9 Projected Annual Water Savings  $\times [(8.33\text{lbs.} / \text{gallon} \times 35^\circ\text{F}\Delta\text{T}) \div (100,000 \times \text{water heater efficiency (0.60)})] \times \% \text{ of Water Heated by Natural Gas}$

10 Projected Lifetime Water Savings  $\times [(8.33\text{lbs.} / \text{gallon} \times 35^\circ\text{F}\Delta\text{T}) \div (100,000 \times \text{water heater efficiency (0.60)})] \times \% \text{ of Water Heated by Natural Gas}$

## Projected Savings from Bathroom Faucet Aerator Retrofit

### Bathroom Faucet Aerator retrofit inputs and assumptions:

Average household size:	<b>5.54</b>	people <sup>1</sup>
% of water heated by gas:	<b>29.50%</b>	<sup>1</sup>
% of water heated by electricity:	<b>70.50%</b>	<sup>1</sup>
Installation / participation rate of:	<b>65.73%</b>	<sup>1</sup>
Number of Participants:	<b>285</b>	<sup>1</sup>
Average Bathroom Faucet Aerator has a flow rate of:	<b>2.50</b>	gallons per minute <sup>2</sup>
Retrofit Bathroom Faucet Aerator has flow rate of:	<b>1.00</b>	gallons per minute <sup>3</sup>
Product life:	<b>5.00</b>	years <sup>3</sup>
Length of use (per family member):	<b>1.50</b>	minutes per day <sup>4</sup>

### Projected Water Savings:

Bathroom Faucet Aerator retrofit projects an <b>annual</b> reduction of:	<b>852,995</b>	gallons <sup>5</sup>
Bathroom Faucet Aerator retrofit projects a <b>lifetime</b> reduction of:	<b>4,264,975</b>	gallons <sup>6</sup>

### Projected Electricity Savings:

Bathroom Faucet Aerator retrofit projects an <b>annual</b> reduction of:	<b>57,081</b>	kWh <sup>4,7</sup>
Bathroom Faucet Aerator retrofit projects a <b>lifetime</b> reduction of:	<b>285,405</b>	kWh <sup>4,8</sup>

### Projected Natural Gas Savings:

Bathroom Faucet Aerator retrofit projects an <b>annual</b> reduction of:	<b>1,223</b>	therms <sup>4,9</sup>
Bathroom Faucet Aerator retrofit projects a <b>lifetime</b> reduction of:	<b>6,113</b>	therms <sup>4,10</sup>

<sup>1</sup> Data Reported by Program Participants.

<sup>2</sup> Vickers, Amy (2002). *Water Use and Conservation*. Amherst, MA: WaterFlow Press.

<sup>3</sup> Provided by manufacturer.

<sup>4</sup> Quantec, LLC. (2008). *Impact of Flipping the Switch: Evaluating the Effectiveness of Low Income Residential Energy Education Programs*. Portland: Drakos, Jamie et al.

<sup>5</sup> [Length of use (each family member) x Average household size] x [Average Bathroom Aerator flow rate – Retrofit Bathroom Aerator flow rate] x Number of participants x Installation rate x 365 days

<sup>6</sup> [Length of use (each family member) x Average household size] x [Average Bathroom Aerator flow rate – Retrofit Bathroom Aerator flow rate] x Number of participants x Installation rate x 365 days x Product Life

<sup>7</sup> Projected Annual Water Savings x [(8.33lbs. / gallon x 35°FΔT) ÷ (3413 x water heater efficiency (0.90))] x % of Water Heated by Electricity

<sup>8</sup> Projected Lifetime Water Savings x [(8.33lbs. / gallon x 35°FΔT) ÷ (3413 x water heater efficiency (0.90))] x % of Water Heated by Electricity

<sup>9</sup> Projected Annual Water Savings x [(8.33lbs. / gallon x 35°FΔT) ÷ (100,000 x water heater efficiency (0.60))] x % of Water Heated by Natural Gas

<sup>10</sup> Projected Lifetime Water Savings x [(8.33lbs. / gallon x 35°FΔT) ÷ (100,000 x water heater efficiency (0.60))] x % of Water Heated by Natural Gas



## Home Check-Up

<b>1</b> What type of home do you live in?	
Single family home (mobile)	21%
Single family home (manufactured)	4%
Single family home (built)	47%
Multi-family Home (2-4 units)	4%
Multi-family home (5-20 units)	21%
Multi-family home (21+ units)	2%
<b>2</b> Was your home built before 1992?	
Yes	42%
No	58%
<b>3</b> Is your home owned or rented?	
Owned	71%
Rented	29%
<b>4</b> How many kids live in your home (age 0-17)?	
1	11%
2	22%
3	25%
4	20%
5+	22%
<b>5</b> How many adults live in your home (age 18+)?	
1	9%
2	64%
3	15%
4	8%
5+	5%
<b>6</b> Does your home have programmable outdoor sprinkler system?	
Yes	8%
No	92%
<b>7</b> Does your home have a dishwasher?	
Yes	52%
No	48%
<b>8</b> How many half-bathrooms are in your home?	
0	76%
1	14%
2	9%
3	1%
4+	0%

*Due to rounding of numbers, percentages may not add up to 100%*

## Home Check-Up

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(continued)

**9** How many full bathrooms are in your home?

1	31%
2	62%
3	4%
4	1%
5+	1%

**10** How many toilets are in your home?

1	29%
2	62%
3	6%
4	1%
5+	2%

**11** How is your water heated?

Natural Gas	29%
Electricity	71%

Due to rounding of numbers, percentages may not add up to 100%

## Home Activities

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<b>1</b> What is the flow rate of your old showerhead?	
0 - 1.0 gpm	13%
1.1 - 1.5 gpm	13%
1.6 - 2.0 gpm	13%
2.1 - 2.5 gpm	33%
2.6 - 3.0 gpm	25%
3.1+ gpm	3%
<b>2</b> Did you install the new High-Efficiency Showerhead?	
Yes	69%
No	31%
<b>3</b> If you answered "yes" to question 2, what is the flow rate of your new showerhead?	
0 - 1.0 gpm	53%
1.1 - 1.5 gpm	32%
1.6 - 2.0 gpm	15%
<b>4</b> Did your family install the Kitchen Faucet Aerator?	
Yes	75%
No	25%
<b>5</b> Did your family install the Bathroom Faucet Aerator?	
Yes	66%
No	34%
<b>6</b> Did your family lower your water heater settings?	
Yes	62%
No	38%
<b>7</b> Was your toilet leaking?	
Yes	35%
No	65%
<b>8</b> If you answered "yes" to question 7, were the leaks repaired?	
Yes	69%
No	31%
<b>9</b> How many faucets are leaking?	
0	55%
1	23%
2	18%
3	4%
4	1%
5	0%

*Due to rounding of numbers, percentages may not add up to 100%*

## Home Activities

(continued)

<b>10</b> If you answered "yes" to question 9, were the leaks repaired?	
Yes, all of them	49%
Yes, some of them	17%
No	34%
<b>11</b> Did your family adjust the outdoor watering schedule?	
Yes	44%
No	56%
<b>12</b> Did you work with your family on this Program?	
Yes	85%
No	15%
<b>13</b> Did your family change the way they use water?	
Yes	80%
No	20%
<b>14</b> How would you rate the WaterWise™ Program?	
Great	48%
Pretty good	29%
Okay	20%
Not so good	3%

Due to rounding of numbers, percentages may not add up to 100%

## Participant List

SCHOOL NAME	TEACHER NAME	T	S
Aloe Elementary School	Kelly Lorance	1	25
Aloe Elementary School	Lovie Sayles-Clark	1	25
Aloe Elementary School	Teralee Barnett	1	25
Aloe Elementary School	Terri Ratliff	1	25
Bloomington Elementary School	Kathy Westerman	1	80
Guadalupe Elementary School	Brandy Bowers	1	27
Mission Valley Elementary School	Brenda Branton	1	34
Nursery Elementary School	Laura Schulz	1	15
William Wood Elementary School	Rose Williams	1	20
<b>TOTALS</b>		<b>9</b>	<b>276</b>
<b>TOTAL PARTICIPANTS</b>		<b>285</b>	

Note: "T" represents number of teachers and "S" represents number of students

## Teacher Program Evaluation Data

---

<b>1</b> The materials were clearly written and well organized.	
Strongly Agree	100%
Agree	0%
Disagree	0%
Strongly Disagree	0%
<b>2</b> The products in the Kit were easy for students to use.	
Strongly Agree	50%
Agree	50%
Disagree	0%
Strongly Disagree	0%
<b>3</b> Students indicated that their parents supported the program.	
Yes	100%
No	0%
<b>4</b> Would you conduct this Program again?	
Yes	100%
No	0%
<b>5</b> Would you recommend this program to other colleagues?	
Yes	100%
No	0%
<b>6</b> If my school is eligible for participation next year, I would like to enroll.	
Yes	100%
No	0%

*Due to rounding of numbers, percentages may not add up to 100%*

## Teacher Letters

(continued from page 24)

Thank you so much for supplying these kits to my classroom. We loved the daily follow-up activities that followed the lesson the most. I also loved hearing the stories from the students about their experiences with installing the kits!!! I think the kits are a wonderful hands-on activity that everyone enjoyed! Thank you so much!

Kelly Dramer  
5th grade teacher  
A love

## Teacher Letters

(continued)

Thank you!

I would like to thank you for the materials you provided my classroom. My class was super excited about all the hands-on materials they were able to take home and show their parents. The hands on experiments that were provided during the lesson were easy to understand for all learners. Thank you so much for this opportunity, I look forward to doing this again next year.

Barnett

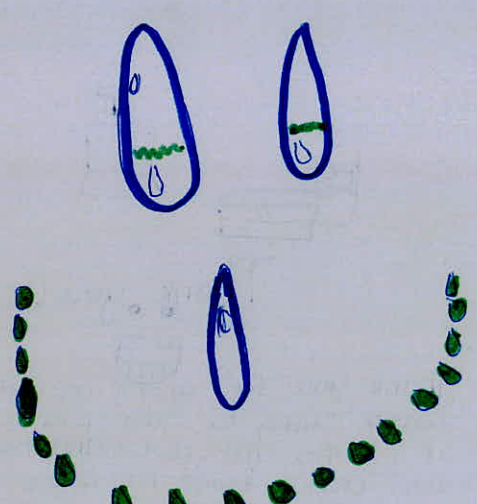


Student Letters

(continued from page 26)

Brianna 4-17-14  
 Dear Victory county,  
 thank you for the box of the water tools. I didn't use any of them except the one to check if I have a leak in the toilet. I appreciate for what I could of used to save energy and water. Sorry my parents doesn't want it, but I will save it just in case I need it. What I have learned is that water is really important wich saves energy if you don't use it that much.



Thank you !!!



from: d. G. G. G.

Dear water works,  
 thank you for the project. It saved my parents alot of money. Thank's you for the free kit. I never knew 2 gallon of water dripping was only to farm in one hour.

Sincerely  
 Kaytlynn Presas

Before	After
	

Dear Victoria Conty,

Thank you for the two water wise books and kits. Even though my family hasn't used it yet I know it will save water and money. We are thankful for all that it will do. It will save the earth and all of the fresh water sply in lakes and rivers. I bet because of Victoria Conty more fresh water sply for us to drink.

Sencerly,  
 Esmeralda

Student Letters

(continued)

Thank you for helping  
me chang the wuld. I  
found out how water  
is cleaned. Thank  
You for helping  
me save money.



X Laney :)




Thank you for giv-  
ing me the water  
kit :) I learned  
that I can clean  
water by replacing  
my old facet or  
finding out that  
my toilet is leaking  
by using those  
little pill looking  
things. Thank you  
for "showing" me how  
to get water clean :)

Student Letters

(continued)

Thank you for the kit. I enjoyed it. The work book it helped me for my SAA R Test. It was better than last year kit this one was better. I was happy.



From Bob

Dear Texas water foundation Date 29/14

Thanks you for the wonderful show that was really awesome what you did I really liked the bag I see him on tv all time I think it will cool for next year if you come thank you again teaching us about electricity and energy thank you.

April 29, 2014

Dear Texas water foundation

Thank you for the water conservation kit that we use. It was fun to learn about water and what would happen if the water ran out and what would happen to us. My favorite part about the conservation kit was all of the things you could change the way we live and use water.

