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JETT ENVIRONMENTAL CONSULTING

August 31, 2015

Ms. Deborah DeLong
Kentucky Department for Environmental Protection
Division of Waste Management
Solid Waste Branch
200 Fair Oaks Lane, 2nd Floor
Frankfort, KY 40601

Re: Third Quarter 2015 Groundwater Sampling Event, Statistical Analysis Report
Green Valley Landfill, Ashland, Kentucky

Dear Ms. DeLong:

On behalf of the Green Valley Landfill, Jett Environmental Consulting is submitting a hardcopy of the Third Quarter 2015 Groundwater Statistical Analysis Report.

If you have any questions or comments, please contact me at steve.jett@jettenviro.com or 314-496-4654.

Sincerely,

Steve Jett, P.G.
Owner

Attachment: *Groundwater Statistical Analysis Report (1 Copy)*

cc: *Green Valley Landfill (1 Hardcopy)*
Bill Chlebowy, Republic Services, Inc. (PDF via Email)

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SOLID WASTE BRANCH

10 Quiet Brook Court
St. Charles, MO 63303

314-496-4654
www.jettenviro.com

Groundwater
Statistical Analysis Report

Third Quarter 2015
Sampling Event

Green Valley Landfill
Ashland, Kentucky
Permit No. 045-00012

August 2015

Prepared by:

JETT ENVIRONMENTAL CONSULTING

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1.0 INTRODUCTION

On behalf of Green Valley Landfill General Partnership, Jett Environmental Consulting statistically evaluated the Third Quarter (July) 2015 groundwater data. Sampling was performed by Kenvirons, Inc. and analytical testing was performed by Pace Analytical Services, Inc. The statistical evaluation software package utilized, *Sanitas™,* follows a documented decision logic that incorporates the following applicable guidance document: USEPA "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance" (March 2009).

2.0 SITE BACKGROUND AND MONITORING NETWORK

Jett Environmental Consulting statistically analyzed parameters from the Green Valley Landfill Third Quarter 2015 monitoring event using intra-well prediction limits from the historical background data. Prediction limits are considered a powerful tool for groundwater statistical analysis, when feasible, due to their inherent low false negative and false positive rates utilizing confirmatory resampling, if necessary. **Table 1** lists the groundwater monitoring wells at the site. The site submitted a Groundwater Statistical Monitoring Plan on December 9, 2011. The Kentucky Department for Environmental Protection (KDEP) approved the statistical analysis plan for the monitoring wells in correspondence dated August 16, 2012. **Table 2** details background dates and parameters used for statistical evaluations at the site. The background database for the Green Valley Landfill will be updated approximately every one to two years.

The facility received KDEP permission on August 16, 2012 to reduce the groundwater program to annual sampling for parameters in KAR Title 401 Chapter 48:300 Section 11(3)(a) and (b) and quarterly sampling for parameters in KAR Title 401 Chapter 48:300 Section 11(3)(f).

During the Third Quarter 2015 sampling event, each well was sampled for the quarterly parameters listed in Section 11(3)(f).

According to Kenvirons, Inc. groundwater sampling during the Third Quarter 2015 event was completed on two different dates due to field equipment malfunction. Wells MW-1, MW-1A, and MW-1B were sampled on July 2, 2015 and wells MW-3, MW-28C, MW-28D, and MW-28E were sampled on July 7, 2015.

3.0 SITE HYDROGEOLOGY

As identified in the *Modification to Permit No. 045-00012,* dated July 1997 by Kenvirons, Inc. hydrogeologic conditions at the site consist of three aquifers: alluvial/fracture zone, Princess No. 3 coal zone, and the Fire Clay coal zone. Recharge for the alluvial/fracture zone is from secondary porosity due to naturally occurring stress relief fractures in the upper zone of the bedrock. The direction of flow in the alluvium/fracture zone aquifer is a subdued reflection of the topographic relief with the area of recharge limited to the watershed divide.

The alluvium/fracture zone is considered the uppermost aquifer at the site and is utilized for detection of possible facility impacts. **Appendix A** provides a potentiometric surface map for the alluvial/fracture zone utilizing groundwater level data from the Third Quarter 2015 event. Groundwater flow direction for the Third Quarter 2015 event is generally to the west/northwest, consistent with past events. Groundwater flow rate for the Third Quarter 2015 event was estimated to be 3.5 feet/year. Flow rate calculations are available in **Appendix A**.

4.0 STATISTICAL PROCEDURES

The *Sanitas™* program was utilized to compile and statistically evaluate the data for the July 2015 sampling event. Summary tables for the intra-well prediction interval analysis are available in **Appendix B**.

4.1 Outlier Analysis

The background data were evaluated for the presence of statistical outliers. Methodologies for determining a statistical outlier are defined in the EPA document, Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities – Unified Guidance (March 2009). Any statistical outliers that were determined were removed from the background data set prior to performing prediction interval statistical analysis. According to the EPA guidance documents above, data that are not normally or log-normally distributed are not recommended for evaluation of outliers. In cases where the data were not normally or log-normally distributed, outliers were not removed from the data set. Background outliers flagged for removal are identified on the statistical plots provided in **Appendix B**.

4.2 Intra-Well Prediction Intervals

The prediction interval is a statistical method used to compare a single observation to a group of observations. The prediction interval is calculated to include observations from the same population with a specified confidence. In groundwater monitoring, a prediction interval approach may be used to make comparisons between background and compliance data. The interval is developed to contain all future observations, within a certain probability. For the site, intra-well prediction intervals have been developed based on a 99% confidence that future observations will fall within the range. If any future observation exceeds the prediction interval, this is considered statistically significant evidence that the observation is not representative of the background group.

During parametric prediction interval analysis, the mean and the standard deviation are calculated for the raw or transformed background data. The number of comparison observations, *K*, is defined to be included in the interval. If less than 15% of the background observations are nondetects, the nondetects are replaced with one half of the reporting limit prior to performing the analysis. If more than 15% but less than 50% of the background data are below the reporting limit, the data's sample mean and standard deviation are adjusted according to the Kaplan-Meier method. However, when the background data are not transformed-normal or contain greater than 50% observations below the reporting limit, *Sanitas™* automatically constructs a nonparametric prediction interval. During nonparametric analysis, the highest value from the background data is used to set the upper limit of the prediction interval.

During the July 2015 event, one result exceeded an intra-well prediction limit: chloride at MW-28D. Chloride does not have an established National Primary Drinking Water Standard-Maximum Contaminant Level (MCL) or KDEP MCL. **Table 3** summarizes the July 2015 prediction limit exceedances. Included in **Appendix B** are the prediction interval summary tables.

The statistical exceedance observed during the July 2015 event (chloride at MW-28D) was observed during the previous three quarterly events (Fourth Quarter 2014, First Quarter 2015, and Second Quarter 2015), and represents a confirmed exceedance.

The July 2015 chloride concentration at MW-28D (29.7 mg/L) is well below the National Secondary Drinking Water Standard of 250 mg/L. The July 2015 chloride concentration at MW-28D is consistent with historical concentrations at adjacent well MW-28C (5.8 to 38 mg/L) and MW-1B (6.23 to 52.4 mg/L). The chloride exceedance during the July 2015 event at MW-28D appears to be due to naturally occurring conditions.

Included in **Appendix B** are time series plots for each of the parameters statistically analyzed for this reporting period. **Appendix C** contains a copy of the laboratory analytical report and field information logs for the July 2015 event.

5.0 STATISTICAL RESULTS SUMMARY

During the July 2015 event, one result exceeded an intra-well prediction limit: chloride at MW-28D. Chloride does not have an established National Primary Drinking Water Standard-MCL or KDEP MCL.

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Continuation of Detection Monitoring is recommended for the site.

TABLES

TABLE 1 GROUNDWATER MONITORING WELLS GREEN VALLEY LANDFILL
MW-1, MW-1A, MW-1B, MW-3, MW-28C, MW-28D, MW-28E

TABLE 2 BACKGROUND DATA USED IN STATISTICAL REPORTING GREEN VALLEY LANDFILL		
Well	**Parameters**	**Background Dates**
MW-1, MW-1A, MW-1B, MW-3	Annual	9/1992 - 5/2013
	Quarterly	9/1992 - 11/2013
MW-28C, MW-28D, MW-28E	Annual	10/2009 - 5/2013
	Quarterly	10/2009 - 11/2013

Notes:

•Annual sampling includes parameters listed in KAR Title 401 Chapter 48:300 Section 11(3)(a) and (b).

•Quarterly sampling includes parameters listed in KAR Title 401 Chapter 48:300 Section 11(3)(f).

•Background dates taken from Groundwater Statistical Monitoring Plan dated December 9, 2011 and approved by KDEP on August 16, 2012.

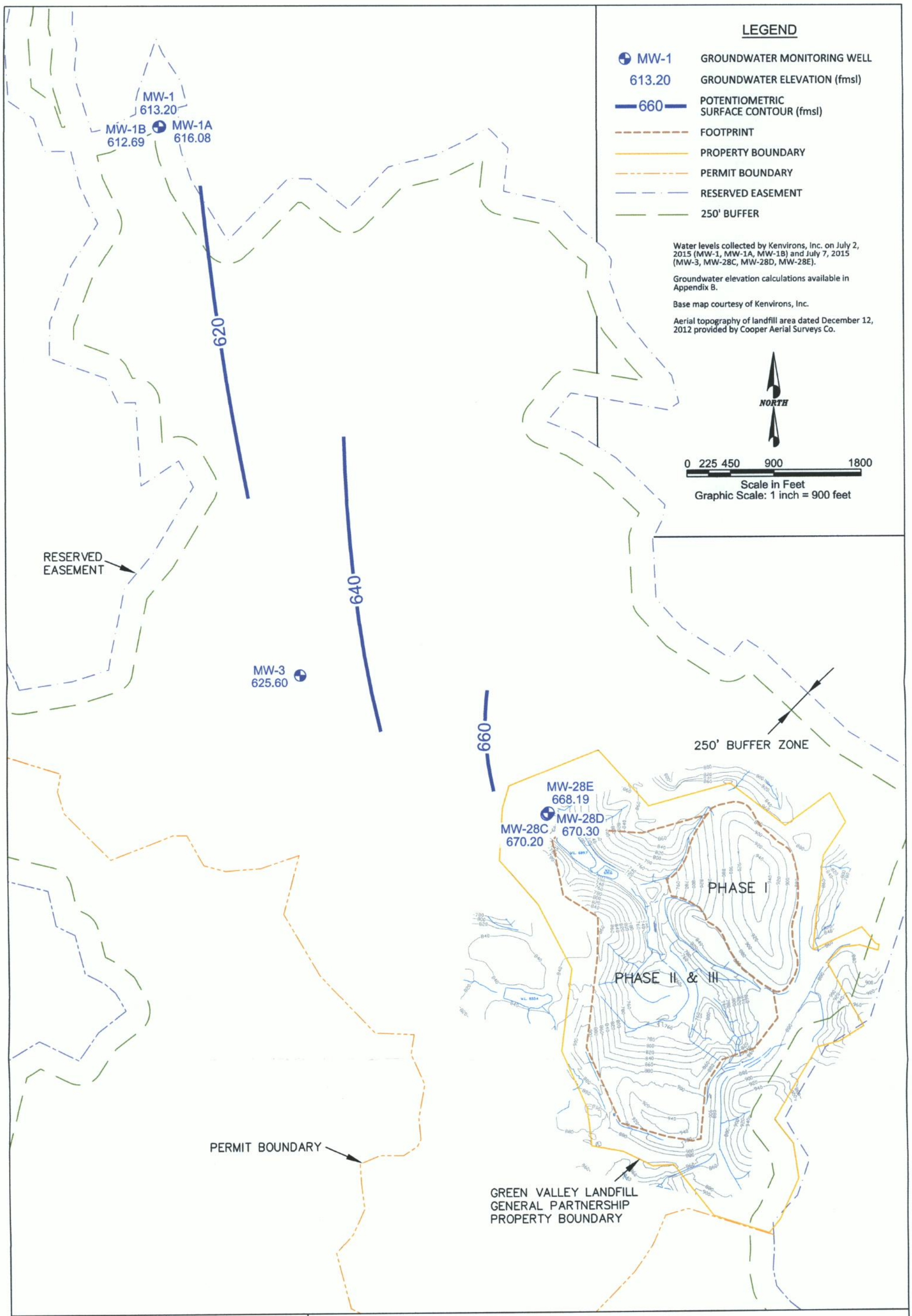
TABLE 3
INTRA-WELL PREDICTION LIMIT EXCEEDANCES
THIRD QUARTER 2015 MONITORING EVENT
GREEN VALLEY LANDFILL

Well	Parameter	Results	Prediction Limit
MW-28D	Chloride	29.7 mg/L	23 mg/L

APPENDICES

APPENDIX A

POTENTIOMETRIC SURFACE MAP



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Third Quarter 2015 Event
Alluvial-Fracture Zone, Potentiometric Surface Map
Green Valley Landfill, Ashland, Kentucky

Groundwater Elevation Summary Table
Green Valley Landfill

Well	Top of PVC Casing Elevation (fmsl)[1]	Depth to Water (ft)[2]	Groundwater Elevation (fmsl)
MW-1	617.80	4.60	613.20
MW-1A	618.60	2.52	616.08
MW-1B	618.70	6.01	612.69
MW-3	630.80	5.20	625.60
MW-28C	674.40	4.20	670.20
MW-28D	675.20	4.90	670.30
MW-28E	677.00	8.81	668.19

Note 1: Top of PVC Casing Elevations for MW-1, MW-1A, MW-1B, and MW-3 from the Groundwater Monitoring Plan compiled by Kenvirons, Inc. dated 4/23/04. Top of PVC Casing Elevations for MW-28C, MW-28D, and MW-28E from the Summary of Monitoring Well Abandonments and Installations by Stantec Consulting Services, Inc. dated 10/2/09.

Note 2: Depth to water collected by Kenvirons, Inc. on 7/2/15 (MW-1, MW-1A, MW-1B) and 7/7/15 (MW-3, MW-28C, MW-28D, MW-28E).

Groundwater Flow Velocity Calculations
Green Valley Landfill, Kentucky
Third Quarter 2015 Event

Velocity
$V = [(k)(i)]/(n)$
$V = [(1 \times 10^2 \text{ ft/year})(0.007 \text{ ft/ft})]/0.20$
$V =$ **3.5 ft/year**

Hydraulic conductivity (k_1) of the alluvium/fracture zone was noted in a Fuller, Mossbarger, Scott, & May (FMSM) Engineers, Inc. report entitled "Report of Geotechnical Exploration", dated August, 1992. The geotechnical exploration report indicates the alluvium to be predominantly silty and clayey sands type soils. As noted in the August 1992 FMSM "Report of Geotechnical Exploration", a hydraulic conductivity value of 1×10^2 feet/year, typical for silty and clayey sand soils was assumed for the alluvium.

Effective porosity (n): An effective porosity (n) of 0.20 was assumed for the alluvium.

Gradient (i) is from the average gradient at site using the potentiometric surface map from well MW-28C to well MW-1.