Thank you,  
Sasha

Dear Victoria Water Wise,

I am thankful for being part of your conservation program and I have learned a lot. I learned how to save money and save our aquifer from going dry. The program was fun and the demonstrations help explain the program. We are grateful that you sent the kit to help and all the ways we save the earth. I have no more words, because its that good and I couldn't thank you anymore! :)

Sincerely,  
Joe


Dear Texas Water Foundation,

Thank you for the kit to help us save money. We have saved alot of money to pay our bills. I hope everyone eles has saved alot of money. My favorite Part is the movie to show whats its for. Thank's alot.

Your Friend,  
Kylie Row

Jordan Duckett

I thought it was interesting and I had learned new things. We saved a lot of money and water. Thank you this was a good experience.

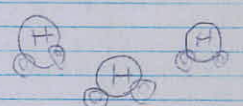


Student Letters

(continued)


2-29-14

Dear Water Foundation  
 thank you for collecting water  
 and cleaning the water  
 for us to drink it helps  
 us take care of plants and  
 animals and collecting  
 the water back into the  
 ponds streams and rivers  
 that helps them <sup>grow</sup>  
 thank you for all you do  
 for the water <sup>helps it grow</sup>  
 again



Thank you very much for  
 the things. Pop upsy ate it  
 love to Pat

to people  
 from Adam



Thank  
 you



Mikey

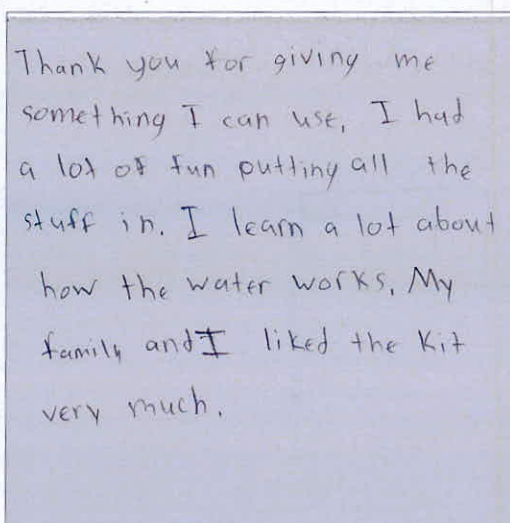
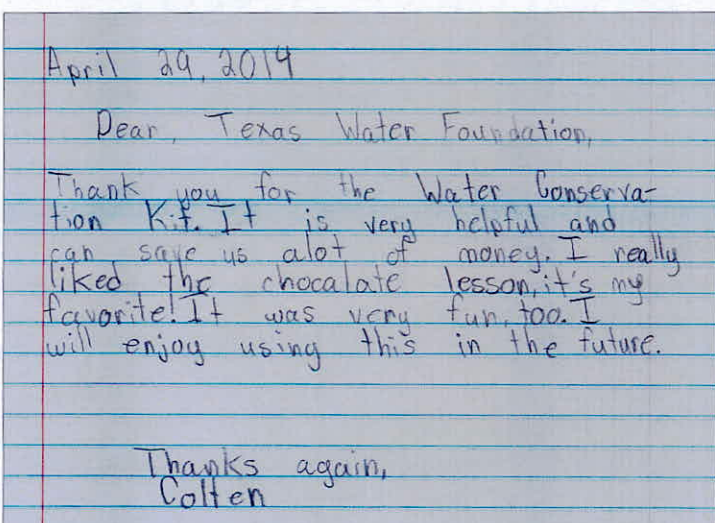
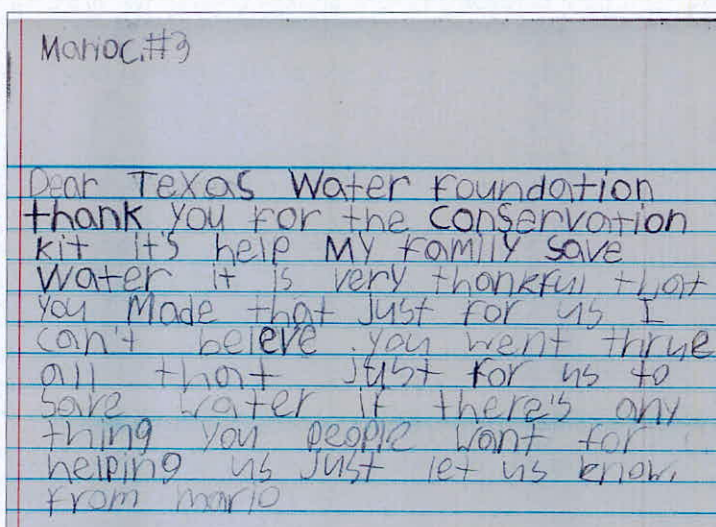
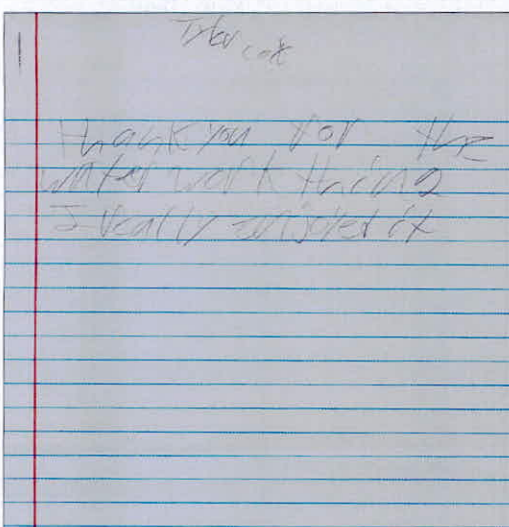
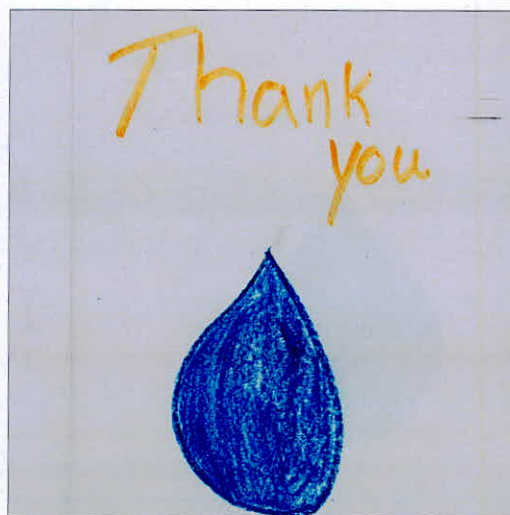
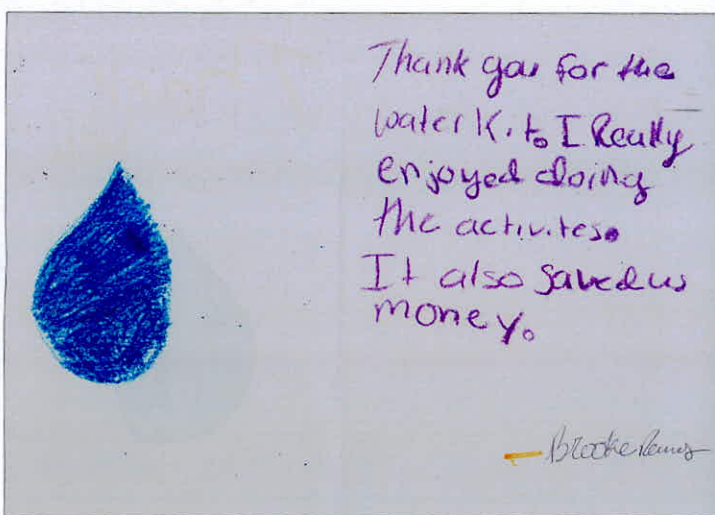
Dear The Texas Water Foundation,  
 4-29-14

Thank you for gathering up every  
 thing up in that box that brings my  
 family savings! My old shower armater  
 used alot of water so im glad you  
 included the new shower head & bag.  
 And also it was just a little  
 hard but thanks for including  
 the disk. Thank you again for the  
 box of savings thanks.

Sincerely,  
 Mikey Carras

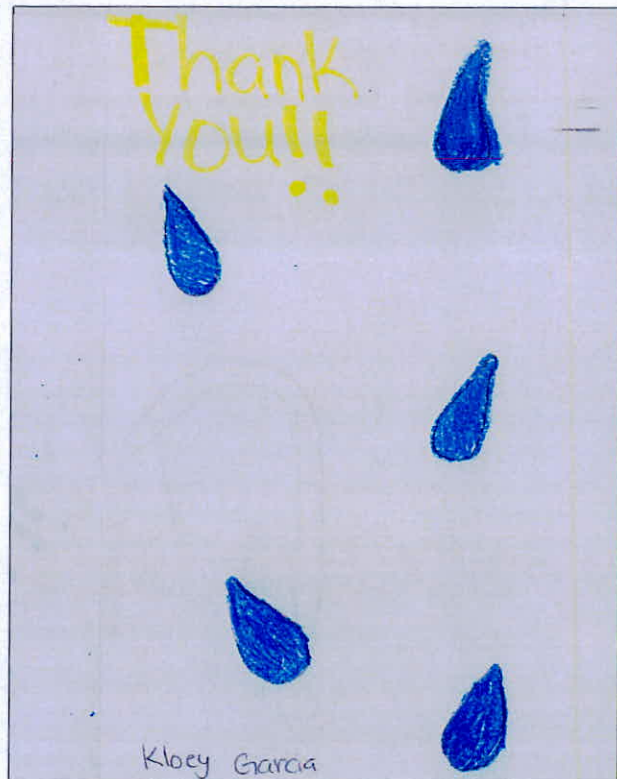
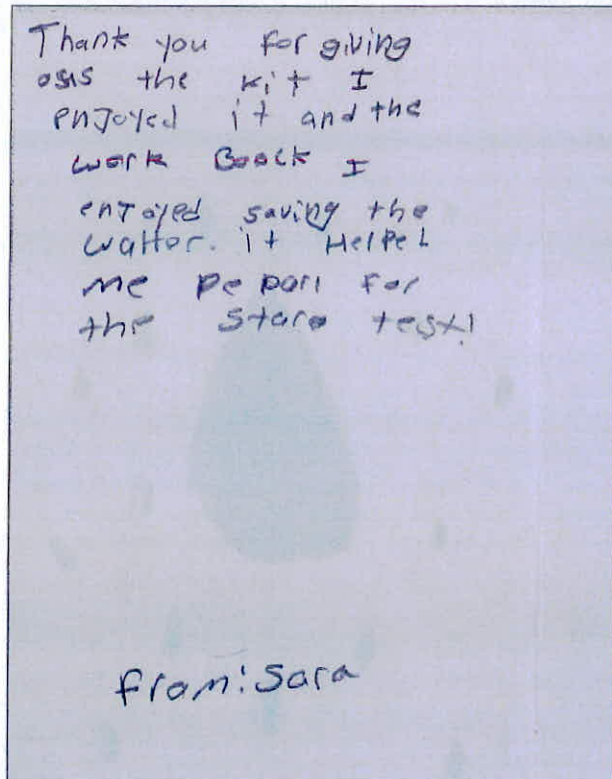
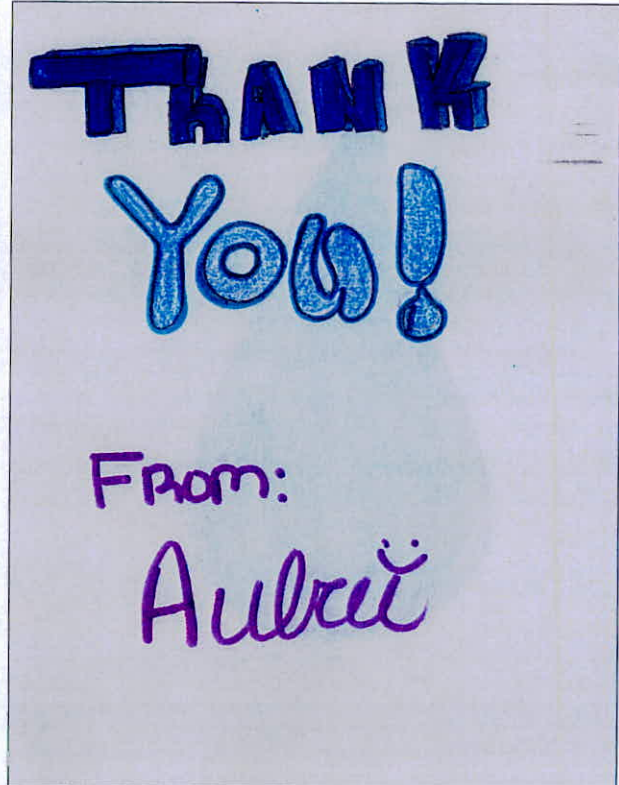
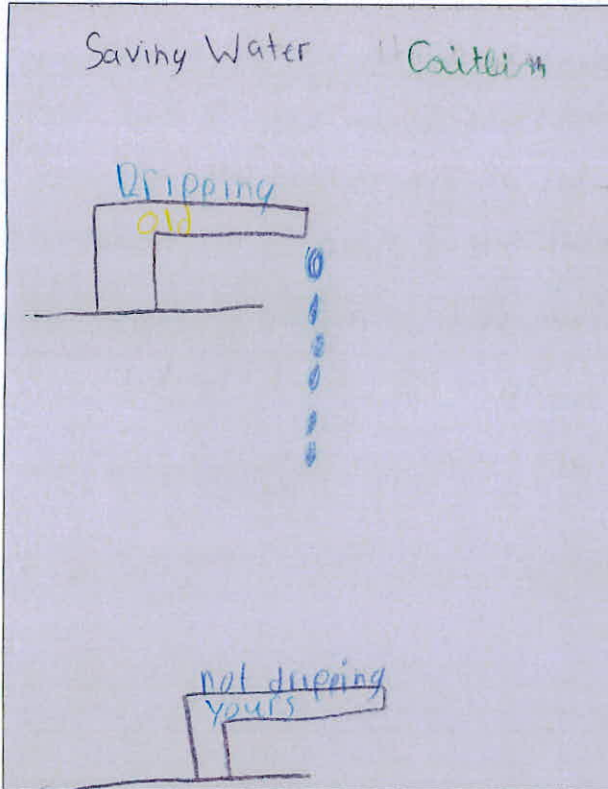
## Student Letters