Gradient(i) = Change in Groundwater Elevation along Flow Path
i: From MW-28C (670.20 fmsl) to MW-1 (613.20 fmsl)/ Distance = 57.00 ft / 8,199 ft = 0.007

APPENDIX B

STATISTICAL EVALUATIONS

INTRA-WELL PREDICTION LIMITS
OLDER WELLS
QUARTERLY PARAMETERS

Prediction Limit

Green Valley Client: RSI Data: GREENVALLEY Printed 8/14/2015, 10:28 AM

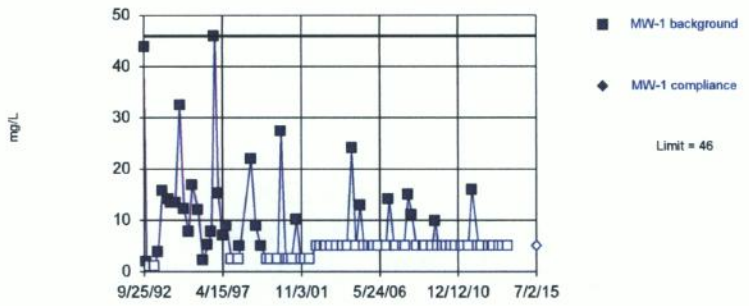
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chemical Oxygen Demand [COD] (mg/L)	MW-1	46	n/a	7/2/2015	5ND	No	84	n/a	n/a	61.9	n/a	n/a	0.0002756	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	MW-1A	47	n/a	7/2/2015	5ND	No	85	n/a	n/a	71.76	n/a	n/a	0.0002694	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	MW-1B	41	n/a	7/2/2015	5ND	No	85	n/a	n/a	67.06	n/a	n/a	0.0002694	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	MW-3	47	n/a	7/7/2015	5ND	No	82	n/a	n/a	69.51	n/a	n/a	0.000288	NP Intra (NDs) 1 of 2
Chloride (mg/L)	MW-1	10	n/a	7/2/2015	1.4	No	84	n/a	n/a	13.1	n/a	n/a	0.0002756	NP Intra (normality) 1 of 2
Chloride (mg/L)	MW-1A	4	n/a	7/2/2015	3.1	No	85	10.16	2.663	0	None	x^2	0.000418	Param Intra 1 of 2
Chloride (mg/L)	MW-1B	52	n/a	7/2/2015	35.1	No	85	n/a	n/a	0	n/a	n/a	0.0002694	NP Intra (normality) 1 of 2
Chloride (mg/L)	MW-3	15	n/a	7/7/2015	12.2	No	82	n/a	n/a	15.85	n/a	n/a	0.000288	NP Intra (normality) 1 of 2
Iron Total (mg/L)	MW-1	23	n/a	7/2/2015	0.15	No	84	n/a	n/a	0	n/a	n/a	0.0002756	NP Intra (normality) 1 of 2
Iron Total (mg/L)	MW-1A	9.6	n/a	7/2/2015	1	No	85	0.7703	0.7023	0	None	ln(x)	0.000418	Param Intra 1 of 2
Iron Total (mg/L)	MW-1B	11	n/a	7/2/2015	0.5331	No	85	n/a	n/a	4.706	n/a	n/a	0.0002694	NP Intra (normality) 1 of 2 Deseas
Iron Total (mg/L)	MW-3	58	n/a	7/7/2015	9.9	No	82	n/a	n/a	3.659	n/a	n/a	0.000288	NP Intra (normality) 1 of 2
pH [Field] (su)	MW-1	8.4	4.6	7/2/2015	5.84	No	84	6.5	0.8894	0	None	No	0.000209	Param Intra 1 of 2
pH [Field] (su)	MW-1A	8	6.2	7/2/2015	6.95	No	84	1.92	0.03908	0	None	x^(1/3)	0.000209	Param Intra 1 of 2
pH [Field] (su)	MW-1B	9.8	6.2	7/2/2015	7.45	No	85	n/a	n/a	0	n/a	n/a	0.0005389	NP Intra (normality) 1 of 2
pH [Field] (su)	MW-3	8.2	4.5	7/7/2015	5.7	No	81	1.806	0.138	0	None	ln(x)	0.000209	Param Intra 1 of 2
Sodium Total (mg/L)	MW-1	4.6	n/a	7/2/2015	2.046	No	82	0.703	0.3848	0	None	ln(x)	0.000418	Param Intra 1 of 2 Deseas
Sodium Total (mg/L)	MW-1A	360	n/a	7/2/2015	19.8	No	85	n/a	n/a	0	n/a	n/a	0.0002694	NP Intra (normality) 1 of 2
Sodium Total (mg/L)	MW-1B	600	n/a	7/2/2015	125	No	85	n/a	n/a	0	n/a	n/a	0.0002694	NP Intra (normality) 1 of 2
Sodium Total (mg/L)	MW-3	340	n/a	7/7/2015	7.8	No	82	n/a	n/a	0	n/a	n/a	0.000288	NP Intra (normality) 1 of 2
Specific Conductance [Field] (umhos/cm)	MW-1	880	n/a	7/2/2015	104.5	No	84	n/a	n/a	0	n/a	n/a	0.0002756	NP Intra (normality) 1 of 2 Deseas
Specific Conductance [Field] (umhos/cm)	MW-1A	440	n/a	7/2/2015	377	No	82	120248	36097	0	None	x^2	0.000418	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	MW-1B	770	n/a	7/2/2015	655	No	83	318256	127304	0	None	x^2	0.000418	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	MW-3	460	n/a	7/7/2015	300	No	82	5.006	0.5279	0	None	ln(x)	0.000418	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-1	120	n/a	7/2/2015	56	No	83	6.981	1.883	3.614	None	sqrt(x)	0.000418	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-1A	410	n/a	7/2/2015	223	No	85	n/a	n/a	0	n/a	n/a	0.0002694	NP Intra (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-1B	920	n/a	7/2/2015	383	No	85	n/a	n/a	0	n/a	n/a	0.0002694	NP Intra (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-3	340	n/a	7/7/2015	177	No	82	4.647	0.5563	0	None	ln(x)	0.000418	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	MW-1	10	n/a	7/2/2015	1	No	84	n/a	n/a	41.67	n/a	n/a	0.0002756	NP Intra (normality) 1 of 2
Total Organic Carbon [TOC] (mg/L)	MW-1A	26	n/a	7/2/2015	0.5ND	No	85	n/a	n/a	61.18	n/a	n/a	0.0002694	NP Intra (NDs) 1 of 2
Total Organic Carbon [TOC] (mg/L)	MW-1B	38	n/a	7/2/2015	0.5ND	No	85	n/a	n/a	58.82	n/a	n/a	0.0002694	NP Intra (NDs) 1 of 2
Total Organic Carbon [TOC] (mg/L)	MW-3	16	n/a	7/7/2015	1.9	No	82	n/a	n/a	21.95	n/a	n/a	0.000288	NP Intra (normality) 1 of 2
Total Organic Halides (mg/L)	MW-1	0.33	n/a	7/2/2015	0.005ND	No	84	n/a	n/a	78.57	n/a	n/a	0.0002756	NP Intra (NDs) 1 of 2
Total Organic Halides (mg/L)	MW-1A	1.0	n/a	7/2/2015	0.005ND	No	85	n/a	n/a	74.12	n/a	n/a	0.0002694	NP Intra (NDs) 1 of 2
Total Organic Halides (mg/L)	MW-1B	0.27	n/a	7/2/2015	0.005ND	No	85	n/a	n/a	60	n/a	n/a	0.0002694	NP Intra (NDs) 1 of 2
Total Organic Halides (mg/L)	MW-3	0.37	n/a	7/7/2015	0.005ND	No	82	n/a	n/a	67.07	n/a	n/a	0.000288	NP Intra (NDs) 1 of 2

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 84 background values. 61.9% NDs. Well-constituent pair annual alpha = 0.001102. Individual comparison alpha = 0.0002756 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

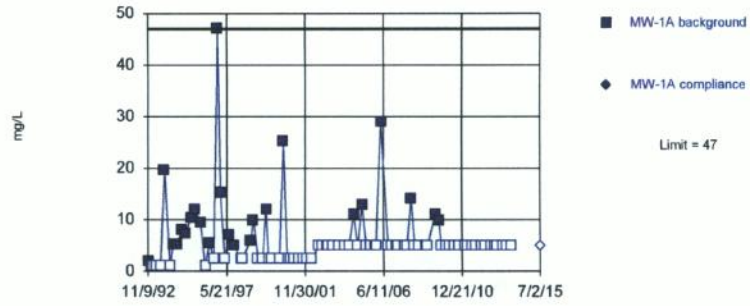
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Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 85 background values. 71.76% NDs. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

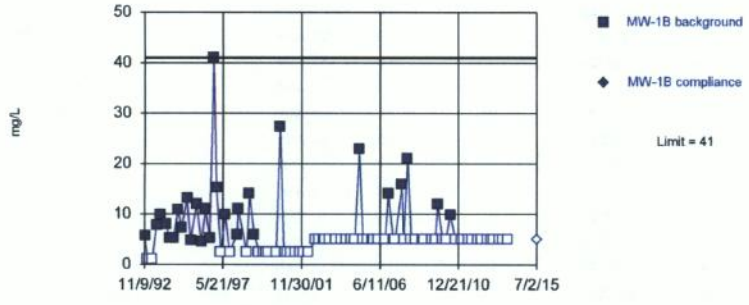
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Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 85 background values. 67.06% NDs. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

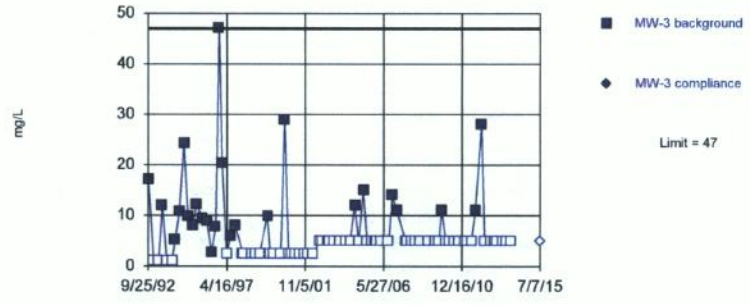
Constituent: Chemical Oxygen Demand [COD] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 82 background values. 69.51% NDs. Well-constituent pair annual alpha = 0.001152. Individual comparison alpha = 0.000288 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

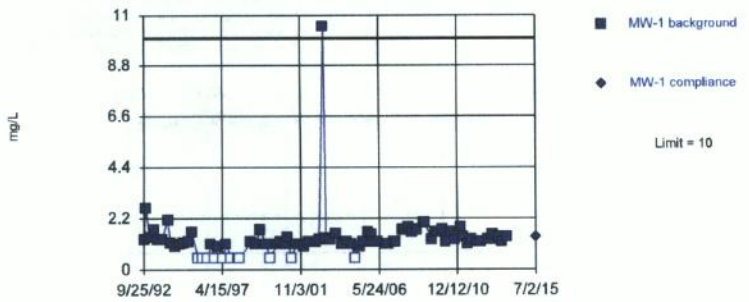
Constituent: Chemical Oxygen Demand [COD] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. 13.1% NDs. Well-constituent pair annual alpha = 0.001102. Individual comparison alpha = 0.0002756 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

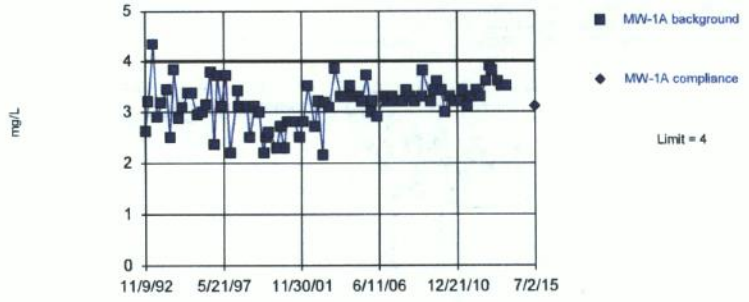
Constituent: Chloride Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=10.16, Std. Dev.=2.663, n=85. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.971, critical = 0.961. Kappa = 2.12 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

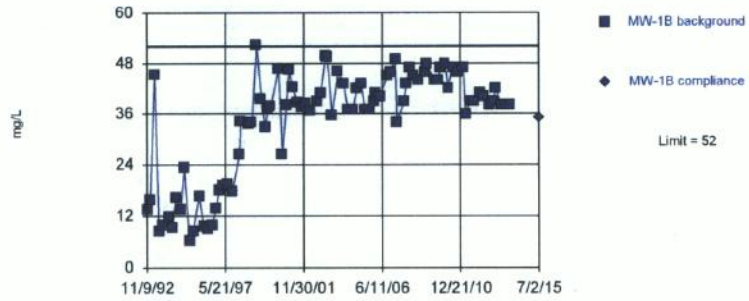
Constituent: Chloride Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 85 background values. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

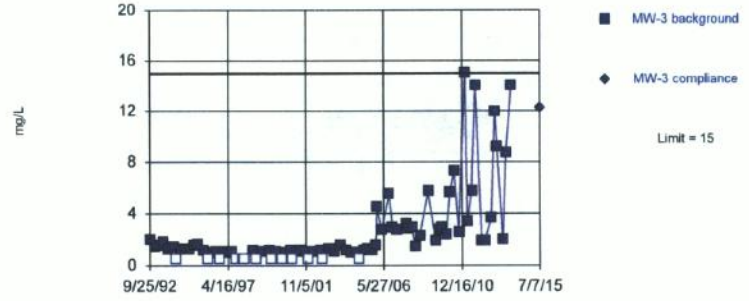
Constituent: Chloride Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 82 background values. 15.85% NDs. Well-constituent pair annual alpha = 0.001152. Individual comparison alpha = 0.000288 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

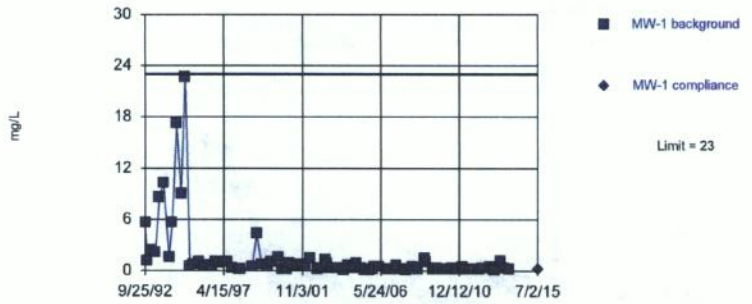
Constituent: Chloride Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

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Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. Well-constituent pair annual alpha = 0.001102. Individual comparison alpha = 0.0002756 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

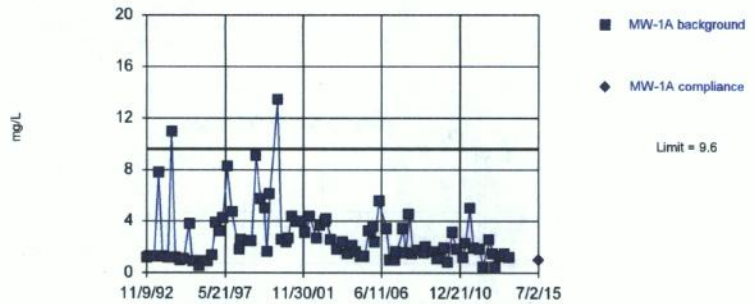
Constituent: Iron Total Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.7703, Std. Dev.=0.7023, n=85. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.986, critical = 0.961. Kappa = 2.12 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

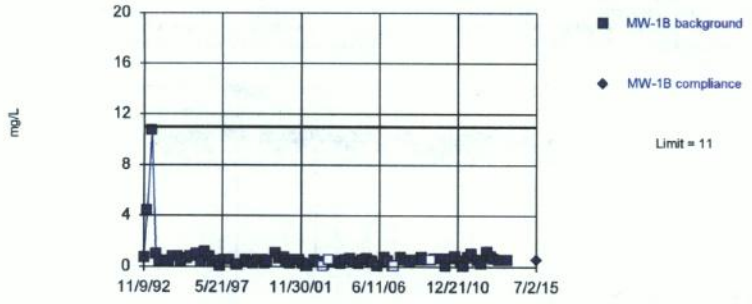
Constituent: Iron Total Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 85 background values. 4.706% NDs. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Data were deseasonalized.