(continued)



Student Letters

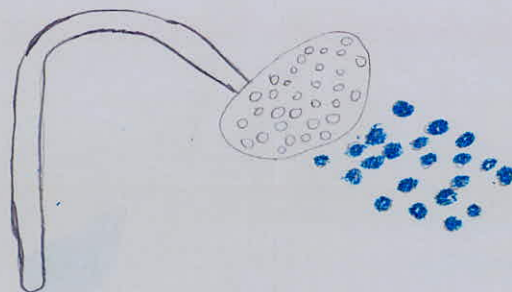
(continued)



## Student Letters

(continued)

Thank you for letting us use the water kit. I really enjoyed it. I got a lot of information and the workbook really helped me and it's gonna help me on my Science STAAR test. I'm really glad you let our classroom use the kits cause it help our whole class and gave us a lot of information.



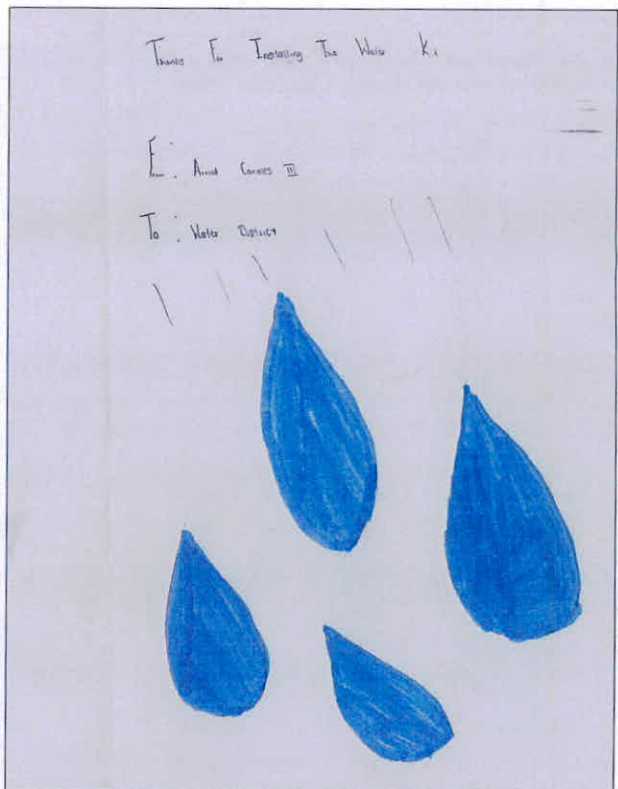
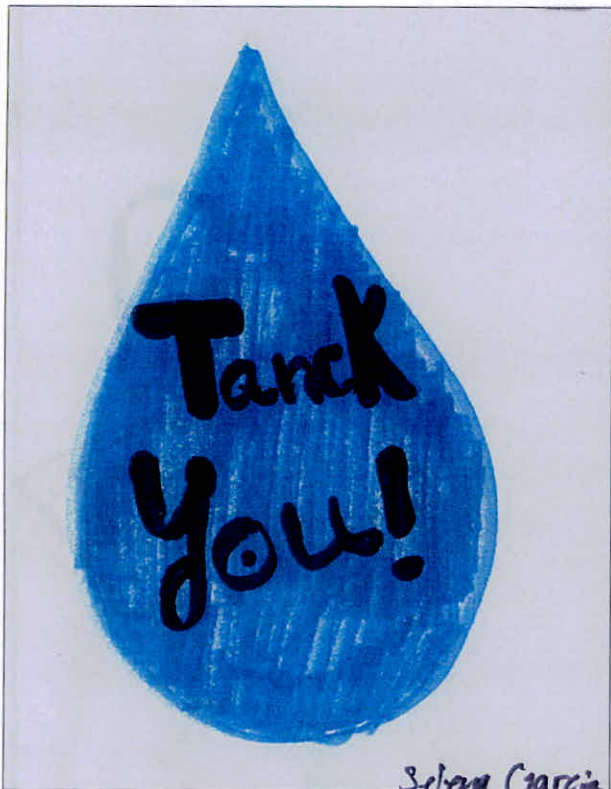
Thank you for giving us the kit. I learned that by changing a clean filter my water would be cleaner for all of us.




Selva Garcia

Student Letters

(continued)



Thank you so much for the kit I got alot of information from it, and learned not to use alot because before I got the kit I was using alot more water than I was supposed to



from  
 JORDAN,  
 Herolt

4-17-14

Dear Victoria County,

Thank you for giving us the kit for the water cycle. You spent so much money on all of the young kids that want a education, we all learned a lot from the kit. I'm so glad you spent money for us. We needed the kit. We saved money from the kit. We saved cold and hot water from the kit.

Sincerely  
 your future  
 educators,  
 Cooper




Student Letters

(continued)



Thank you, your kit helped me save money. My parents loved it they love ~~to~~ saving money. I just wanted to say thanks very very much

Thank you  
Miranda



Dear Victoria County,

Thank you for your service. It saved so much water. I learned that we use water so fast that the water cycle can't replenish it fast enough. If we use too much there will be no more for us to use in the next couple of years. Again thank you. I will definitely save money, water, and energy.

sincerely, Chloe



## Student Letters

(continued)

Dear; Victoria county,

Thank you so much for helping my family save money and water the water usage worked Really well. I Really hope it saves water and it works awesome. my parents and me are sooo thankful for what you did for us, thank you alot!! Hope we can help the Rest of our family to.

from; Kendall Hammeck

April 29, 2014

Dear Texas Water Foundation,  
Thank you all for the water conservation kit. My favorite piece was the Kitchen faucet, but the bathroom one was OK, and I really don't have much smooth ground for the rain gauge and the rest really does help.

Thanks again,  
Jazlyn

Daniel Salazar

Thank You for the water conservation kit. I really enjoyed the information and I had a fun time with it.

thank You for the water conservation kit. We can now save money and conserve water.



Sincerely  
- Erik Rivera

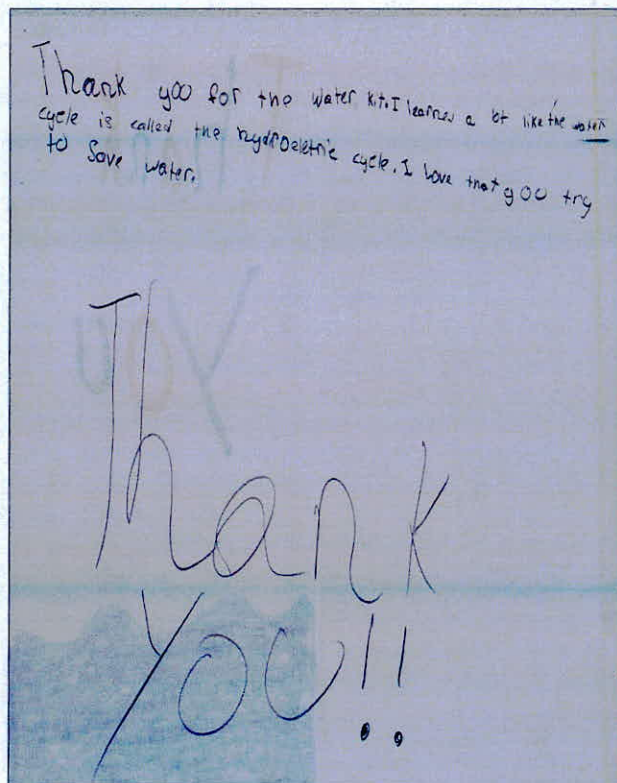
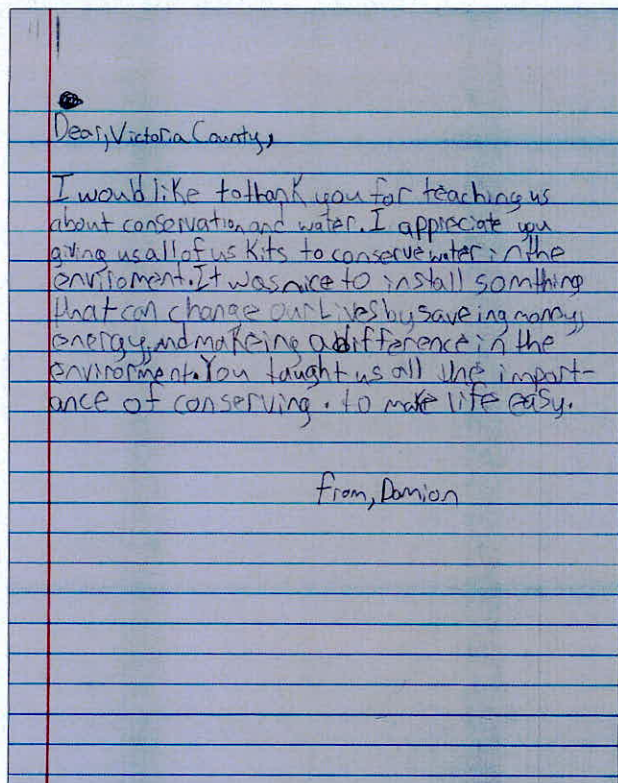
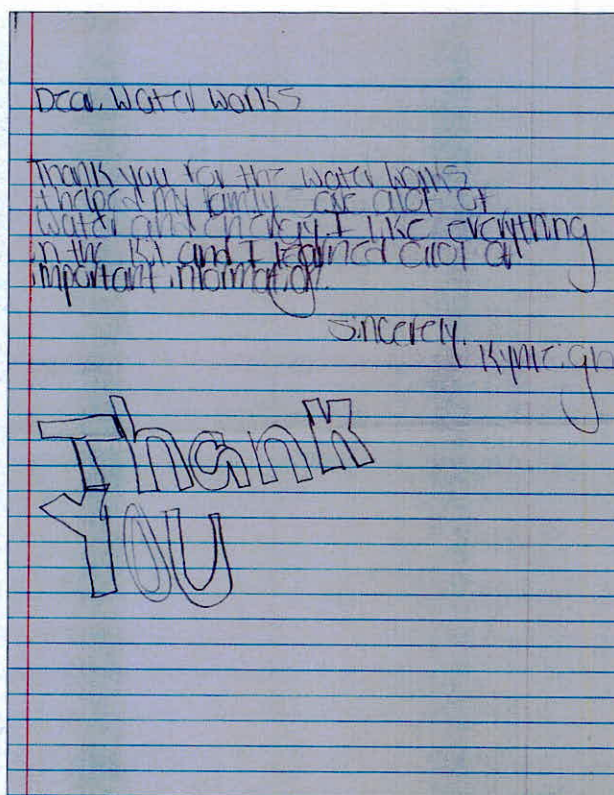
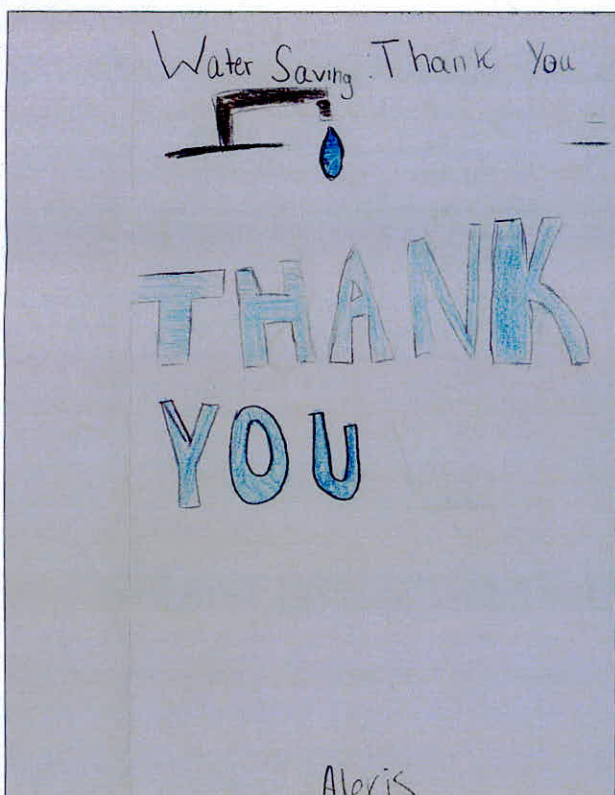
Thanks! The water kit saved my family money. The activities the book provided were fun. I also learned new stuff. This is going to help me on my science star test.

Thank You!



Student Letters

(continued)

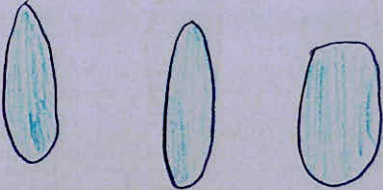


Student Letters

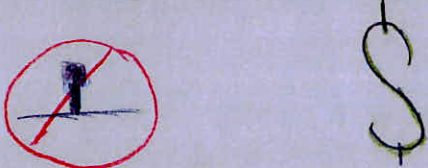
(continued)

Thank you for the kit because the booklet and it helped me with everything and sinkheads and all of the things and the student work book.

From Cheyenne R



Thank you for giving me the kit because it helped me with the Hydro cycle. The shower and sink heads don't leak thanks to the new heads. Most of the activities were great and fun. Saved lots of money.



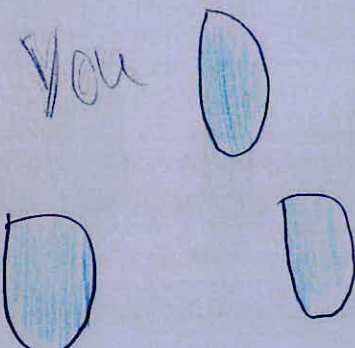
Thank you for supplying the kit for use. It saved my family a lot of water and money. I had fun installing it. I got a lot of information for my starfish.

Thank you for letting us use your kit it was very useful.

Layla Villalobos

Cheyenne R

THANK YOU



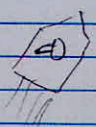
Thank you for the kit, I love the showerhead! It saved us lots of money. My mom and Dad liked it also. I liked the crossword puzzle in the workbook. I will use this information on STAAR.

From, Jonathan

Student Letters

(continued)

Thank you for The Shower head I liked it



works good

April 29, 2014

Dear Texas Water Foundation,

Thanks for the kit! My family loves it so much. Also it helps us save water a lot. My dad was so happy he brought it home because it saved so much water. We're so happy to receive it. Thanks for making the world a better place.

Your friend,  
Cristina

Dear Water Works,



Thank you for the new Shower head I had fun doing it. I learned a lot.

Sincerely,  
Maxenzik Alaniz

Thank you for the new Shower heads and it works really well

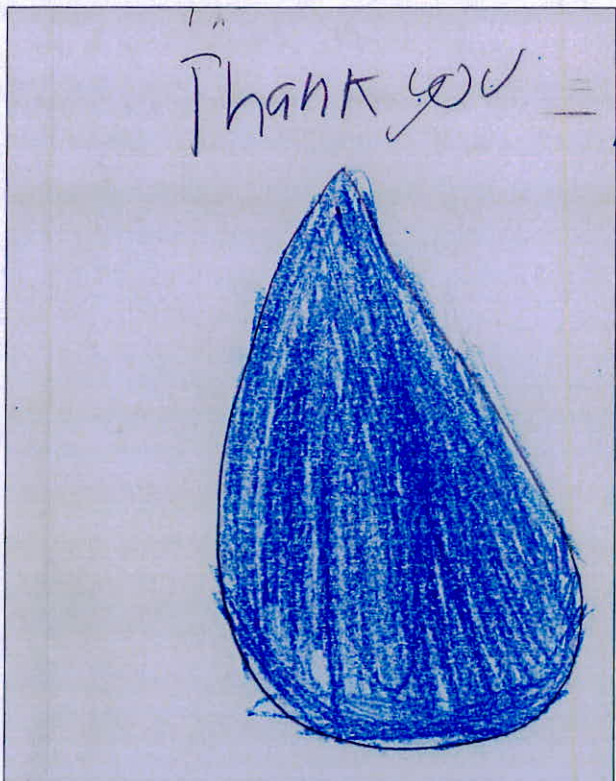
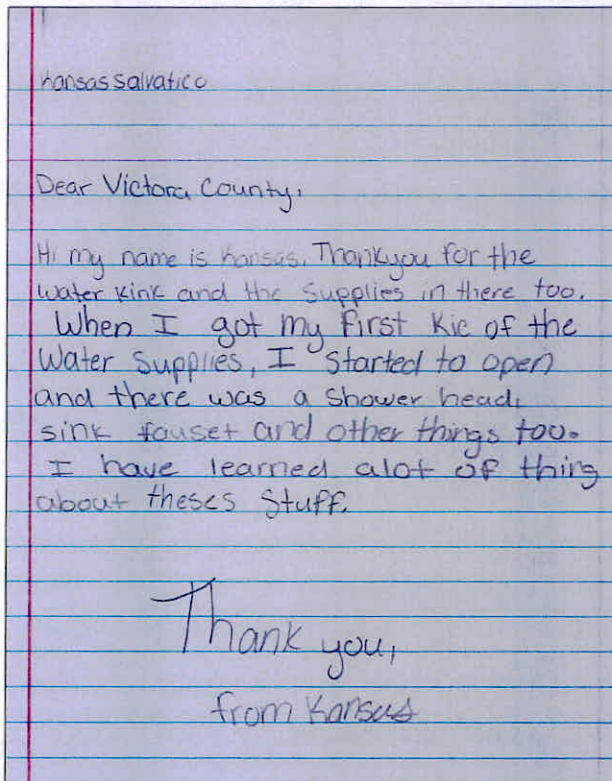
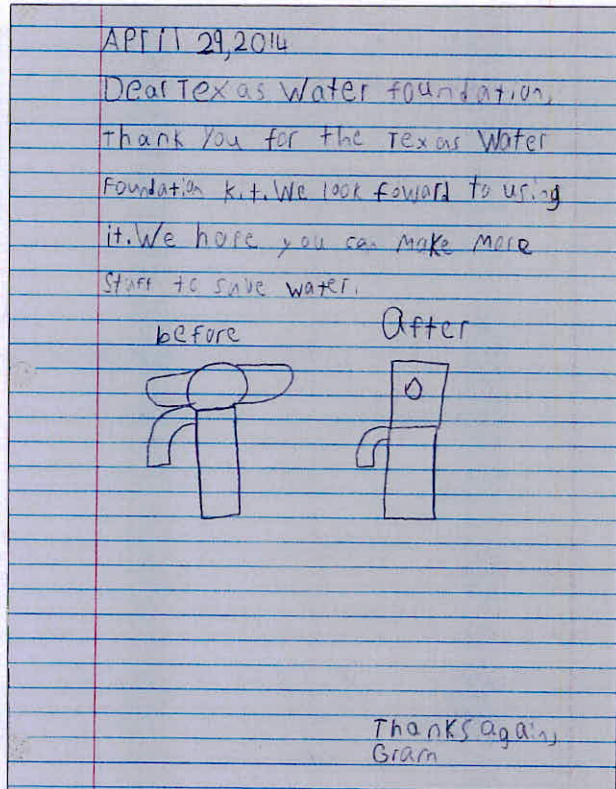
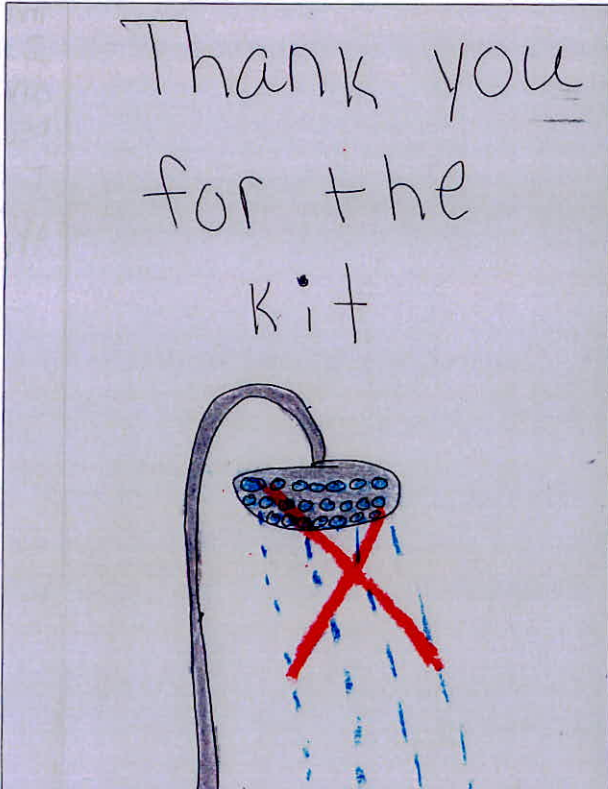
THANK you for the kit, It taught me all about water conservation, I will conserve more water now.

The work books were very entertaining. The presentation was cool. Thank you from Benner

Student Letters

(continued)



## Student Letters

(continued)

Dear Victoria County, April 17, 2014

Hi, my name is Tury Simmons I would like to Thank you for the kit for home. Even though I didn't use my kit, I bet it will be fun. It also took a lot of money.

April 29, 2014  
Dear Texas water Foundation,  
Thank you for the water conservation. I think it will help my family save a lot of money. I even feel like there is more water for less cost.  
Thanks again,  
Emma

Dear Water Works,  
Thank you for the kit I learned alot and really liked the new shower head.  
Had alot of fun  
-Rachel

Dear Texas water Foundation, 4/29/14

Thank you for the kit my family didn't use that was money any more. also I learned many things from the kit. I think I'll use these in the future to because it saves money and you don't use much water and it also help the equipment also it doesn't waste water.  
Sincerely,  
Brinna

Adrian Salinas Feb

Dear Texas water foundation,  
Thank you for the kit that you gave me. I used it for the sink, and I think my dad is saving more money than he was. So thank you for the water foundation kit.  
Thank again,  
Adrian Salinas  
Adrian Salinas

Thank you for the new shower head and the sink head. It worked go for my family saved lot of money  
to you  
from Adrian

## Student Letters

(continued)

Dear Victoria County,

Thank you for your effort of trying to get people to save money and energy and trying to save water and energy for our future usage. I learned information about different things about the environment. Thank you for the kit it was very thoughtful of y'all. Thank you again.

Sincerely,  
Dalton

Christian

Thank you very much for water works. I appreciate you for taking us by it I had a lot of fun doing it.

Dear Water Works,

I thought the kit was useful I loved you thank you so much for kit I love everything and had fun doing it with my family we had a great time.

From: Bernice

Dear Texas Water Foundation, I just wanted to tell you that the kit that I got I liked it and it helped by saving electricity and water bills.

From: Maren  
To: Texas Water Foundation

Zack

Dear, Texas water foundation

I would like to thank you for are student handbook that was sent for us to learn about water cycle and all the amounts of water on earth and how to conserve it. Not only that but the kits on water conserving supplies for our home appliances.

X Zachary Linnison

Thank you for the water works. I really enjoyed it.

Katelynn  
Saski

April 27, 2014

Dear Texas Water Foundation,

Thank you Water Foundation for sending us the Water Conservation Kit. With the kit you are helping us save money and conserving water. You guys will help us keep water for other generations. Thank you again for sending the kit to help us save.