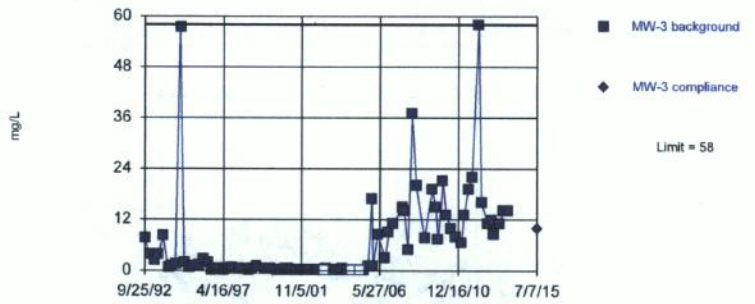
Constituent: Iron Total Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



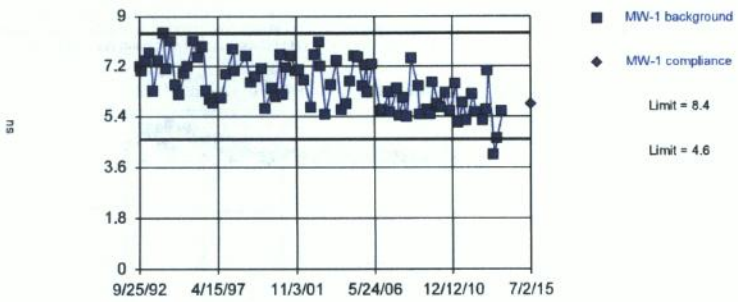
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 82 background values. 3.659% NDs. Well-constituent pair annual alpha = 0.001152. Individual comparison alpha = 0.000288 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

Constituent: Iron Total Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

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Within Limits

Prediction Limit
Intrawell Parametric



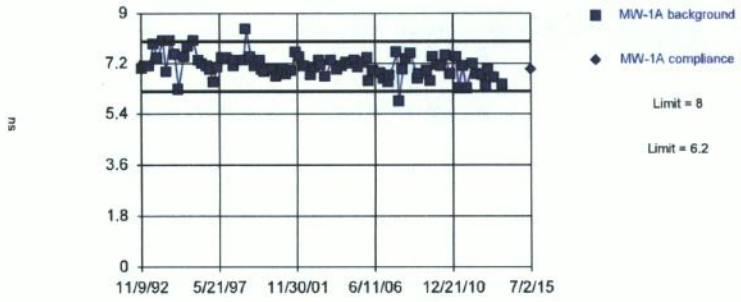
Background Data Summary: Mean=6.5, Std. Dev.=0.8894, n=84. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9812, critical = 0.96. Kappa = 2.121 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: pH [Field] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

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Within Limits

Prediction Limit
Intrawell Parametric



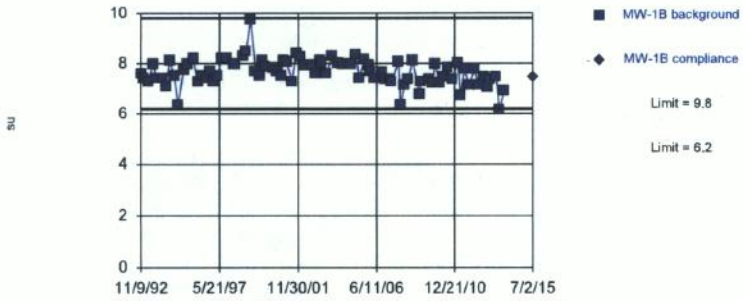
Background Data Summary (based on cube root transformation): Mean=1.92, Std. Dev.=0.03908, n=84. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9748, critical = 0.96. Kappa = 2.121 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Rosner's outlier test was performed on the background data. One background outlier was removed: 5.53 (7/17/2013).

Constituent: pH [Field] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

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Within Limits

Prediction Limit
Intrawell Non-parametric



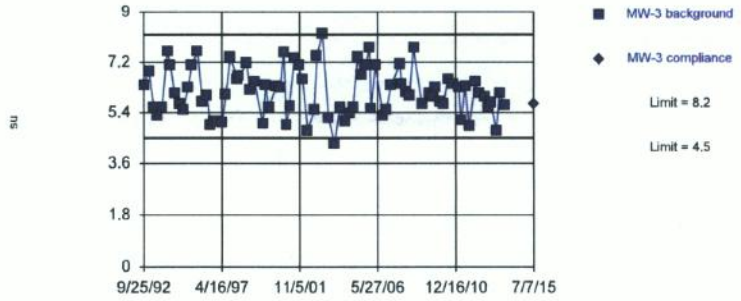
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 85 background values. Well-constituent pair annual alpha = 0.002155. Individual comparison alpha = 0.0005389 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified. Seasonality was not detected with 95% confidence.

Constituent: pH [Field] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

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Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.806, Std. Dev.=0.138, n=81. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9896, critical = 0.958. Kappa = 2.124 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

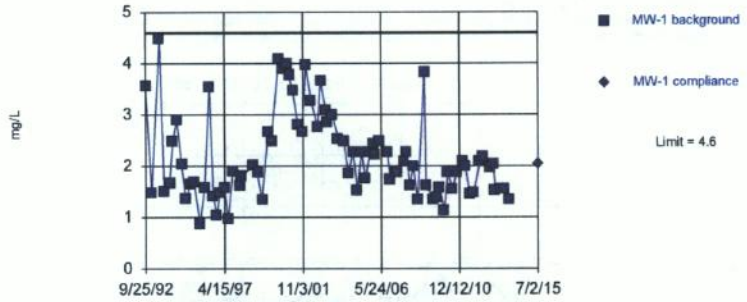
Constituent: pH [Field] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.703, Std. Dev.=0.3848, n=82. Seasonality was detected with 95% confidence and data were deseasonalized. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9718, critical = 0.959. Kappa = 2.123 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Rosner's outlier test was performed on the background data. Two background outliers were removed: 26.4 (11/9/1992); 131 (4/26/1993).

Constituent: Sodium Total Analysis Run 8/14/2015 10:27 AM

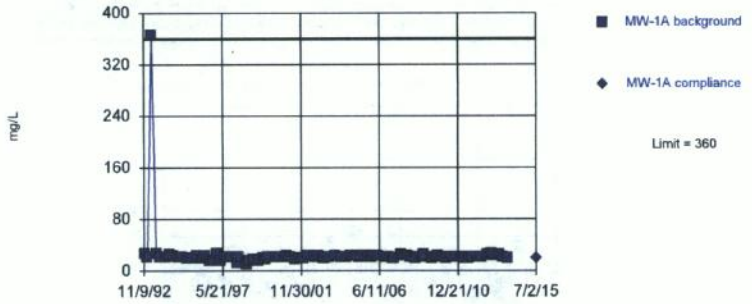
Green Valley Client: RSI Data: GREENVALLEY

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Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 85 background values. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified. Seasonality was not detected with 95% confidence.

Constituent: Sodium Total Analysis Run 8/14/2015 10:27 AM

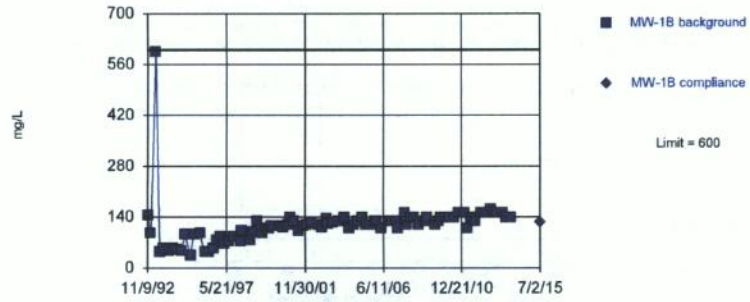
Green Valley Client: RSI Data: GREENVALLEY

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Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 85 background values. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

Constituent: Sodium Total Analysis Run 8/14/2015 10:27 AM

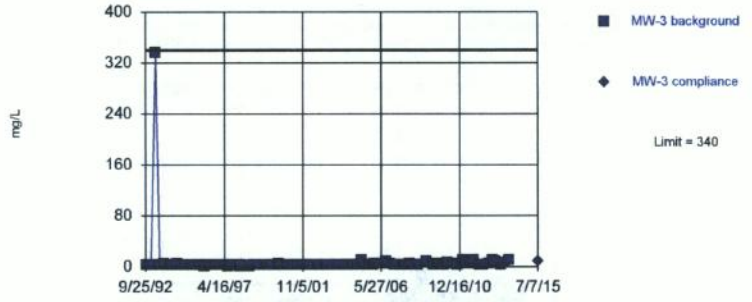
Green Valley Client: RSI Data: GREENVALLEY

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Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 82 background values. Well-constituent pair annual alpha = 0.001152. Individual comparison alpha = 0.000288 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

Constituent: Sodium Total Analysis Run 8/14/2015 10:27 AM

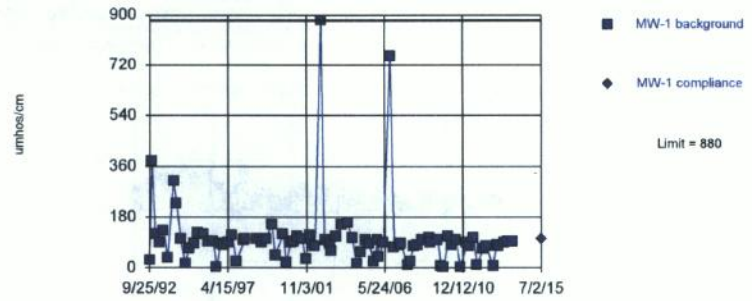
Green Valley Client: RSI Data: GREENVALLEY

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Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. Well-constituent pair annual alpha = 0.001102. Individual comparison alpha = 0.0002756 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Data were deseasonalized.

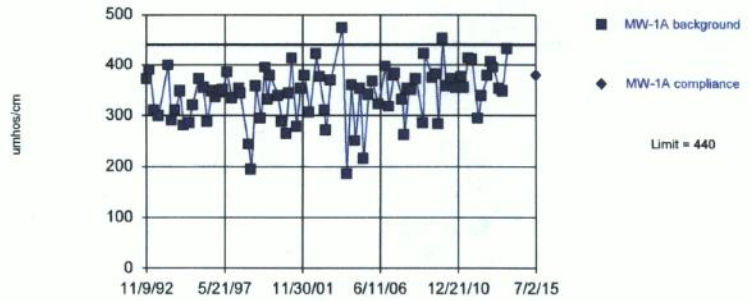
Constituent: Specific Conductance [Field] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=120248, Std. Dev.=36097, n=82. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9855, critical = 0.959. Kappa = 2.123 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Rosner's outlier test was performed on the background data. Three background outliers were removed: 100 (10/19/1993); 640 (11/25/2003); 140 (1/9/2006).

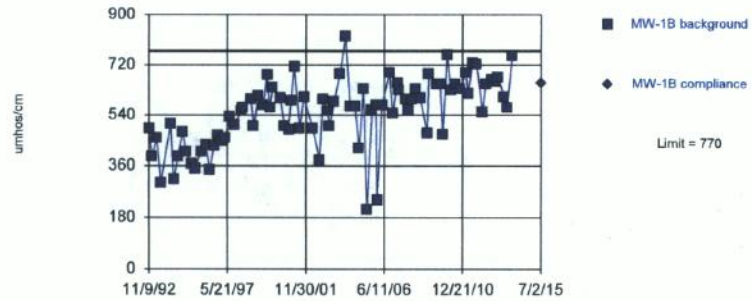
Constituent: Specific Conductance [Field] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=318256, Std. Dev.=127304, n=83. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9926, critical = 0.96. Kappa = 2.122 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Rosner's outlier test was performed on the background data. Two background outliers were removed: 100 (10/19/1993); 1038 (1/14/2002).

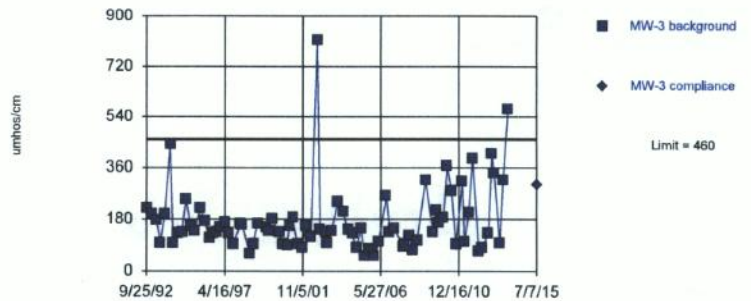
Constituent: Specific Conductance [Field] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.006, Std. Dev.=0.5279, n=82. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9676, critical = 0.959. Kappa = 2.123 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Rosner's outlier test was performed on the background data. No background outliers were found.

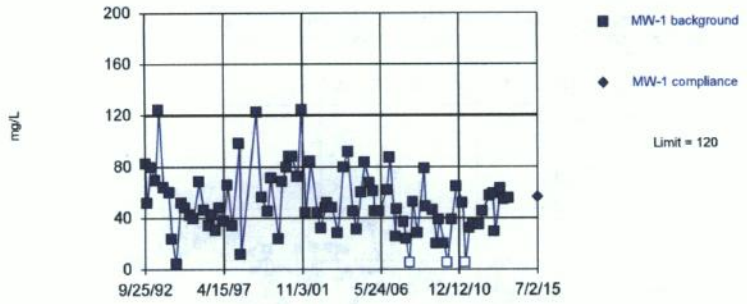
Constituent: Specific Conductance [Field] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=6.981, Std. Dev.=1.883, n=83, 3.614% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9688, critical = 0.96. Kappa = 2.122 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Rosner's outlier test was performed on the background data. One background outlier was removed: 308 (12/1/1998).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/14/2015 10:27 AM

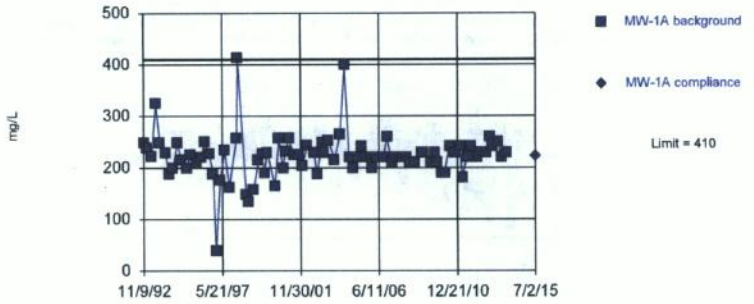
Green Valley Client: RSI Data: GREENVALLEY

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Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 85 background values. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). Distribution was found to be non-normal after removal of suspect values, so outliers could not be indentified. Seasonality was not detected with 95% confidence.

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/14/2015 10:27 AM

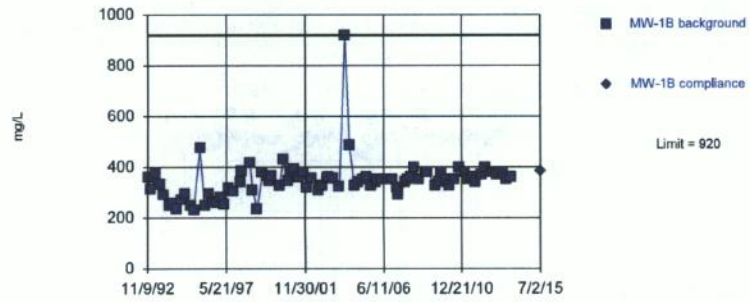
Green Valley Client: RSI Data: GREENVALLEY

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Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 85 background values. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/14/2015 10:27 AM

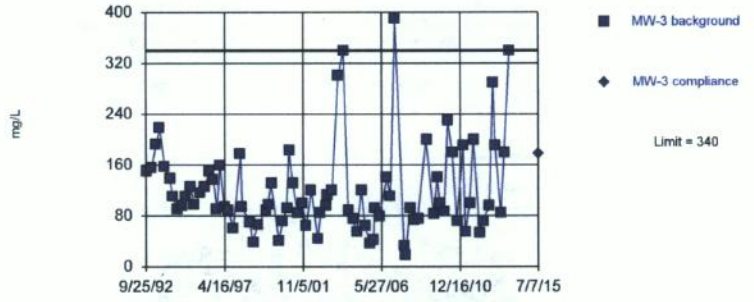
Green Valley Client: RSI Data: GREENVALLEY

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=4.647, Std. Dev.=0.5563, n=82. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9784, critical = 0.959. Kappa = 2.123 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Rosner's outlier test was performed on the background data. No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/14/2015 10:27 AM

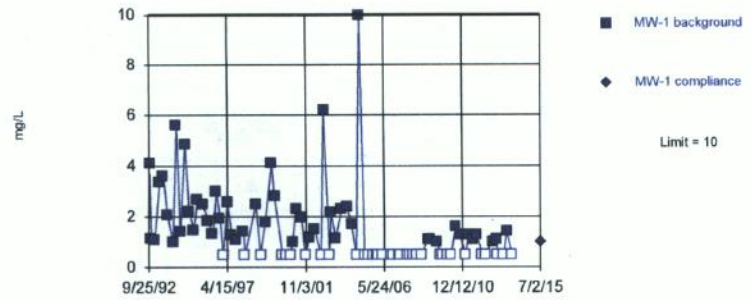
Green Valley Client: RSI Data: GREENVALLEY

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. 41.67% NDs. Well-constituent pair annual alpha = 0.001102. Individual comparison alpha = 0.0002756 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

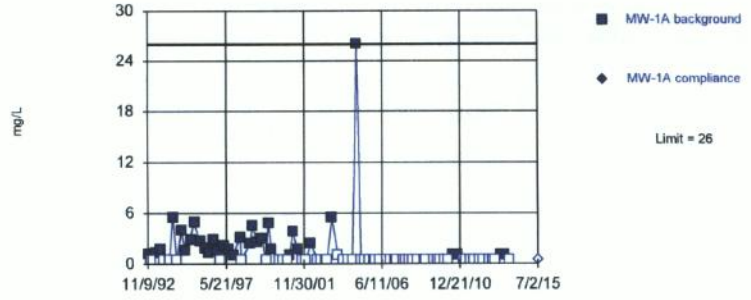
Constituent: Total Organic Carbon [TOC] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 85 background values. 61.18% NDs. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

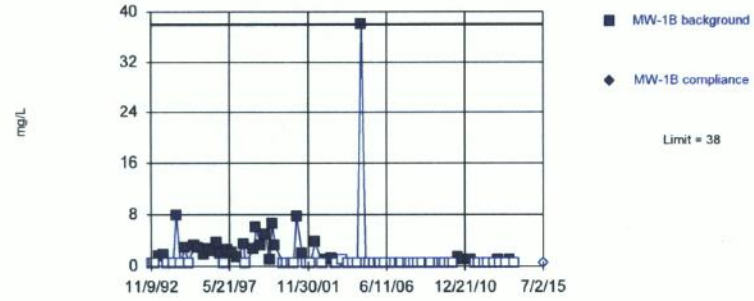
Constituent: Total Organic Carbon [TOC] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 85 background values. 58.82% NDs. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

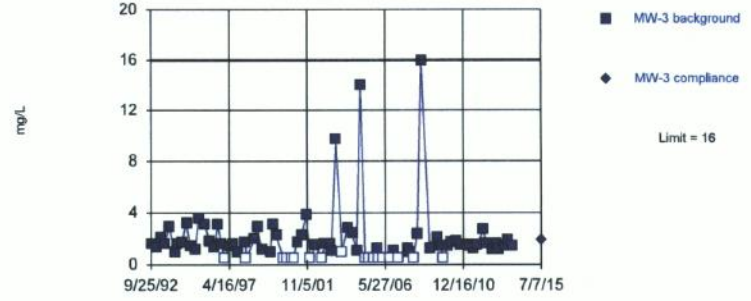
Constituent: Total Organic Carbon [TOC] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 82 background values. 21.95% NDs. Well-constituent pair annual alpha = 0.001152. Individual comparison alpha = 0.000288 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

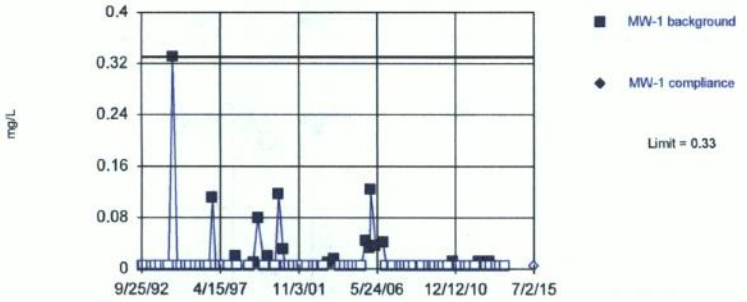
Constituent: Total Organic Carbon [TOC] Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 84 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.001102. Individual comparison alpha = 0.0002756 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

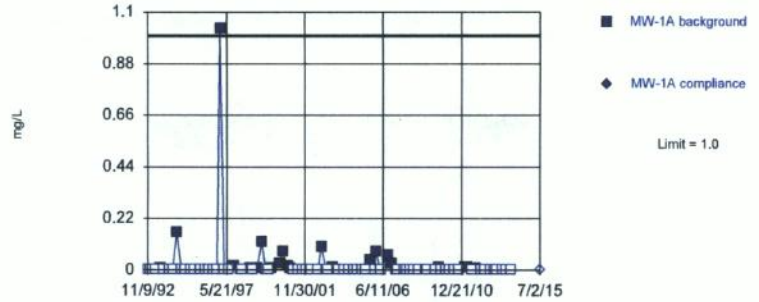
Constituent: Total Organic Halides Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 85 background values. 74.12% NDs. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

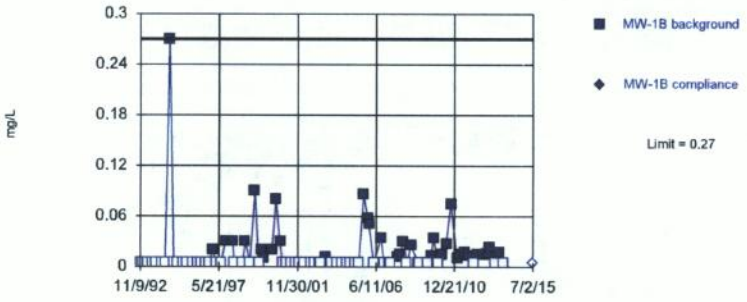
Constituent: Total Organic Halides Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 85 background values. 60% NDs. Well-constituent pair annual alpha = 0.001077. Individual comparison alpha = 0.0002694 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

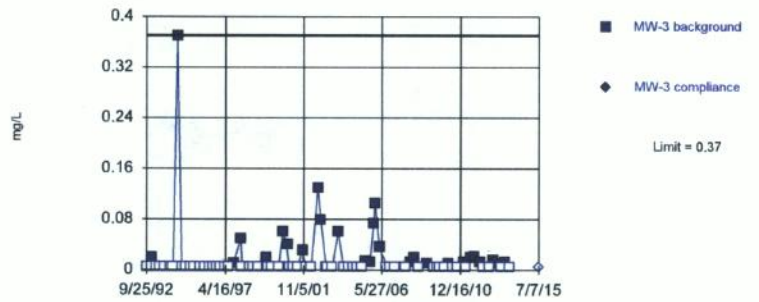
Constituent: Total Organic Halides Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 82 background values. 67.07% NDs. Well-constituent pair annual alpha = 0.001152. Individual comparison alpha = 0.000288 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

Constituent: Total Organic Halides Analysis Run 8/14/2015 10:27 AM
Green Valley Client: RSI Data: GREENVALLEY

INTRA-WELL PREDICTION LIMITS
NEWER WELLS
QUARTERLY PARAMETERS

Prediction Limit

Green Valley Client: RSI Data: GREENVALLEY Printed 8/14/2015, 9:04 AM

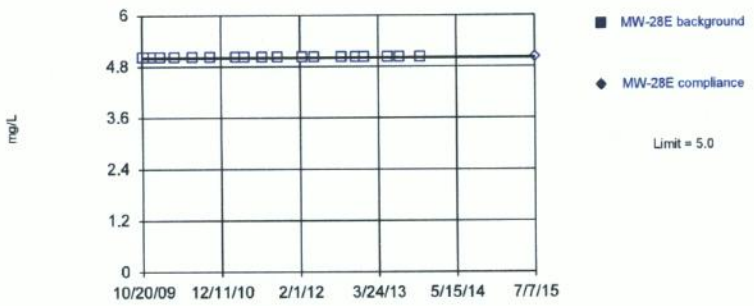
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chemical Oxygen Demand [COD] (mg/L)	MW-28E	5.0	n/a	7/7/2015	5ND	No	19	n/a	n/a	100	n/a	n/a	0.004738	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	MW-28D	12	n/a	7/7/2015	5ND	No	19	n/a	n/a	89.47	n/a	n/a	0.004738	NP Intra (NDs) 1 of 2
Chemical Oxygen Demand [COD] (mg/L)	MW-28C	27	n/a	7/7/2015	5ND	No	19	n/a	n/a	73.68	n/a	n/a	0.004738	NP Intra (NDs) 1 of 2
Chloride (mg/L)	MW-28E	2.4	n/a	7/7/2015	1.6	No	19	8.769	2.198	0	None	x^3	0.000418	Param Intra 1 of 2
Chloride (mg/L)	**MW-28D**	**23**	**n/a**	**7/7/2015**	**29.7**	**Yes**	**19**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.004738**	**NP Intra (normality) 1 of 2**
Chloride (mg/L)	MW-28C	43	n/a	7/7/2015	17.5	No	19	2.507	0.4018	0	None	x^(1/3)	0.000418	Param Intra 1 of 2
Iron Total (mg/L)	MW-28E	2.3	n/a	7/7/2015	0.79	No	19	-1.962	1.111	5.263	None	ln(x)	0.000418	Param Intra 1 of 2
Iron Total (mg/L)	MW-28D	260	n/a	7/7/2015	32.2	No	19	0.9493	1.847	0	None	ln(x)	0.000418	Param Intra 1 of 2
Iron Total (mg/L)	MW-28C	72	n/a	7/7/2015	12.1	No	19	n/a	n/a	0	n/a	n/a	0.004738	NP Intra (normality) 1 of 2
pH [Field] (su)	MW-28E	7.1	5.9	7/7/2015	6.34	No	16	1.866	0.03519	0	None	ln(x)	0.000209	Param Intra 1 of 2
pH [Field] (su)	MW-28D	6.8	4.2	7/7/2015	5.71	No	19	195.1	48.09	0	None	x^3	0.000209	Param Intra 1 of 2
pH [Field] (su)	MW-28C	6.6	3.6	7/7/2015	5	No	19	167.2	48.45	0	None	x^3	0.000209	Param Intra 1 of 2
Sodium Total (mg/L)	MW-28E	22	n/a	7/7/2015	10.3	No	19	247.1	96.1	0	None	x^2	0.000418	Param Intra 1 of 2
Sodium Total (mg/L)	MW-28D	39	n/a	7/7/2015	27.8	No	19	722.6	316.8	0	None	x^2	0.000418	Param Intra 1 of 2
Sodium Total (mg/L)	MW-28C	29	n/a	7/7/2015	14.2	No	19	16.86	4.952	0	None	No	0.000418	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	MW-28E	420	n/a	7/7/2015	284	No	18	5.799	0.09481	0	None	ln(x)	0.000418	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	MW-28D	810	n/a	7/7/2015	701	No	19	334002	126564	0	None	x^2	0.000418	Param Intra 1 of 2
Specific Conductance [Field] (umhos/cm)	MW-28C	850	n/a	7/7/2015	434	No	19	536.5	124.3	0	None	No	0.000418	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-28E	240	n/a	7/7/2015	155	No	18	6646389	2842487	0	None	x^3	0.000418	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-28D	460	n/a	7/7/2015	446	No	19	3.7e15	2.4e15	0	None	x^6	0.000418	Param Intra 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-28C	540	n/a	7/7/2015	281	No	19	360.5	71.53	0	None	No	0.000418	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	MW-28E	1.7	n/a	7/7/2015	0.5ND	No	19	1.11	0.228	21.05	Kaplan-Meier	No	0.000418	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	MW-28D	2.2	n/a	7/7/2015	1.6	No	19	0.4476	0.1376	0	None	ln(x)	0.000418	Param Intra 1 of 2
Total Organic Carbon [TOC] (mg/L)	MW-28C	2.9	n/a	7/7/2015	2	No	17	0.6108	0.1771	0	None	ln(x)	0.000418	Param Intra 1 of 2
Total Organic Halides (mg/L)	MW-28E	0.034	n/a	7/7/2015	0.005ND	No	19	n/a	n/a	73.68	n/a	n/a	0.004738	NP Intra (NDs) 1 of 2
Total Organic Halides (mg/L)	MW-28D	0.034	n/a	7/7/2015	0.012	No	19	n/a	n/a	36.84	n/a	n/a	0.004738	NP Intra (normality) 1 of 2
Total Organic Halides (mg/L)	MW-28C	0.061	n/a	7/7/2015	0.021	No	19	0.2636	0.05244	10.53	None	x^(1/3)	0.000418	Param Intra 1 of 2