Thanks again,  
Daniel



Student Letters

(continued)

Dear Victoria County, 4/17/14

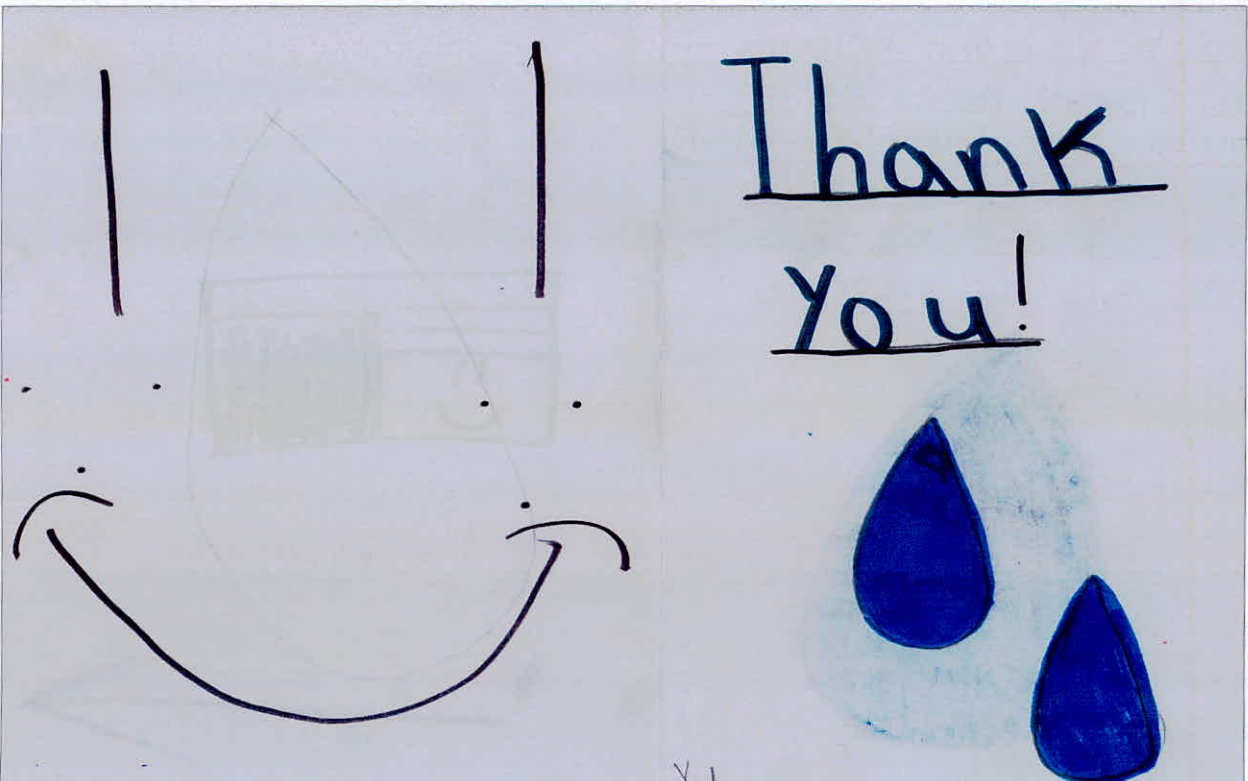
Hello, my name is Zachary. I just wanted to thank you for the waterwise kit and telling me some good ways to conserve water. And also we learned a lot of vocabulary and stuff we could use that might be on our STAAR Test. I haven't got to hook my waterwise kit up but I will. I have been trying to take shorter showers and not use water when I don't need it. I compared the water bill from last month and this month and we saved a lot more money. So that just got me thinking on how much more money we'll save when we install that kit. We will be able to do a lot more fun things and spend less money and get better things thanks to you. I will keep trying to find more ways to conserve water and a lot of other things. I'll also start recycling plastic, bottles and everything else that is recyclable. I also started picking up all trash I see to keep our environment clean thanks to you.

Sincerely, From Zachary Summa

Dear Victoria county, April, 17, 2014

Thank you for the water wise packet. The packet really helped my family with saving water. I have learned that there is only a little of water on this earth for our use. Our old shower head used a lot of water in a little amount of time, but now we have the new shower head it really helped us save water. It also helped us save money. So thank you again for the water wise packet.

Sincerely  
Kalli









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PROGRAMS

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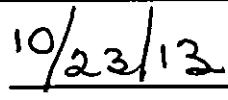



Victoria County Groundwater Conservation District  
 2805 N. Navarro St, Suite 210, Victoria, Texas 77901  
 (361) 579-6863 (361) 579-0041  
 Website: [www.vcgcd.org](http://www.vcgcd.org) Email: [admin@vcgcd.org](mailto:admin@vcgcd.org)

## Participation Acknowledgement Form

PROGRAM/EVENT INFORMATION			
Program/Event Title:	2013 South Texas Farm & Ranch Show		
Program/Event Date:	October 23 & 24, 2013	Program/Event Location:	Victoria Community Center, Victoria, Texas
Program Description:			
Description of VCGCD Participation:	Exhibit Booth and presentation with Educational Materials related to Groundwater Resources.		

DISCUSSION TOPICS			
Efficient Use of Groundwater	X	Preventing Waste of Groundwater	X
Conjunctive Use	X	Natural Resource Issues	X
Drought Conditions	X	Conservation	X
Recharge Enhancement	X	Rain Water Harvesting	X
Precipitation Enhancement		Brush Control	X
Preventing Subsidence		Desired Future Conditions	X

SIGNATURE	
 Signature of Program/Event Coordinator	 Date
 Printed Name and Title of Program/Event Coordinator	

# Victoria County Groundwater Conservation District



Directors:

Mark Meek  
President

Jerry Hroch  
Vice President

Barbara Dietzel  
Secretary

Thurman Clements  
Kenneth Eller

## NOTICE OF MEETING VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT BOARD OF DIRECTORS

Notice is given in accordance with Chapter 551-Government Code (V.T.C.A.) Texas Open Meetings Act that the Victoria County Groundwater Conservation District Board of Directors will conduct an educational booth at the South Texas Farm and Ranch Show, at the Community Center, 2905 East North St., Victoria, Texas.

Wednesday, October 23, 2013 – 10:00 A.M. to 7:00 P.M.  
Thursday, October 24, 2013 – 10:00 A.M. to 5:00 P.M.

### TO CONDUCT AN EDUCATIONAL BOOTH AT THE SOUTH TEXAS FARM AND RANCH SHOW

Please submit comments, questions, and requests for additional information to Tim Andruss of the Victoria County Groundwater Conservation District by mail at 2805 N. Navarro St., Suite 210, Victoria, Texas 77901, by email at [admin@vcgcd.org](mailto:admin@vcgcd.org), or by phone at (361) 579-6863.

Tim Andruss, General Manager

Date: 10/4/13

In Accordance with Title III of the Americans with Disabilities Act, we invite all attendees to advise us of any special accommodations due to disability. Please submit your request as far as possible in advance of programs you wish to attend.

**FILED**  
*Ronnie Orsca*  
2013 OCT -7 AM 8:05

*[Signature]*  
COUNTY CLERK  
VICTORIA COUNTY, TEXAS

October 23-24, 2013 Agenda  
2805 N. Navarro St. Suite 210, Victoria, TX 77901, Phone (361) 579-6863, Fax (361) 579-6864  
Page 1 of 1

Fiscal Year – 2013 - 2014 Annual Report  
Attachment 10

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT**

**FINANCIAL STATEMENTS**

**For the Year Ended September 30, 2014**





**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
FINANCIAL STATEMENTS  
For the Year Ended September 30, 2014**

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# Goldman, Hunt & Notz, L.L.P.

## Certified Public Accountants

DONALD G. GOLDMAN, CPA  
D. DALE HUNT, CPA  
JAMIE K. NOTZ, CPA, CVA\*  
\*CERTIFIED VALUATION ANALYST

KEITH H. COX, CPA, CISA  
SYLVIA H. GORIS, CPA  
SUE N. GUTHRIE, CPA  
STEPHANIE S. KOCH, CPA

MEMBERS OF:

AMERICAN INSTITUTE OF  
CERTIFIED PUBLIC ACCOUNTANTS

TEXAS SOCIETY OF  
CERTIFIED PUBLIC ACCOUNTANTS

### INDEPENDENT AUDITOR'S REPORT

January 16, 2015

To the Board of Directors  
Victoria County Groundwater Conservation District  
Victoria, Texas

We have audited the accompanying financial statements of the governmental activities and each major fund of the Victoria County Groundwater Conservation District, as of and for the year ended September 30, 2014, and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents.

#### Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

#### Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

## Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities and each major fund of the Victoria County Groundwater Conservation District, as of September 30, 2014, and the respective changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

## Other Matters

### *Required Supplementary Information*

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis and budgetary comparison information on pages 4 through 7 and 17 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

### *Other Information*

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Victoria County Groundwater Conservation District's basic financial statements. The Texas Supplementary Information is presented for purposes of additional analysis and is not a required part of the basic financial statements.

The Texas Supplementary Information is the responsibility of management and was derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Texas Supplementary Information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.



Goldman, Hunt & Notz, L.L.P.

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
September 30, 2014**

As management of the Victoria County Groundwater Conservation District (District), we offer readers of the District's financial statements this narrative overview and analysis of the financial activities of the District for the fiscal year ended September 30, 2014. This discussion and analysis is intended to be an easily readable analysis of the District's financial activities based on currently known facts, decisions or conditions. This analysis focuses on current year activities and should be read in conjunction with the financial statements that follow.

**Report Layout**

In addition to the Management's Discussion and Analysis (MD&A), the report consists of basic financial statements, notes to the financial statements, required supplementary information, and Texas Supplementary Information. The basic financial statements are highly condensed and present a government-wide view of the District's finances. These government-wide statements are designed to be more corporate-like in that all activities are consolidated into a total for the District. The notes to the financial statements provide additional information that is essential to a full understanding of the data provided in the government-wide basic financial statements.

**Basic Financial Statements**

- The Statement of Net Position and Balance Sheet - Governmental Funds is the first of two governmental fund and government-wide financial statements which focus on resources available for future operations. In simple terms, this statement presents a snapshot view of the assets the District owns, the liabilities it owes and the net difference. The net difference is further separated into amounts restricted for specific purposes and unrestricted amounts. The presentation is similar to a private-sector business.
- The second governmental fund and government-wide financial statement is called the Statement of Activities and Revenues, Expenditures, and Changes in Fund Balance/Net Position - Governmental Funds. This statement summarizes the District's revenues and expenditures for the year. Once again, the presentation is similar to a private-sector business.
- The notes to the financial statements provide additional disclosure required by governmental accounting standards and provide information to assist the reader in understanding the District's financial condition.

The discussion and analysis of the District's financial performance provides an overall review of its financial activities for the year ended September 30, 2014. The intent of this discussion and analysis is to look at the District's financial performance as a whole; readers should also review the basic financial statements to enhance their understanding of the District's financial performance.

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
September 30, 2014**

**Financial Highlights**

- The assets of the Victoria County Groundwater Conservation District exceeded its liabilities at the close of the fiscal year ended September 30, 2014 by \$1,797,848 (net position). Of this amount, \$1,786,457 in unrestricted net position is available to meet the District's ongoing obligations.
- At September 30, 2014, unassigned fund balance for the General Fund was \$369,698 or 93% of total General Fund expenditures.
- The total cost of all District activities was \$409,143 for the fiscal year.

**Government-wide Overall Financial Analysis**

**Victoria County Groundwater Conservation District  
Components of Net Position  
September 30, 2014  
With Comparative Totals for September 30, 2013  
(in thousands)**

	<b>Governmental Activities</b>		<b>Total Government</b>		<b>Amount Change</b>	<b>% Change</b>
	<u>2014</u>	<u>2013</u>	<u>2014</u>	<u>2013</u>		
Current and other assets	\$ 1,814	\$ 1,629	\$ 1,814	\$ 1,629	\$ 185	11%
Capital assets	29	41	29	41	(12)	-29%
<b>Total assets</b>	<u>1,843</u>	<u>1,670</u>	<u>1,843</u>	<u>1,670</u>	<u>173</u>	<u>10%</u>
Current and other liabilities	45	53	45	53	(8)	-15%
<b>Total liabilities</b>	<u>45</u>	<u>53</u>	<u>45</u>	<u>53</u>	<u>(8)</u>	<u>-15%</u>
Net position:						
Net investment in capital assets	29	41	29	41	(12)	-29%
Unrestricted	1,769	1,576	1,769	1,576	193	12%
<b>Total net position</b>	<u>\$ 1,798</u>	<u>\$ 1,617</u>	<u>\$ 1,798</u>	<u>\$ 1,617</u>	<u>\$ 181</u>	<u>11%</u>

The total net position increased by approximately \$181,000. The increase was principally invested in cash.

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
September 30, 2014**

**Government-wide Overall Financial Analysis (Concluded)**

**Victoria County Groundwater Conservation District  
Condensed Statement of Activities  
For the Year Ended September 30, 2014  
With Comparative Totals for September 30, 2013  
(in thousands)**

	<b>Governmental Activities</b>		<b>Total Government</b>		<b>Amount Change</b>	<b>% Change</b>
	<u>2014</u>	<u>2013</u>	<u>2014</u>	<u>2013</u>		
<b>Revenues</b>						
<b>General revenues</b>						
Taxes	\$ 578	\$ 553	\$ 578	\$ 553	\$ 25	5%
Interest	7	6	7	6	1	17%
Miscellaneous income	5	4	5	4	1	25%
<b>Total revenues</b>	<u>590</u>	<u>563</u>	<u>590</u>	<u>563</u>	<u>27</u>	<u>5%</u>
<b>Expenses</b>						
Personnel	185	144	185	144	41	28%
Professional fees	36	34	36	34	2	6%
Contracted services	128	144	128	144	(16)	-11%
Utilities	8	9	8	9	(1)	-11%
Administrative	41	46	41	46	(5)	-11%
Depreciation	11	8	11	8	3	38%
<b>Total expenses</b>	<u>409</u>	<u>385</u>	<u>409</u>	<u>385</u>	<u>24</u>	<u>6%</u>
Increase (decrease) in net position	181	178	181	178	3	2%
Net position - beginning	<u>1,617</u>	<u>1,439</u>	<u>1,617</u>	<u>1,439</u>	<u>178</u>	<u>12%</u>
Net position - ending	<u>\$ 1,798</u>	<u>\$ 1,617</u>	<u>\$ 1,798</u>	<u>\$ 1,617</u>	<u>\$ 181</u>	<u>11%</u>

The revenues exceeded expenses by approximately \$181,000 and are being used to build the net position of the District to maintain an adequate capital structure. Tax revenues increased \$25,000 from the prior year. Total expenses were up principally due to increased spending for personnel.

**Budgetary Highlights**

Actual revenues in the General Fund exceeded budgeted revenues by \$9,235. Actual General Fund expenditures were \$174,633 less than budgeted expenditures. The District did not revise its budget for the General Fund during the fiscal year.



**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
MANAGEMENT'S DISCUSSION AND ANALYSIS  
September 30, 2014**

**Capital Assets**

At September 30, 2014 the District had \$29,391 invested in net capital assets. Depreciation on assets was \$11,476 for the year.

**Victoria County Groundwater Conservation District  
Capital Assets  
(net of accumulated depreciation)  
September 30, 2014  
With Comparative Totals for September 30, 2013  
(in thousands)**

	<b>Governmental Activities</b>		<b>Total Government</b>		<b>Amount Change</b>	<b>% Change</b>
	<u>2014</u>	<u>2013</u>	<u>2014</u>	<u>2013</u>		
Vehicle and equipment	\$ 67	\$ 67	\$ 67	\$ 67	\$ -	0%
Subtotal	<u>67</u>	<u>67</u>	<u>67</u>	<u>67</u>	<u>-</u>	0%
Accumulated depreciation	<u>38</u>	<u>26</u>	<u>38</u>	<u>26</u>	<u>12</u>	46%
Capital assets, net	<u><u>\$ 29</u></u>	<u><u>\$ 41</u></u>	<u><u>\$ 29</u></u>	<u><u>\$ 41</u></u>	<u><u>\$ (12)</u></u>	-29%

Additional information on the District's capital assets can be found in the notes to the financial statements.

**Debt Outstanding**

At year-end, the District had no debt outstanding.

**Economic Factors and Next Year's Budgets and Rates**

The District's property tax rate for 2014/2015 is \$0.00878 per \$100 valuation. The net taxable value is \$6,851,114,789 for total tax revenue of \$601,528.

The District budgeted \$705,614 in revenues and \$841,550 in expenditures for 2014/2015.

**Financial Contact**

The District's financial statements are designed to present users (citizens, taxpayers, customers, investors, and creditors) with a general overview of the District's finances and to demonstrate the District's accountability. If you have questions about the report or need additional financial information, please contact the District Manager at 2805 N. Navarro, Suite 210, Victoria, Texas 77901.

**BASIC FINANCIAL STATEMENTS**

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT**  
**STATEMENT OF NET POSITION AND BALANCE SHEET - GOVERNMENTAL FUNDS**  
September 30, 2014

	<u>General Fund</u>	<u>Total</u>	<u>Adjustments</u>	<u>Statement of Net Position</u>
<b>Assets</b>				
Cash and investments	\$ 1,767,732	\$ 1,767,732	\$ -	\$ 1,767,732
Taxes receivable	31,742	31,742	-	31,742
Other receivables	10,471	10,471	-	10,471
Prepayments	3,593	3,593	-	3,593
Capital assets (net of accumulated depreciation)	-	-	29,391	29,391
<b>Total assets</b>	<u>\$ 1,813,538</u>	<u>\$ 1,813,538</u>	<u>\$ 29,391</u>	<u>\$ 1,842,929</u>
<b>Liabilities</b>				
Accounts payable	\$ 18,357	\$ 18,357	\$ -	\$ 18,357
Accrued liabilities	22,420	22,420	-	22,420
Payroll and other taxes payable	4,304	4,304	-	4,304
<b>Total liabilities</b>	<u>45,081</u>	<u>45,081</u>	<u>-</u>	<u>45,081</u>
<b>Deferred inflows of resources</b>				
Unavailable taxes	31,742	31,742	(31,742)	-
<b>Total deferred inflows of resources</b>	<u>31,742</u>	<u>31,742</u>	<u>(31,742)</u>	<u>-</u>
<b>Fund balance/net position</b>				
Nonspendable	3,593	3,593	(3,593)	-
Committed:				
Legal contingencies	681,712	681,712	(681,712)	-
Groundwater research	681,712	681,712	(681,712)	-
Unassigned	369,698	369,698	(369,698)	-
<b>Total fund balance</b>	<u>1,736,715</u>	<u>1,736,715</u>	<u>(1,736,715)</u>	<u>-</u>
<b>Total liabilities, deferred inflows of resources, and fund balance</b>	<u>\$ 1,813,538</u>	<u>\$ 1,813,538</u>		
Net investment in capital assets			29,391	29,391
Unrestricted			1,768,457	1,768,457
<b>Total net position</b>			<u>\$ 1,797,848</u>	<u>\$ 1,797,848</u>

The notes to the financial statements are an integral part of this statement.

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
STATEMENT OF ACTIVITIES AND REVENUES, EXPENDITURES, AND  
CHANGES IN FUND BALANCE/NET POSITION - GOVERNMENTAL FUNDS  
For the Year Ended September 30, 2014**

	<u>General Fund</u>	<u>Total</u>	<u>Adjustments</u>	<u>Statement of Activities</u>
<b>Revenues</b>				
Property taxes	\$ 573,220	\$ 573,220	\$ 4,647	\$ 577,867
Interest income	6,833	6,833		6,833
Miscellaneous income	5,285	5,285	-	5,285
Total revenues	<u>585,338</u>	<u>585,338</u>	<u>4,647</u>	<u>589,985</u>
<b>Expenditures/expenses</b>				
Service operations:				
Personnel	184,547	184,547		184,547
Professional fees	35,536	35,536		35,536
Contracted services	128,357	128,357		128,357
Utilities	8,427	8,427		8,427
Administrative	40,800	40,800		40,800
Depreciation	-	-	11,476	11,476
Total expenditures/expenses	<u>397,667</u>	<u>397,667</u>	<u>11,476</u>	<u>409,143</u>
Excess (deficiency) of revenues over expenditures/expenses	187,671	187,671	(6,829)	180,842
<b>Fund balance/net position:</b>				
Beginning of the year	<u>1,549,044</u>	<u>1,549,044</u>	<u>67,962</u>	<u>1,617,006</u>
End of the year	<u>\$ 1,736,715</u>	<u>\$ 1,736,715</u>	<u>\$ 61,133</u>	<u>\$ 1,797,848</u>

The notes to the financial statements are an integral part of this statement.

**NOTES TO THE FINANCIAL STATEMENTS**

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**For the Year Ended September 30, 2014**

**NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND BASIS OF ACCOUNTING**

**Basis of Accounting/Measurement Focus**

The accounts of the District are organized on the basis of funds, each of which is considered a separate accounting entity. The operations of each fund are accounted for with a separate set of self-balancing accounts that comprise its assets, deferred outflows of resources, liabilities, deferred inflows of resources, fund equity, revenues, and expenditures or expenses, as appropriate. Governmental resources are allocated to and accounted for in individual funds based upon the purposes for which they are to be spent and the means by which spending activities are controlled.

The accounting and reporting policies of the District relating to the funds included in the accompanying financial statements conform to generally accepted accounting principles applicable to state and local governments. Generally accepted accounting principles for local governments include those principles prescribed by the Governmental Accounting Standards Board (GASB), the American Institute of Certified Public Accountants in the publication entitled *Audits of State and Local Governmental Units*, and by the Financial Accounting Standards Board (when applicable). The more significant accounting policies of the District are described below.

**A. Governmental Fund Financial Statements and Government-Wide Financial Statements**

The governmental fund financial statements and government-wide financial statements are combined in the Statement of Net Position and Balance Sheet - Governmental Funds and the Statement of Activities and Revenues, Expenditures, and Changes in Fund Balance/Net Position - Governmental Funds. These statements present summaries of governmental activities for the District. Fiduciary activities of the District are not included in these statements.

Government-wide financial statements are presented on an "economic resources" measurement focus and the accrual basis of accounting. Accordingly, all of the District's assets, deferred outflows of resources, liabilities, deferred inflows of resources, including capital assets as well as infrastructure assets and long-term liabilities, are included in the accompanying Statement of Net Position and Balance Sheet - Governmental Funds. The Statement of Activities and Revenues, Expenditures, and Changes in Fund Balance/Net Position - Governmental Funds presents changes in fund balance/net position. Under the accrual basis of accounting, revenues are recognized in the period in which they are earned while expenses are recognized in the period in which the liability is incurred regardless of the timing of related cash flows. The types of transactions reported as program revenues for the District are reported in two categories: 1) property taxes and 2) investment earnings.

Governmental fund financial statements are accounted for on a spending or "current financial resources" measurement focus and the modified accrual basis of accounting. Accordingly, only current assets, current liabilities, and current deferred inflows of resources are included on the Statement of Net Position and Balance Sheet - Governmental Funds. The Statement of Activities and Revenues, Expenditures, and Changes in Fund Balance/Net Position - Governmental Funds present increases (revenues and other financing sources) and decreases (expenditures and other financing uses) in net current assets. Under the modified accrual basis of accounting, revenues are recognized in the accounting period in which they become both measurable and available to finance expenditures of the current period. Accordingly, revenues are recorded when received in cash, except that revenues subject to accrual (generally 60 days after year-end) are recognized when due. The primary revenue sources, which have been treated as susceptible to accrual by the District are property tax and interest income. Expenditures are recorded in the accounting period in which the related fund liability is incurred.

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**For the Year Ended September 30, 2014**

**NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND BASIS OF ACCOUNTING**  
**(Continued)**

The following is the District's Governmental Fund type:

General Fund

The General Fund is the general operating fund of the District. All financial resources, except those required to be accounted for in another fund, are accounted for in the General Fund.

**B. Fund Balance Classification**

The governmental fund financial statements present fund balances based on classifications that comprise a hierarchy that is based primarily on the extent to which the District is bound to honor constraints on the specific purposes for which amounts in the respective governmental funds can be spent. The classifications used in the governmental fund financial statements are as follows:

Nonspendable

Amounts that cannot be spent either because they are in nonspendable form or because they are legally or contractually required to be maintained intact.

Restricted

Amounts constrained to specific purposes by their providers, through constitutional provisions, or by enabling legislation.

Committed

Amounts constrained to specific purposes by the District itself, using its highest level of decision-making authority, the Board of Directors. To be reported as committed, amounts cannot be used for any other purpose unless the District takes the same highest level action to remove or change the constraint.

Assigned

Amounts the District intends to use for a specific purpose, but does not meet the criteria to be classified as restricted or committed. Intent can be expressed by the Board of Directors or by an official to which the District delegates the authority.

Unassigned

All other spendable amounts.