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 100% NDs. Well-constituent pair annual alpha = 0.01882. Individual comparison alpha = 0.004738 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

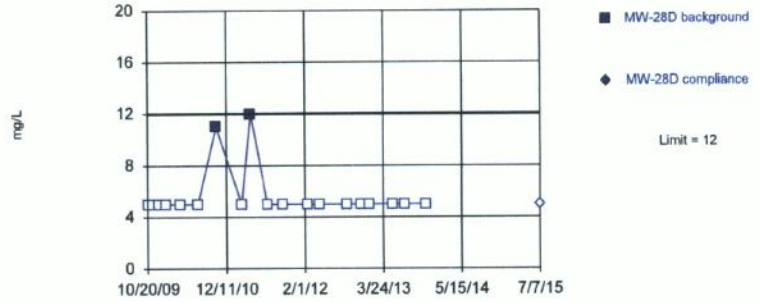
Constituent: Chemical Oxygen Demand [COD] Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Well-constituent pair annual alpha = 0.01882. Individual comparison alpha = 0.004738 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

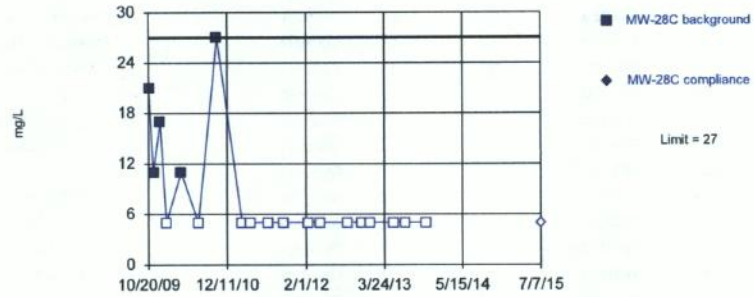
Constituent: Chemical Oxygen Demand [COD] Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 73.68% NDs. Well-constituent pair annual alpha = 0.01882. Individual comparison alpha = 0.004738 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

Constituent: Chemical Oxygen Demand [COD] Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=8.769, Std. Dev.=2.198, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9124, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. After outlier removal distribution was non-normal, so outlier results were invalidated.

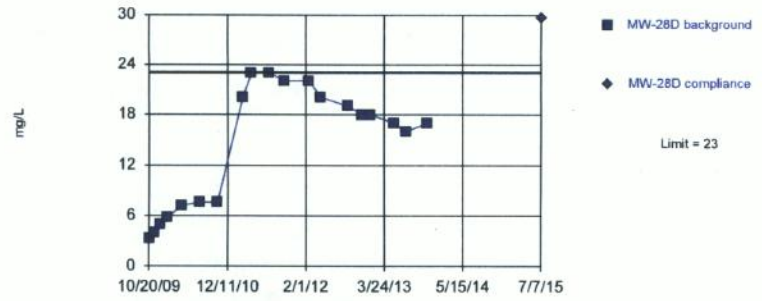
Constituent: Chloride Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 19 background values. Well-constituent pair annual alpha = 0.01882. Individual comparison alpha = 0.004738 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

Constituent: Chloride Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=2.507, Std. Dev.=0.4018, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.979, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

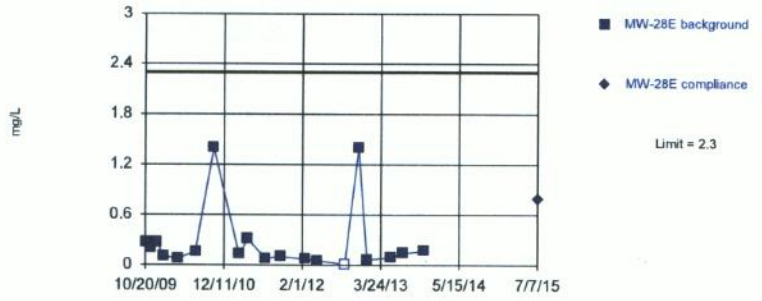
Constituent: Chloride Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-1.962, Std. Dev.=1.111, n=19, 5.263% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9173, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

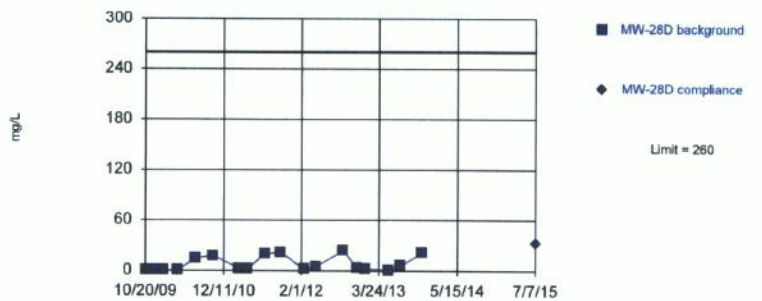
Constituent: Iron Total Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.9493, Std. Dev.=1.847, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.914, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

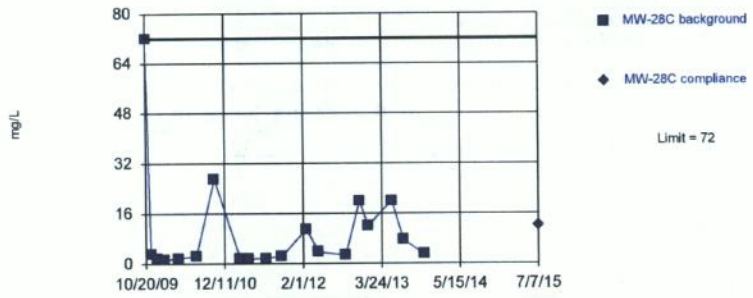
Constituent: Iron Total Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 19 background values. Well-constituent pair annual alpha = 0.01882. Individual comparison alpha = 0.004738 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

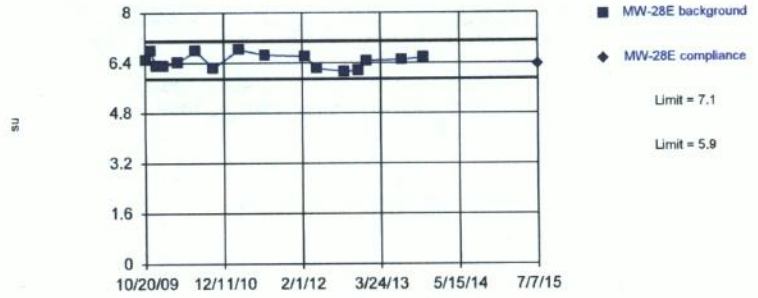
Constituent: Iron Total Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

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Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=1.866, Std. Dev.=0.03519, n=16. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9494, critical = 0.887. Kappa = 2.595 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Dixon's outlier test was performed on the background data. Three background outliers were removed: 4.76 (4/19/2011); 5.29 (10/11/2011); 5.44 (5/15/2013).

Constituent: pH [Field] Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=195.1, Std. Dev.=48.09, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.989, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Dixon's outlier test was performed on the background data. No background outliers were found.

Constituent: pH [Field] Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=167.2, Std. Dev.=48.45, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9925, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Dixon's outlier test was performed on the background data. No background outliers were found.

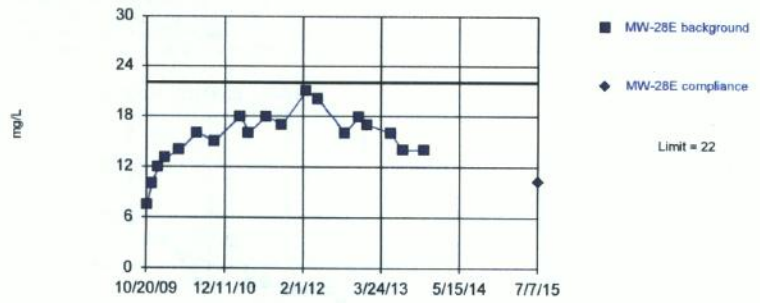
Constituent: pH [Field] Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=247.1, Std. Dev.=96.1, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9822, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Dixon's outlier test was performed on the background data. No background outliers were found.

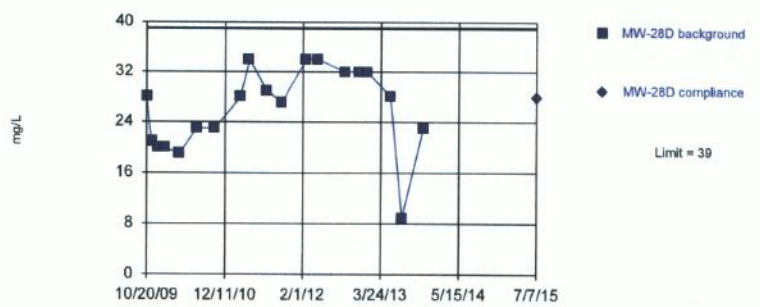
Constituent: Sodium Total Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=722.6, Std. Dev.=316.8, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9382, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Dixon's outlier test was performed on the background data. No background outliers were found.

Constituent: Sodium Total Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=16.86, Std. Dev.=4.952, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9629, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

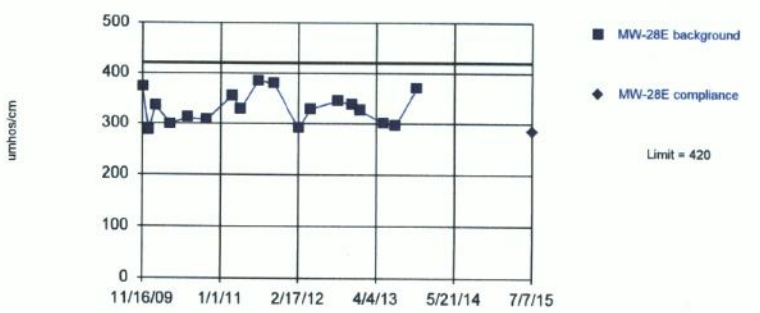
Constituent: Sodium Total Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.799, Std. Dev.=0.09481, n=18. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9463, critical = 0.897. Kappa = 2.531 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Dixon's outlier test was performed on the background data. One background outlier was removed: 210 (10/20/2009).

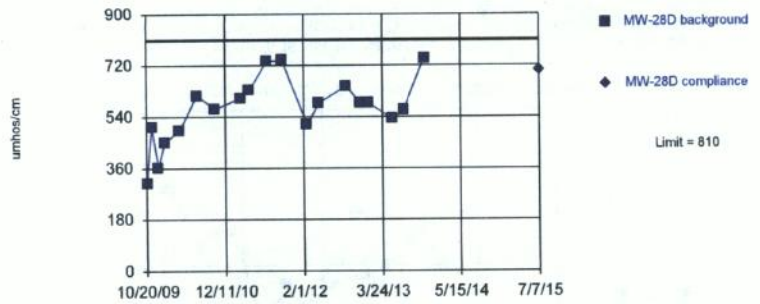
Constituent: Specific Conductance [Field] Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=334002, Std. Dev.=126564, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9603, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Dixon's outlier test was performed on the background data. No background outliers were found.

Constituent: Specific Conductance [Field] Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=536.5, Std. Dev.=124.3, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9702, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

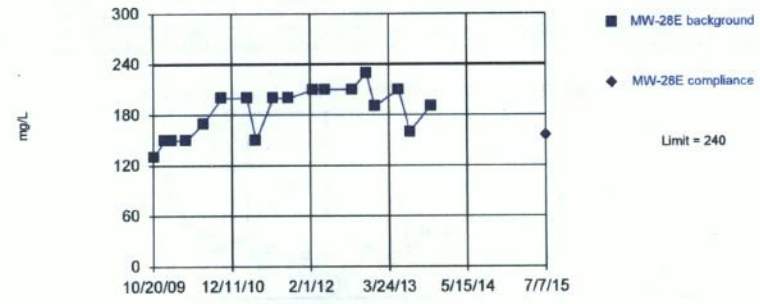
Constituent: Specific Conductance [Field] Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation): Mean=6646389, Std. Dev.=2842487, n=18. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.916, critical = 0.897. Kappa = 2.531 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Dixon's outlier test was performed on the background data. One background outlier was removed: 910 (11/16/2009).

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on x^6 transformation): Mean=3.7e15, Std. Dev.=2.4e15, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9093, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. After outlier removal distribution was non-normal, so outlier results were invalidated.

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=360.5, Std. Dev.=71.53, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9537, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Dissolved Solids [TDS] Analysis Run 8/14/2015 9:03 AM

Green Valley Client: RSI Data: GREENVALLEY

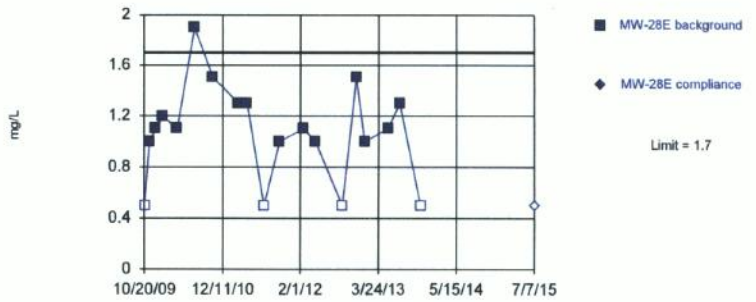
Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=1.11, Std. Dev.=0.228, n=19, 21.05% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9147, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Organic Carbon [TOC] Analysis Run 8/14/2015 9:03 AM

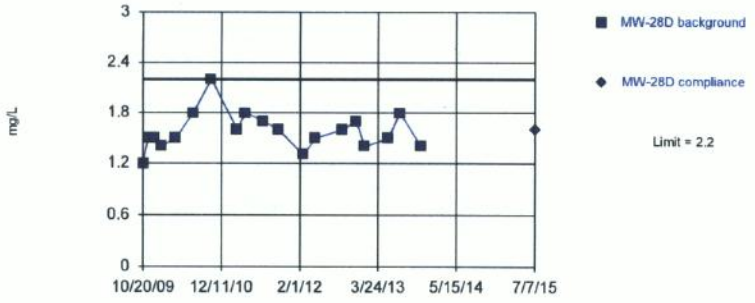
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.4476, Std. Dev.=0.1376, n=19. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9607, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Organic Carbon [TOC] Analysis Run 8/14/2015 9:03 AM

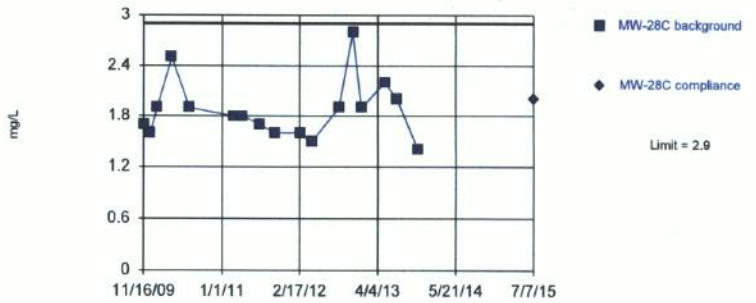
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=0.6108, Std. Dev.=0.1771, n=17. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9361, critical = 0.892. Kappa = 2.563 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. Dixon's outlier test was performed on the background data. Two background outliers were removed: 5.9 (10/20/2009); 7.5 (10/19/2010).

Constituent: Total Organic Carbon [TOC] Analysis Run 8/14/2015 9:03 AM

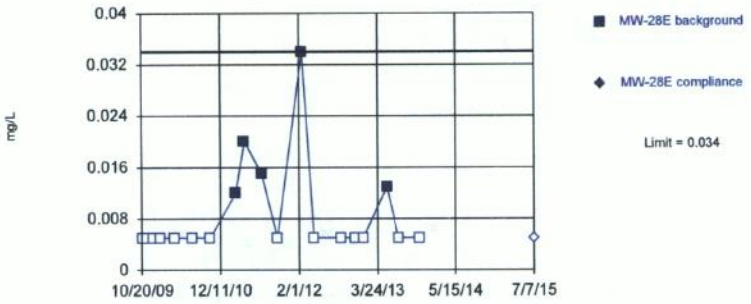
Green Valley Client: RSI Data: GREENVALLEY

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 73.68% NDs. Well-constituent pair annual alpha = 0.01882. Individual comparison alpha = 0.004738 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

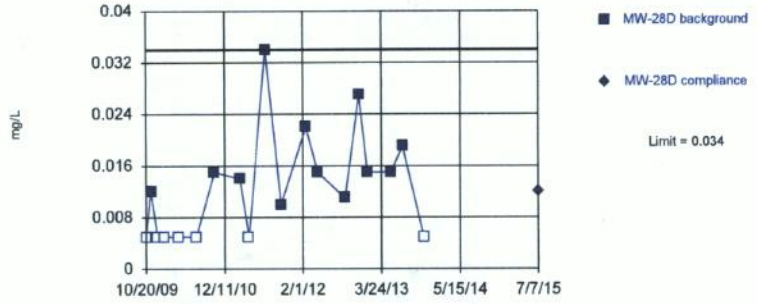
Constituent: Total Organic Halides Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 19 background values. 36.84% NDs. Well-constituent pair annual alpha = 0.01882. Individual comparison alpha = 0.004738 (1 of 2). After outlier removal distribution was non-normal, so outlier results were invalidated. Seasonality was not detected with 95% confidence.

Constituent: Total Organic Halides Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



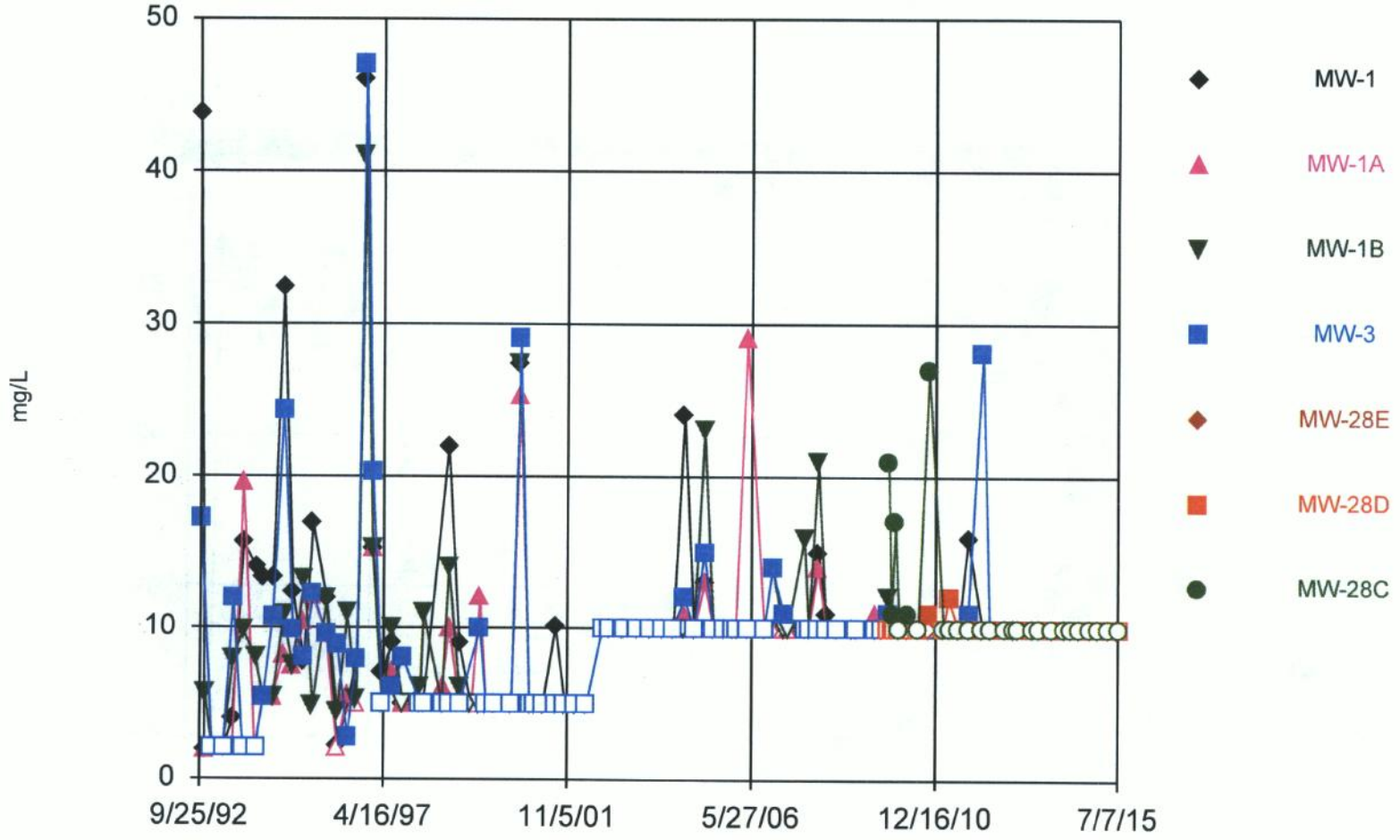
Background Data Summary (based on cube root transformation): Mean=0.2636, Std. Dev.=0.05244, n=19, 10.53% NDs. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9585, critical = 0.901. Kappa = 2.498 (c=9, w=7, 1 of 2, event alpha = 0.026). Report alpha = 0.000418. EPA 1989 outlier screening was performed on the background data (to establish suspected outliers for Dixon's/Rosner's). No background outliers were found.

Constituent: Total Organic Halides Analysis Run 8/14/2015 9:03 AM
Green Valley Client: RSI Data: GREENVALLEY