**C. Restricted Resources**

The District applies restricted resources when an expense is incurred for purposes for which both restricted and unrestricted net assets are available.

**D. Cash and Cash Equivalents**

The District's cash and cash equivalents are considered to be cash on hand, demand deposits, and certificates of deposits with maturity dates of 12 months or less.

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**For the Year Ended September 30, 2014**

**NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND BASIS OF ACCOUNTING**  
**(Continued)**

**E. Budget**

The Board of Directors prepares and votes on the adopted budget. Budgets for the General Fund are adopted on a basis consistent with generally accepted accounting principles (GAAP) in the United States of America. Any revisions to the budget are approved by the Board of Directors. The original budget and final amended budget (when applicable) for the General Fund are used in this report.

**F. Inventory**

There is no inventory at September 30, 2014.

**G. Vacation and Sick Leave**

Vacation accrues at a rate of .83 days per month or ten days per year for all employees. Sick leave accrues at a rate of .42 days per month or five days per year. At year end, accrued vacation was \$11,463 and is included with accrued liabilities. Employees are not entitled to their accrued sick leave if they terminate their employment with the District. Therefore, an accrued liability for sick leave is not recorded.

**H. Property Tax**

The Appraisal District annually prepares appraisal records listing all property within the District and the appraised value of each parcel or item as of January 1. Additionally on January 1, a tax lien attaches to property to secure the payment of all taxes, penalty, and interest ultimately imposed for the year on the property. By September 1 of each year, or as soon thereafter as practicable, the rate of taxation is set by the Board of Directors of the District based upon the aggregate appraisal value.

Taxes are levied on October 1 and are due and payable on or before January 31 of the following year. All unpaid taxes become delinquent February 1 and attach as an enforceable lien on the property as of July 1 of the following year. The Victoria County Tax Assessor/Collector collects and remits the property taxes to the District on a monthly basis. No allowance for uncollectable taxes has been provided as such amounts are not expected to be material.

The tax rate for 2013/2014 was \$0.00878 per \$100 valuation. The taxable value was \$6,489,502,086. All tax monies are used for maintenance and operations.

**I. Deferred Inflows of Resources**

The District reports deferred inflows of resources on its General Fund balance sheet. Deferred inflows of resources arise when potential revenue does not meet both the "measurable" and "available" criteria for recognition in the current period. Deferred inflows of resources also arise when the District receives resources before it has legal claim to them. In subsequent periods, when both revenue recognition criteria are met, or when the District has a legal claim to the resources, the liability for deferred inflows of resources is removed from the balance sheet and revenue is recognized.



**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
NOTES TO THE FINANCIAL STATEMENTS  
For the Year Ended September 30, 2014**

**NOTE 1: SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND BASIS OF ACCOUNTING  
(Concluded)**

**J. Capital Assets**

Capital assets purchased or acquired are carried at historical cost or estimated historical cost. Contributed assets are recorded at fair market value as of the date donated. Additions, improvements and other capital outlays that significantly extend the useful life of an asset are capitalized. Other costs incurred for repairs and maintenance are expensed as incurred. Depreciation on capital assets is calculated on the straight-line basis over the following estimated useful lives:

Vehicle and equipment	5 – 7 years
-----------------------	-------------

**K. Related Party Transactions**

There are no material related party transactions.

**L. Contracts**

Interlocal Cooperation Agreement

The District has entered into an Interlocal Cooperation Agreement with Texana Groundwater Conservation District (TGCD) to provide office and field equipment incidental to the operation of the TGCD. The TGCD shall compensate the District \$300 per month for the duration of the agreement. This contract is renewed annually.

The District, along with twelve other groundwater districts which make up Groundwater Management Area 15 (GMA 15), have entered into an interlocal agreement to divide the cost of groundwater studies on behalf of GMA 15. The District is billed for services performed for GMA 15 and a receivable is established to account for monies owed by the other districts within the agreement. At September 30, 2014, the receivable for GMA 15 was \$10,471.

**NOTE 2: THE FINANCIAL REPORTING ENTITY**

**Creation of District**

The Victoria County Groundwater Conservation District operates with a Board of Directors form of government. The District was created on June 17, 2005 under and subject to the authority, conditions, and restrictions of Section 59, Article XVI, Texas Constitution. It has the same boundaries as Victoria County, which covers an area of 889 square miles and is in the West Gulf Coast Plain of South Texas. The District's mission is to develop, promote, and implement water conservation, augmentation, and management strategies in order to protect water resources for the benefit of the citizens, economy, and environment of Victoria County.

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT**  
**NOTES TO THE FINANCIAL STATEMENTS**  
For the Year Ended September 30, 2014

**NOTE 3: CASH DEPOSITS WITH FINANCIAL INSTITUTIONS**

State statutes require that all deposits in financial institutions be fully collateralized by U.S. Government obligations or obligations of Texas and its agencies that have a market value of not less than the principal amount of the deposits. The District's deposits were fully collateralized at September 30, 2014. At year-end, the carrying amount of the District's deposits was \$1,767,732 and the respective bank balance totaled \$1,777,746. Of the total bank balance, \$250,000 was covered by Federal Depository Insurance. The remaining \$1,527,746 was covered by additional securities pledged to the District at September 30, 2014. The fair market value of the pledged securities at year end was \$1,867,085.

Texas Statutes authorize the Victoria County Groundwater Conservation District to invest in:

1. Obligations of the U.S. Treasury or its agencies and instrumentalities;
2. Direct obligations of the State of Texas of its agencies;
3. Other obligations, the principal of and interest on which are unconditionally guaranteed or insured by the State of Texas or the United States;
4. Obligations of states, agencies, counties, or cities rated A or better by a national investment rating firm;
5. Certificates of deposit that are insured by the Federal Deposit Insurance Corporation or secured by obligations having a market value of at least the principal amount of the certificates; and
6. Fully collateralized direct repurchase agreements.

**NOTE 4: CHANGES IN FIXED ASSETS**

	Primary Government			Ending Balance
	Beginning Balance	Additions	Retirements	
Governmental activities:				
Capital assets not being depreciated				
Land	\$ -	\$ -	\$ -	\$ -
Total capital assets not being depreciated	-	-	-	-
Other capital assets				
Vehicle and equipment	66,820	-	-	66,820
Total other capital assets at historical cost	66,820	-	-	66,820
Total capital assets	66,820	-	-	66,820
Less accumulated depreciation for:				
Vehicle and equipment	25,953	11,476	-	37,429
Total accumulated depreciation	25,953	11,476	-	37,429
Governmental activities capital assets, net	<u>\$ 40,867</u>	<u>\$ (11,476)</u>	<u>\$ -</u>	<u>\$ 29,391</u>

Depreciation expense was charged to primary government in the amount of \$11,476.

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
NOTES TO THE FINANCIAL STATEMENTS  
For the Year Ended September 30, 2014**

**NOTE 5: OPERATING LEASE**

The District leases office space from Victoria County, Texas for \$1,080 per month plus a potential increase from year to year for lessor's increased amount of maintenance, repair, cleanup, and utilities provided, however, such increase shall not be more than five percent in any lease year. The lease expires on March 31, 2016.

The amounts due in subsequent years (without the increased cost provision) is as follows:

<u>Year Ended September 30,</u>	<u>Amount Due</u>
2015	\$ 12,960
2016	6,480
	<u>\$ 19,440</u>

**NOTE 6: RISK MANAGEMENT**

The District is exposed to various risks of loss related to torts, theft of, damage to and destruction of assets, errors and omissions, injuries to employees and natural disasters. During the year ended September 30, 2014, the District purchased commercial insurance to cover these risks.

**NOTE 7: ADJUSTMENTS**

The adjustments presented on the Statement of Net Position and Balance Sheet - Governmental Funds, and to the Statement of Activities and the Statement of Revenues, Expenditures, and Changes in Fund Balance/Net Position – Governmental Funds, are as follows:

Capital assets used in the governmental activities are reported as expenditures in governmental funds when purchased or constructed. Therefore, they are not reported as capital assets in the funds.

Property taxes receivable will be collected this year, but are not available soon enough to pay for current period expenditures and therefore are deferred in the fund financial statements.

Depreciation expense on capital assets reported in the government-wide statement of activities does not require the use of current financial resources. Therefore, depreciation expense is not reported as an expenditure in the governmental funds.

**NOTE 8: RETIREMENT PLAN**

The District provides retirement benefits for their respective full-time employees through nontraditional defined benefit plans in the state-wide Texas County and District Retirement System (TCDRS). The Board of Trustees of TCDRS is responsible for the administration of the statewide agent multiple-employer public employee retirement system consisting of 641 nontraditional defined benefit pension plans. TCDRS in the aggregate issues a comprehensive annual financial report (CAFR) on a calendar year basis. The CAFR is available upon written request from the TCDRS Board of Trustees at P.O. Box 2034, Austin, Texas, 78768-2034.

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**For the Year Ended September 30, 2014**

**NOTE 8: RETIREMENT PLAN (Concluded)**

The plan provisions are adopted by the Board of Directors, within the options available in the state statutes governing TCDRS (TCDRS Act). Employees can retire regardless of age with 30 years of service. The "Rule of 80" will determine retirement eligibility. Members are vested after 10 years but must leave their accumulated contributions in the plans to receive any employer-financed benefit. Members who withdraw their personal contributions in a lump-sum are not entitled to any amounts contributed by their employer.

Benefit amounts are determined by the sum of the employee's contributions to the plan, with interest, and employer-financed monetary credits. The level of these monetary credits is adopted by the Board of Directors within the constraints imposed by the TCDRS Act so that the resulting benefits can be expected to be adequately financed by the employer's commitment to contribute. At retirement the benefit is calculated by converting the sum of the employee's accumulated contribution and the employer-financed monetary credits to a monthly annuity using annuity purchase rates prescribed by the TCDRS Act.

**Funding Policy**

The District elected the annually determined contribution rate (Variable-Rate) plan provisions of the TCDRS Act. The plans are funded by monthly contributions from both employee members and the employer based on the covered payroll of employee members. Under the TCDRS Act, the contribution rate of the employer is actuarially determined annually. The contribution rate was 5.63% for 2014.

The contribution rate payable by the employee members for calendar year 2014 is the rate of 5% as adopted by the Board of Directors. The employee contribution rate and the employer contribution rate may be changed by the Board of Directors within the options available in the TCDRS Act.

**Annual Pension Cost**

The required contribution was determined as part of the December 31, 2013 actuarial valuation using the entry age actuarial cost method. The actuarial assumptions at December 31, 2013 include (a) 8.0 percent investment return (net of administrative expenses), and (b) projected salary increases of 4.9 percent. Both (a) and (b) included an inflation component of 3.0 percent. The actuarial value of assets was determined using techniques that spread the effects of short-term volatility in the market value of investments over a five-year period. The unfunded actuarial accrued liability is being amortized as a level percentage of projected payroll on a closed basis. The remaining amortization period at December 31, 2013 was 20 years.

**Funded Status and Funding Progress**

As of December 31, 2013, the most recent actuarial valuation date, the plan was 94.48% funded. The actuarial accrued liability for benefits was \$58,594, and the actuarial value of assets was \$55,358, resulting in an unfunded actuarial accrued liability (UAAL) of \$3,236. The covered payroll was \$128,047 and the ratio of the UAAL to the covered payroll was 2.53%.

The schedule of funding progress, presented as Required Supplementary Information following the notes to the financial statements, presents multi-year trend information about whether the actuarial value of plan assets is increasing or decreasing over time relative to the actuarial accrued liability for benefits.