TIME SERIES PLOTS & DATA

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

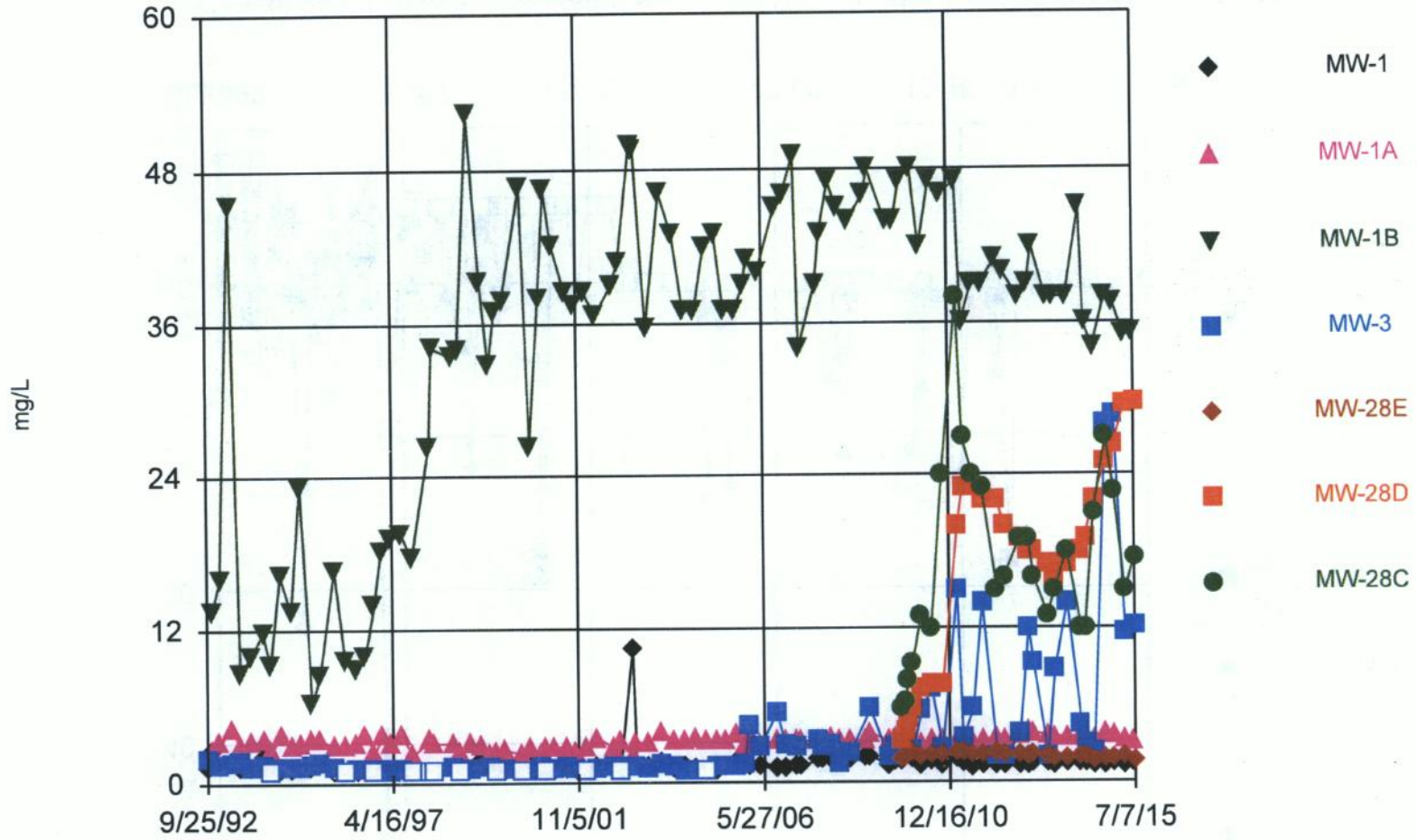


Constituent: Chemical Oxygen Demand [COD] Analysis Run 8/14/2015 9:05 AM

Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

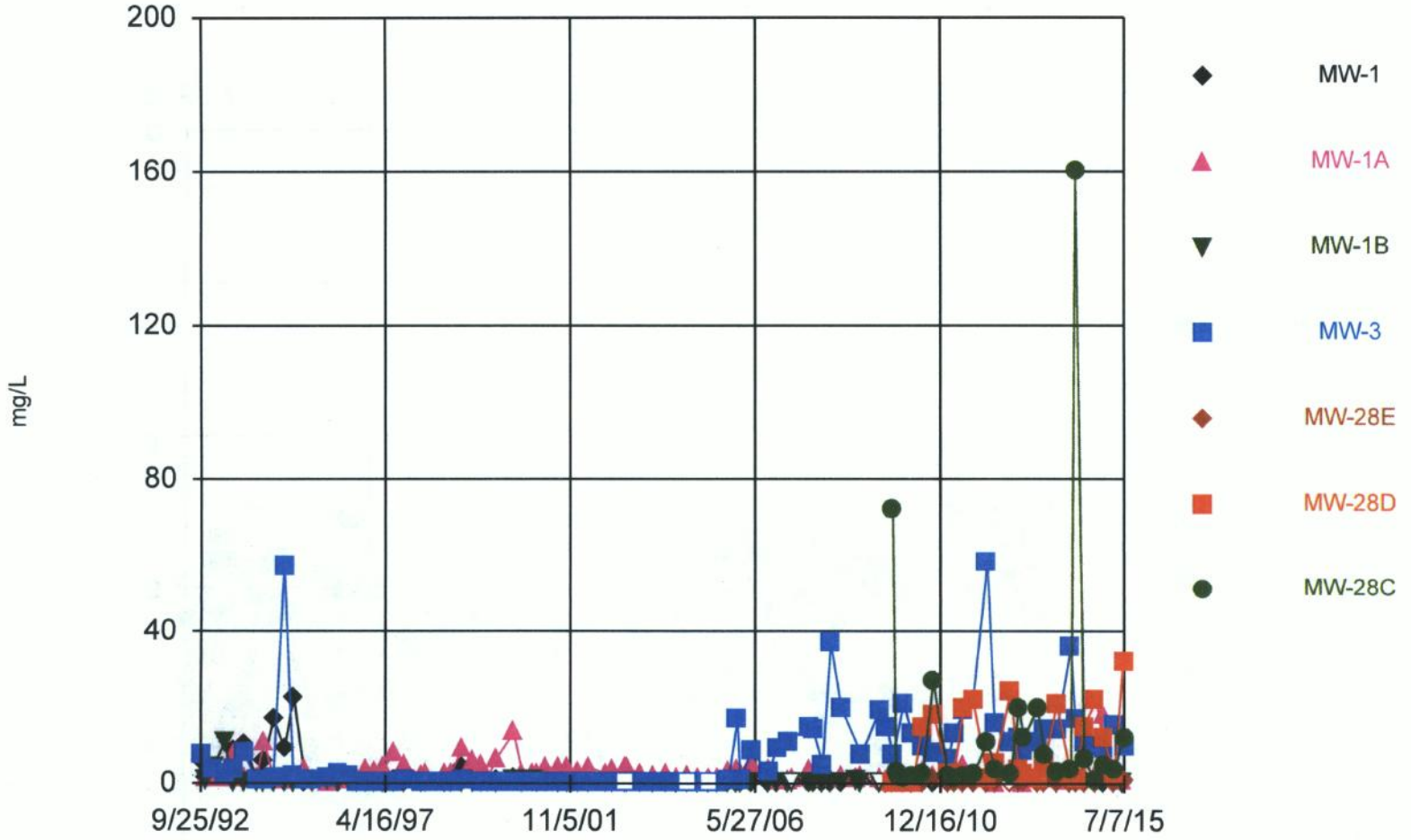


Constituent: Chloride Analysis Run 8/14/2015 9:05 AM

Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

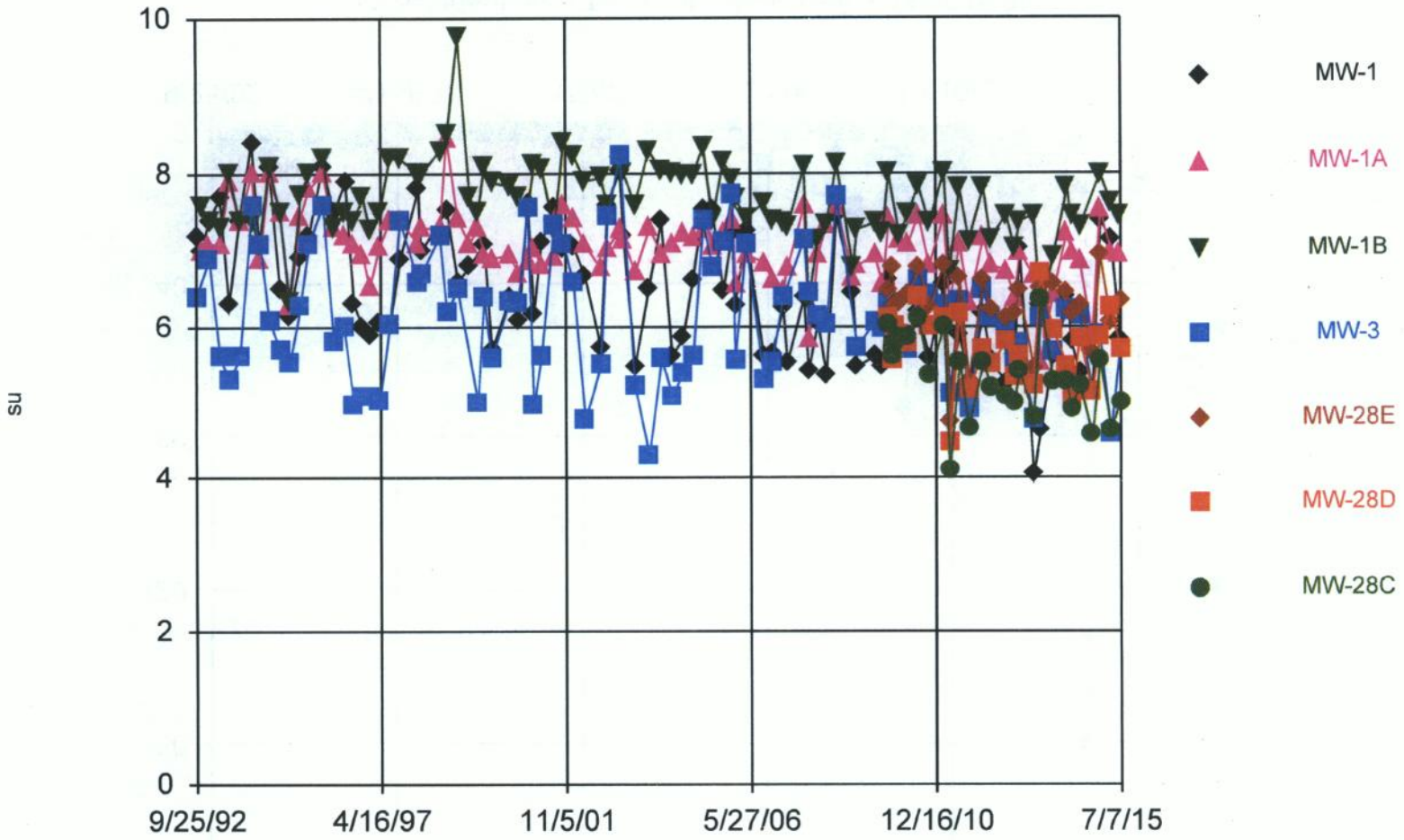


Constituent: Iron Total Analysis Run 8/14/2015 9:05 AM

Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting. UG

Time Series

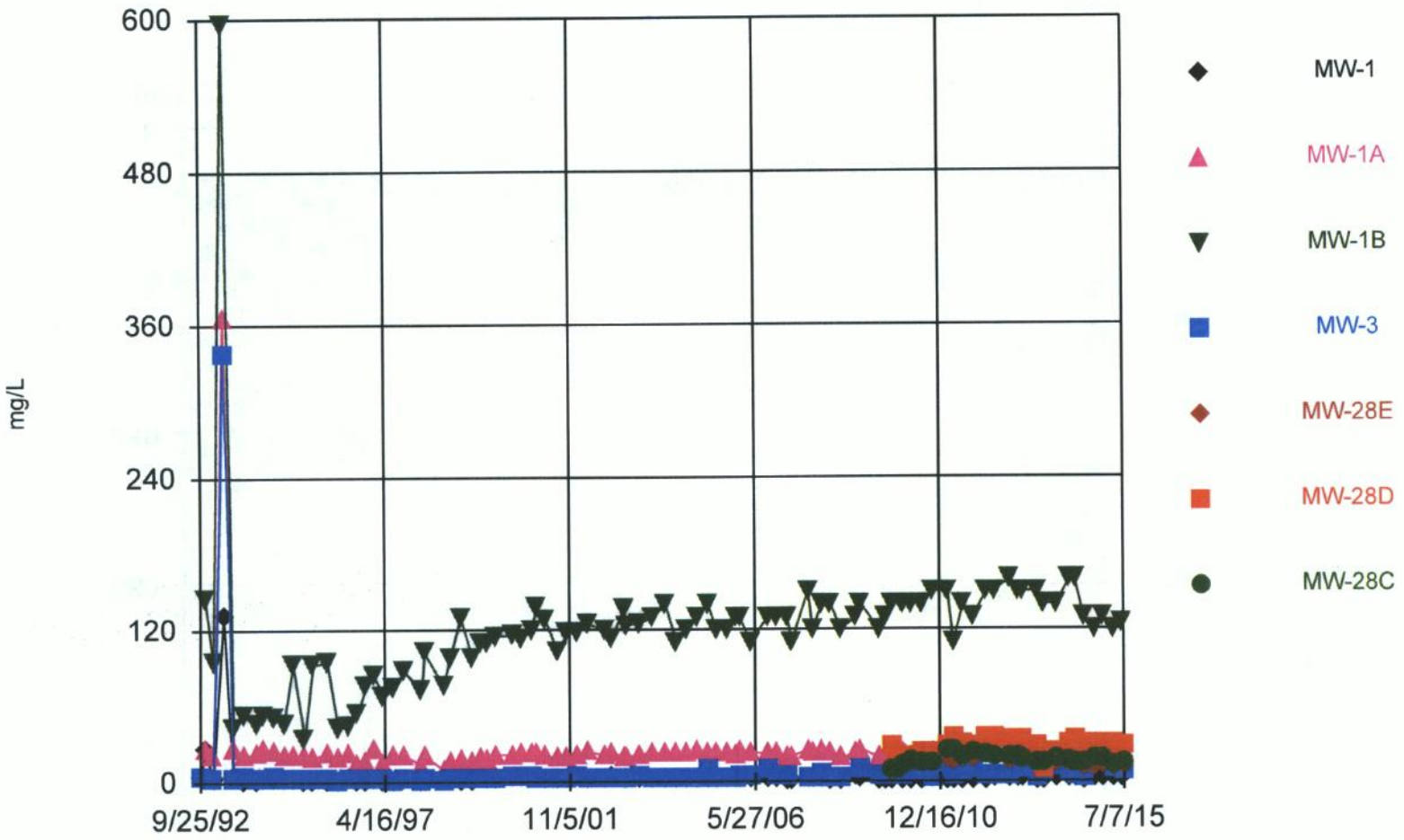


Constituent: pH [Field] Analysis Run 8/14/2015 9:05 AM

Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting. UG

Time Series

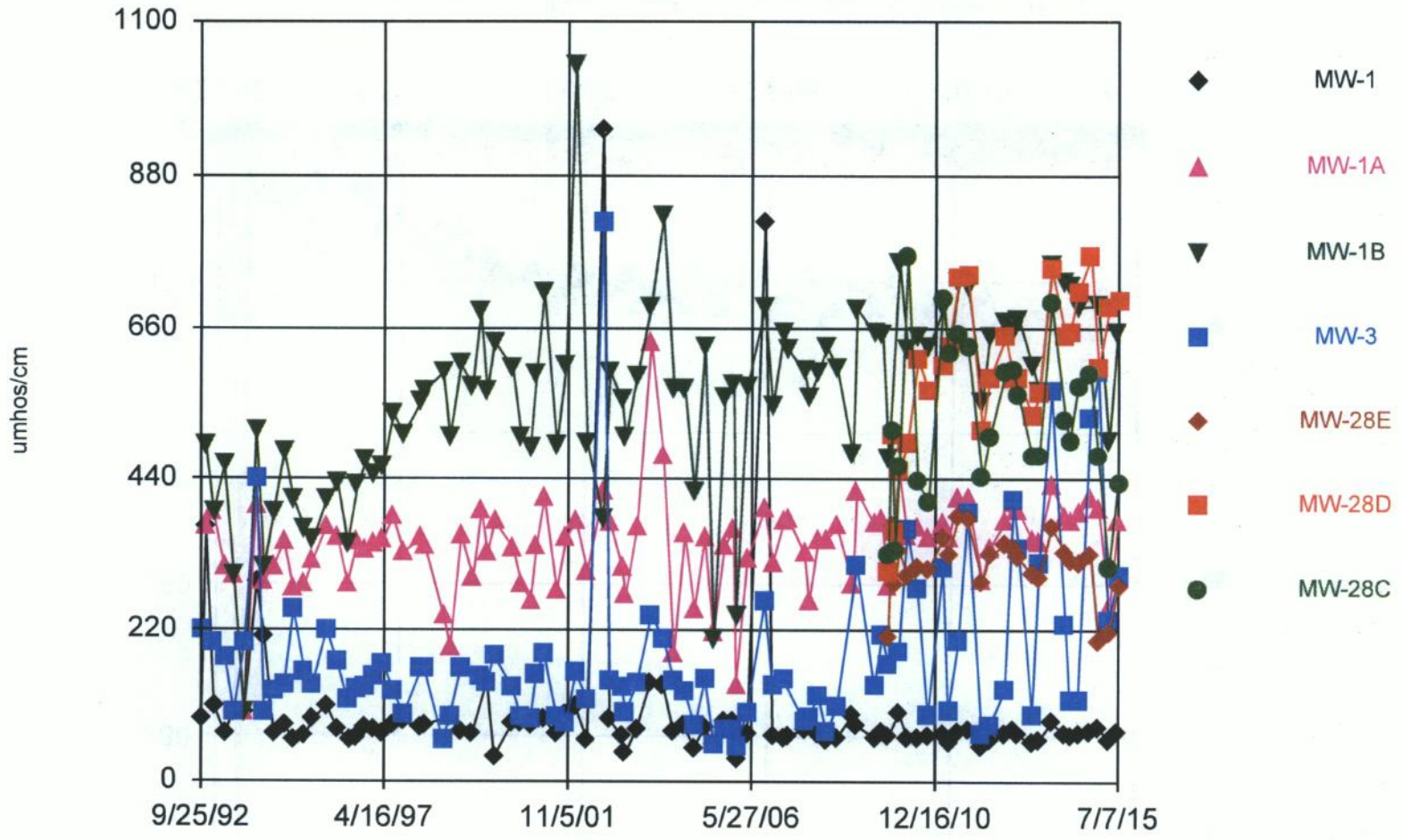


Constituent: Sodium Total Analysis Run 8/14/2015 9:05 AM

Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting. UG

Time Series

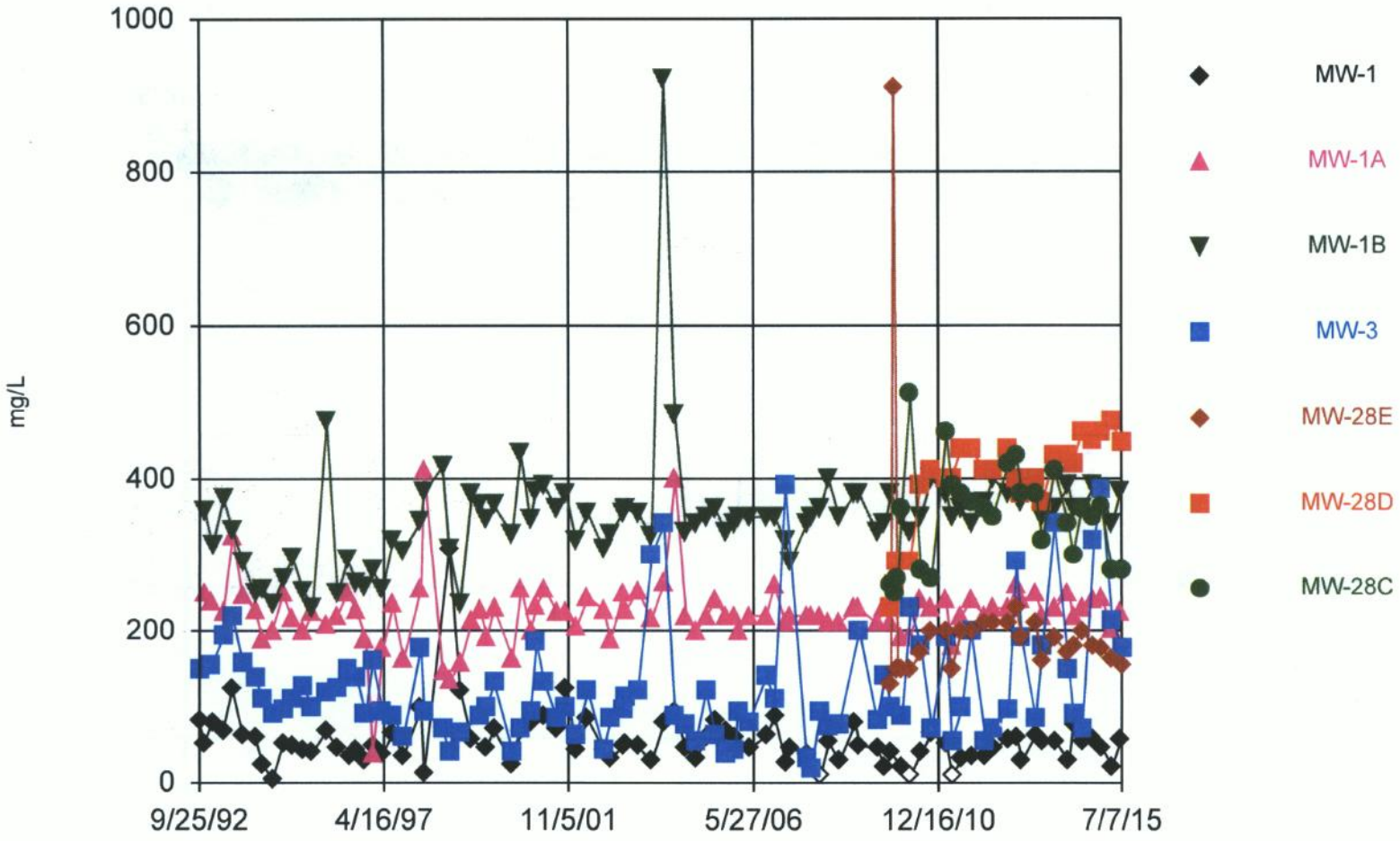


Constituent: Specific Conductance [Field] Analysis Run 8/14/2015 10:25 AM

Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

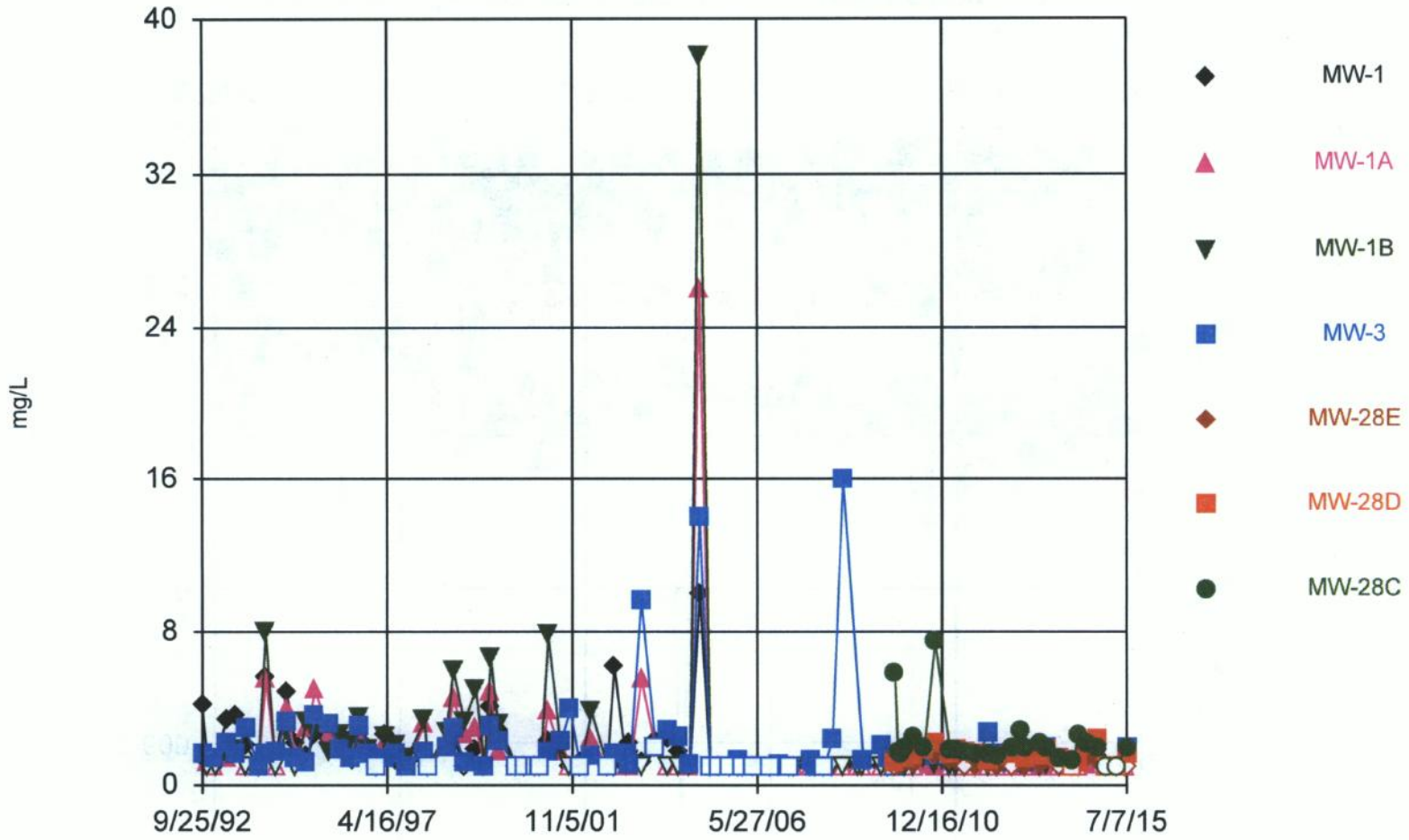


Constituent: Total Dissolved Solids [TDS] Analysis Run 8/14/2015 9:05 AM

Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series

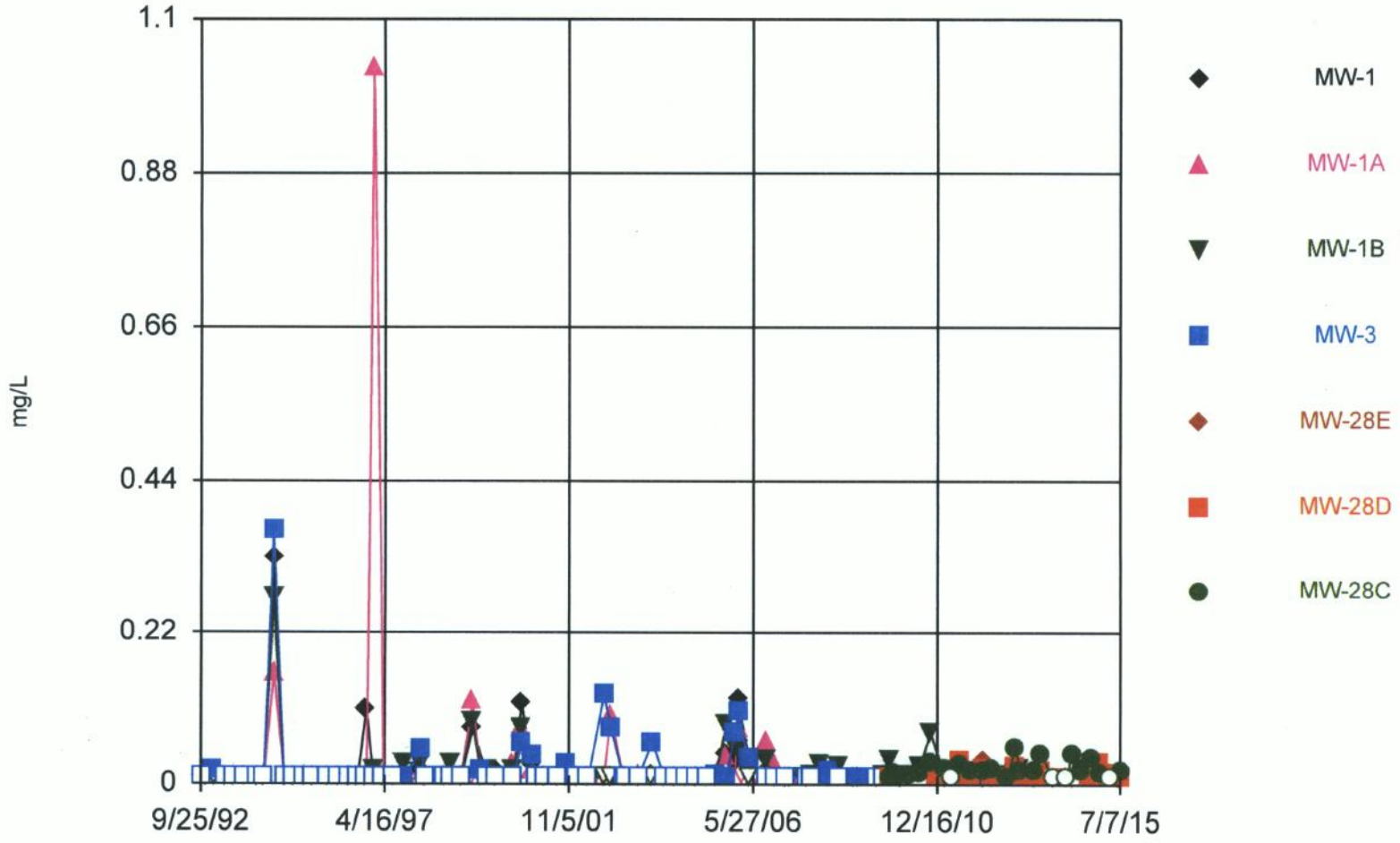


Constituent: Total Organic Carbon [TOC] Analysis Run 8/14/2015 9:05 AM

Green Valley Client: RSI Data: GREENVALLEY

Sanitas™ v.9.5.17 Sanitas software licensed to Jett Environmental Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Total Organic Halides Analysis Run 8/14/2015 9:05 AM

Green Valley Client: RSI Data: GREENVALLEY

Time Series

Constituent: Chemical Oxygen Demand [COD] (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
9/25/1992	43.8			17.2			
11/9/1992	1.9	1.9	5.71				
1/18/1993		<2		<2			
1/19/1993	<2		<2				
4/26/1993	<2	<2	<2	<2			
7/19/1993	3.92	<2	7.84				
7/20/1993				11.9			
10/19/1993	15.7	19.6	9.8				
10/20/1993				<2			
2/8/1994	14	<2	8				
2/9/1994				<2			
4/18/1994	13.3	5.33	5.33				
4/20/1994				5.33			
7/13/1994				10.7			
7/14/1994	13.3	5.33	5.33				
10/18/1994				24.3			
10/19/1994	32.4	8.11	10.8				
1/11/1995	12.3	7.41	7.41	9.88			
4/25/1995				8			
4/26/1995	7.79	10.4	13.2				
7/10/1995				12.2			
7/11/1995	16.9	12	4.82				
11/14/1995	11.9	9.52		9.52			
11/15/1995			11.9				
2/19/1996				8.89			
2/20/1996	2.22	<2	4.44				
5/21/1996		5.48		2.74			
5/22/1996			11				
6/5/1996	5.13						
8/19/1996	7.89	<5	5.26	7.89			
11/5/1996	46	47	41	47			
1/7/1997	15.2	15.2	15.2	20.3			
4/8/1997	7	<5	<5	<5			
7/8/1997	9	7	10	6			
10/9/1997	<5	5	<5	8			
3/19/1998	<5	<5	6	<5			
4/14/1998	5	<5	11	<5			
9/30/1998		6	<5	<5			
12/1/1998	22	10	14	<5			
3/9/1999	9	<5	6	<5			
6/22/1999	5	<5	<5				
9/7/1999		12	<5	10			
11/2/1999	<5	<5	<5	<5			
1/5/2000	<5	<5	<5	<5			
6/19/2000				<5			
6/20/2000	<5	<5	<5				
9/6/2000	27.3	25.3	27.4	29			
11/28/2000	<5	<5	<5	<5			
1/22/2001	<5	<5	<5	<5			
4/2/2001	<5	<5	<5	<5			
7/26/2001	10.1	<5	<5	<5			
10/18/2001	<5	<5	<5				

Time Series