**REQUIRED SUPPLEMENTARY INFORMATION**

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
REQUIRED SUPPLEMENTARY INFORMATION  
BUDGETARY COMPARISON SCHEDULE – GENERAL FUND  
For the Year Ended September 30, 2014**

	<u>Original and Final Budget</u>	<u>Actual</u>	<u>Variance Positive (Negative)</u>
<b>Revenues</b>			
Property taxes	\$ 567,503	\$ 573,220	\$ 5,717
Interest income	5,000	6,833	1,833
Miscellaneous income	3,600	5,285	1,685
Total revenues	<u>576,103</u>	<u>585,338</u>	<u>9,235</u>
<b>Expenditures/expenses</b>			
Service operations:			
Personnel	181,800	184,547	(2,747)
Professional fees	100,000	35,536	64,464
Contracted services	153,500	128,357	25,143
Utilities	15,000	8,427	6,573
Repairs and maintenance	1,000	-	1,000
Administrative	109,000	40,800	68,200
Capital outlay	12,000	-	12,000
Total expenditures/expenses	<u>572,300</u>	<u>397,667</u>	<u>174,633</u>
Excess (deficiency) of revenues over expenditures/expenses	<u>\$ 3,803</u>	<u>\$ 187,671</u>	<u>\$ 183,868</u>

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
 REQUIRED SUPPLEMENTARY INFORMATION  
 SCHEDULE OF FUNDING PROGRESS (UNAUDITED)  
 For the Year Ended September 30, 2014**

**Texas County and District Retirement System (TCDRS)  
 Schedule of Funding Progress (unaudited)**

Actuarial Valuation Date	Actuarial Value of Assets	Actuarial Accrued Liability (AAL)	Funded Ratio	Unfunded or (Overfunded) AAL	Covered Payroll	UAAL as a Percentage of Covered Payroll
12/31/2011	\$25,782	\$24,230	106.41%	(\$1,552)	\$ 95,236	(1.63%)
12/31/2012	\$38,306	\$41,793	91.66%	\$3,487	\$ 96,798	3.60%
12/31/2013	\$55,358	\$58,594	94.48%	\$3,236	\$128,047	2.53%

VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
NOTE TO REQUIRED SUPPLEMENTARY INFORMATION  
September 30, 2014

NOTE 1: **BUDGET**

The budget for the Governmental Fund adopted during the year by the District was prepared using the modified accrual basis of accounting in accordance with generally accepted accounting principles. The General Fund has a legally adopted budget.



**TEXAS SUPPLEMENTARY INFORMATION**

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
TEXAS SUPPLEMENTARY INFORMATION  
For the Year Ended September 30, 2014**

**TABLE OF CONTENTS**

- TSI-1. Services and Rates
- TSI-2. General Fund Expenditures
- TSI-3. Temporary Investments - N/A
- TSI-4. Taxes Levied and Receivable
- TSI-5. Long-Term Debt Service Requirements by Years - N/A
- TSI-6. Changes in Long-Term Bonded Debt - N/A
- TSI-7. Comparative Schedule of Revenues and Expenditures - General Fund - Five Years
- TSI-8. Board Members, Consultants, and Key Administrative Personnel

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
TSI-1. SERVICES AND RATES  
For the Year Ended September 30, 2014**

**1. Services Provided by the District During the Fiscal Year:**

- |  |   |                                     |
|--|---|-------------------------------------|
| <input type="checkbox"/> Retail Water  | <input type="checkbox"/> Wholesale Water      | <input type="checkbox"/> Drainage   |
| <input type="checkbox"/> Retail Wastewater   | <input type="checkbox"/> Wholesale Wastewater | <input type="checkbox"/> Irrigation |
| <input type="checkbox"/> Parks/Recreation  | <input type="checkbox"/> Fire Protection      | <input type="checkbox"/> Security   |
| <input type="checkbox"/> Solid Waste/Garbage   | <input type="checkbox"/> Flood Control        | <input type="checkbox"/> Roads      |
| <input type="checkbox"/> Participates in joint venture, regional system, and/or wastewater service (other than emergency interconnect) |   |                                     |
| <input checked="" type="checkbox"/> Other (specify): <u>Groundwater District</u>   |   |                                     |

**2. Retail Service Providers: N/A**

**a. Retail Rates for a 5/8" meter (or equivalent):**

<u>Minimum Charge</u>	<u>Minimum Usage</u>	<u>Flat Rate Y/N</u>	<u>Rate per 500 Gallons Over Minimum Use</u>	<u>Usage Levels</u>
-----------------------	----------------------	----------------------	--	---------------------

WATER:

WASTEWATER:

SURCHARGE:

District employs winter averaging for wastewater usage?      Yes       No

Total charges per 10,000 gallons usage:      Water:      Wastewater:

**b. Water and Wastewater Retail Connections:**

<u>Meter Size</u>	<u>Total Connections</u>	<u>Active Connections</u>	<u>ESFC Factor</u>	<u>Active ESFCs</u>
Unmetered	_____	_____	x 1.0	_____
≤ 3/4"	_____	_____	x 1.0	_____
1"	_____	_____	x 2.5	_____
1 1/2"	_____	_____	x 5.0	_____
2"	_____	_____	x 8.0	_____
3"	_____	_____	x 15.0	_____
4"	_____	_____	x 25.0	_____
6"	_____	_____	x 50.0	_____
8"	_____	_____	x 80.0	_____
10"	_____	_____	x 115.0	_____
Total Water	_____	_____		_____
Total Wastewater	_____	_____	x 1.0	_____

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
TSI-1. SERVICES AND RATES (Continued)  
For the Year Ended September 30, 2014**

**3. Total Water Consumption During the Fiscal Year (rounded to the nearest thousand):** N/A

Gallons pumped into system: \_\_\_\_\_  
Gallons billed to customers: \_\_\_\_\_

Water Accountability Ratio:  
(Gallons billed/Gallons pumped)

**4. Standby Fees (authorized only under TWC Section 49.231):** N/A

Does the District have Debt Service standby fees? Yes  No

If yes, Date of the most recent Commission Order: \_\_\_\_\_

Does the District have Operation and Maintenance standby fees? Yes  No

If yes, Date of the most recent Commission Order: \_\_\_\_\_

**5. Location of District**

County(ies) in which the District is located: Victoria

Is the District located entirely within one county? Yes  No

Is the District located within a city? Entirely  Partly  Not at all

City(ies) in which the District is located: Victoria

Is the District located within a city's extra territorial jurisdiction (ETJ)?

Entirely  Partly  Not at all

ETJ's in which the District is located: \_\_\_\_\_

Are Board members appointed by an office outside the District? Yes  No

If Yes, by whom? \_\_\_\_\_

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
TSI-2. GENERAL FUND EXPENDITURES  
For the Year Ended September 30, 2014**

<b>Personnel (including benefits) *</b>	<b>\$ 184,547</b>
<b>Professional fees</b>	
Legal	28,036
Auditor	7,500
<b>Contracted services:</b>	
Tax assessor and appraisal services	31,369
Research and consultation	96,988
<b>Utilities</b>	8,427
<b>Administrative:</b>	
Dues	1,834
Insurance	1,653
Office supplies and postage	6,156
Other administrative	9,409
Public and legal notices	3,603
Rent	12,960
Travel and meetings	5,185
	<u>5,185</u>
 <b>Total expenditures</b>	 <b><u><u>\$ 397,667</u></u></b>

\* Number of persons employed by the District: 3 Full-Time

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
TSI-4. TAXES LEVIED AND RECEIVABLE  
For the Year Ended September 30, 2014**

	Maintenance Taxes
Taxes Receivable, Beginning of Year	\$ 27,095
2013 Original Tax Levy	570,270
Adjustments	2,227
Total to be accounted for	599,592
Tax collections and adjustments:	
Current year	562,254
Prior years	6,087
Adjustments	(491)
Total collections and adjustments	567,850
Taxes Receivable, End of Year	\$ 31,742
Taxes Receivable, by Years	
2013	\$ 12,483
2012 and before	19,259
Taxes Receivable, End of Year	\$ 31,742

	2013/2014	2012/2013	2011/2012	2010/2011
Property Valuations:				
Land	\$ 1,855,404,482	\$ 1,791,419,038	\$ 1,748,744,407	\$ 1,745,061,420
Improvements	4,495,426,670	4,049,215,805	3,814,129,928	3,760,301,738
Personal property	1,591,583,350	1,371,837,960	1,085,661,700	973,011,700
Minerals	135,934,520	120,169,040	97,841,460	140,697,690
Total Market Value	8,078,349,022	7,332,641,843	6,746,377,495	6,619,072,548
Exemptions and adjustments	(1,588,846,936)	(1,387,325,616)	(1,341,203,143)	(1,352,927,136)
Total Market Value	\$ 6,489,502,086	\$ 5,945,316,227	\$ 5,405,174,352	\$ 5,266,145,412
Tax Rates per \$100 Valuation:				
Maintenance tax rates	0.00878	0.00915	0.00915	0.00946
Total Tax Rates per \$100 Valuation	0.00878	0.00915	0.00915	0.00946
Original Tax Levy	\$ 570,270	\$ 546,137	\$ 494,979	\$ 198,195
Percent of Taxes Collected to Taxes Levied	98.59 %	97.95 %	98.53 %	98.33 %

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
TSI-7. COMPARATIVE SCHEDULE OF REVENUES AND EXPENDITURES -  
GENERAL FUND – FIVE YEARS  
For the Year Ended September 30, 2014**

	Amounts					Percent of Fund Total Revenues				
	2014	2013	2012	2011	2010	2014	2013	2012	2011	2010
<b>Revenues:</b>										
Property taxes	\$ 573,220	\$ 505,533	\$ 505,298	\$ 501,419	\$ 505,879	97.93 %	98.21 %	98.58 %	98.76 %	98.70 %
Interest	6,833	5,307	5,922	6,227	3,890	1.17	1.07	1.03	1.16	1.23
Miscellaneous income	5,285	1,974	431	350	2,168	0.90	0.72	0.39	0.08	0.07
<b>Total revenues</b>	<b>585,338</b>	<b>512,814</b>	<b>511,651</b>	<b>507,996</b>	<b>511,937</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>
<b>Expenditures:</b>										
Personnel	184,547	112,531	107,492	98,908	95,280	31.53	25.85	21.94	21.01	19.47
Professional fees	35,536	26,865	28,870	19,888	39,112	6.07	6.09	5.24	5.64	3.91
Contracted services	128,357	114,457	52,131	85,946	57,129	21.93	25.81	22.32	10.19	16.92
Utilities	8,427	3,445	4,035	2,017	1,650	1.44	1.58	0.67	0.79	0.40
Repairs and maintenance	-	197	135	193	-	0.00	0.04	0.04	0.03	0.04
Administrative	40,800	48,157	49,139	51,663	50,382	6.97	8.23	9.39	9.60	10.17
Capital outlay	-	3,447	12,948	4,019	400	0.00	5.90	0.67	2.53	0.79
<b>Total expenditures</b>	<b>397,667</b>	<b>309,099</b>	<b>254,750</b>	<b>262,634</b>	<b>243,953</b>	<b>67.94</b>	<b>73.50</b>	<b>60.27</b>	<b>49.79</b>	<b>51.70</b>
<b>Excess revenues over (under) expenditures</b>	<b>\$ 187,671</b>	<b>\$ 203,715</b>	<b>\$ 256,901</b>	<b>\$ 245,362</b>	<b>\$ 267,984</b>	<b>32.06 %</b>	<b>26.50 %</b>	<b>39.73 %</b>	<b>50.21 %</b>	<b>48.30 %</b>

**VICTORIA COUNTY GROUNDWATER CONSERVATION DISTRICT  
TSI-8. BOARD MEMBERS, CONSULTANTS, AND KEY ADMINISTRATIVE PERSONNEL  
For the Year Ended September 30, 2014**

Complete District Mailing Address: 2805 N. Navarro, Suite 210, Victoria, Texas 77901

District Business Telephone Number: (361) 579-6863

Submission Date of the most recent District Registration Form: February 24, 2014  
(TWC Sections 36.054 and 49.054)

Limit on Fees of Office that a Director may receive during a fiscal year: Zero  
(Set by Board Resolution – TWC Section 49.060)

<u>Names:</u>	<u>Term of Office (Elected or Appointed) or Date Hired</u>	<u>Fees of Office Paid Year Ended 09/30/14</u>	<u>Expense Reim- bursements Year Ended 09/30/14</u>	<u>Title at Year End</u>
<b>Board Members:</b>				
D. Mark Meek	Elected 1/12 – 1/16	\$0	\$0	President
Jerry J. Hroch	Elected 1/14 – 1/18	\$0	\$0	Vice Pres.
Barbara A. Dietzel	Elected 1/14 – 1/18	\$0	\$0	Secretary
Thurman Clements, Jr.	Elected 1/12 – 1/16	\$0	\$0	Director
Kenneth L. Eller	Elected 1/12 – 1/16	\$0	\$228	At Large
<b>Consultants:</b>				
Allison, Bass & Associates, L.L.P.		\$37,097		Attorney
Goldman, Hunt & Notz, L.L.P.		\$7,100		Auditor
Catherine Ozment, CPA		\$4,225		Payroll services
Pastor, Behling & Wheeler, LLC		\$50,925		Groundwater specialist
Barbara Dietzel		\$10,440		Records management
<b>Key Administrative Personnel:</b>				
Tim Andruss		\$80,905	\$1,102	District Manager
Donna Yanta		\$31,105		District Secretary