Constituent: Chemical Oxygen Demand [COD] (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
10/19/2001				<5			
1/14/2002	<5	<5	<5				
1/15/2002				<5			
4/29/2002	<5	<5	<5				
4/30/2002				<5			
9/18/2002	<10	<10	<10	<10			
11/19/2002	<10	<10	<10	<10			
3/10/2003	<10	<10	<10	<10			
4/10/2003	<10	<10	<10	<10			
7/22/2003	<10	<10	<10	<10			
11/25/2003	<10	<10	<10				
11/26/2003				<10			
3/16/2004				<10			
3/17/2004	<10	<10	<10				
6/23/2004	<10	<10	<10	<10			
9/29/2004	24	11	<10	12			
12/27/2004	<10	<10	<10	<10			
3/30/2005	13	13	23	15			
6/20/2005	<10	<10	<10	<10			
9/27/2005	<10	<10	<10	<10			
12/16/2005	<10	<10	<10	<10			
1/9/2006	<10	<10	<10	<10			
4/19/2006	<10	29	<10	<10			
9/24/2006	<10	<10	<10	<10			
12/5/2006	14	<10	14	14			
3/14/2007				11			
3/16/2007	<10	<10	<10				
4/23/2007	<10	<10	<10				
9/19/2007	<10	<10	16	<10			
10/30/2007	<10	<10	<10	<10			
1/23/2008	15	14	21	<10			
4/7/2008	11	<10	<10				
4/8/2008				<10			
7/9/2008	<10	<10	<10	<10			
12/2/2008	<10	<10	<10				
1/7/2009	<10	<10	<10	<10			
6/15/2009	<10	11	<10	<10			
8/26/2009	10	10	<10	<10			
10/20/2009	<10	<10	12	11	<10	<10	21
11/16/2009					<10	<10	11
12/21/2009					<10	<10	17
1/25/2010	<10	<10	<10	<10	<10	<10	<10
4/13/2010	<10	<10	<10	<10	<10	<10	11
7/14/2010				<10	<10	<10	<10
7/15/2010	<10	<10	10				
10/19/2010	<10	<10	<10	<10	<10	11	27
3/3/2011	<10	<10	<10	<10	<10	<10	<10
4/19/2011	<10	<10	<10	<10	<10	12	<10
7/20/2011	<10	<10	<10	<10	<10	<10	<10
10/11/2011				11	<10	<10	<10
10/12/2011	16	<10	<10				
2/20/2012	<10	<10	<10	28	<10	<10	<10

Time Series

Constituent: Chemical Oxygen Demand [COD] (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
4/23/2012	<10	<10	<10	<10	<10	<10	<10
9/10/2012	<10	<10	<10	<10			
9/14/2012					<10	<10	<10
11/26/2012	<10	<10	<10	<10	<10	<10	<10
1/10/2013				<10	<10	<10	<10
1/11/2013	<10	<10	<10				
5/15/2013	<10	<10	<10	<10	<10	<10	<10
7/17/2013	<10	<10	<10	<10	<10	<10	<10
11/6/2013	<10	<10	<10	<10	<10	<10	<10
3/12/2014	<10	<10	<10	<10	<10	<10	<10
4/21/2014	<10	<10	<10	<10	<10	<10	<10
7/8/2014	<10	<10	<10	<10	<10	<10	<10
10/29/2014	<10	<10	<10	<10	<10	<10	<10
1/7/2015	<10	<10	<10	<10	<10	<10	<10
4/13/2015				<10	<10	<10	<10
4/14/2015	<10	<10	<10				
7/2/2015	<10	<10	<10				
7/7/2015				<10	<10	<10	<10

Time Series

Constituent: Chloride (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
9/25/1992	1.29			1.98			
11/9/1992	2.61	2.61	13.4				
1/18/1993		3.2		1.47			
1/19/1993	1.39		15.9				
4/26/1993	1.71	4.34	45.3	1.53			
7/19/1993	1.32	2.89	8.65				
7/20/1993				1.81			
10/19/1993	1.31	3.18	9.91				
10/20/1993				1.3			
2/8/1994	2.14	3.44	11.8				
2/9/1994				1.45			
4/18/1994	1.13	2.51	9.25				
4/20/1994				<1			
7/13/1994				1.22			
7/14/1994	1.01	3.83	16.3				
10/18/1994				1.3			
10/19/1994	1.08	2.88	13.4				
1/11/1995	1.17	3.09	23.2	1.3			
4/25/1995				1.5			
4/26/1995	1.18	3.36	6.23				
7/10/1995				1.59			
7/11/1995	1.59	3.36	8.51				
11/14/1995	<1	2.94		1.18			
11/15/1995			16.7				
2/19/1996				<1			
2/20/1996	<1	2.99	9.61				
5/21/1996		3.13		1.02			
5/22/1996			9.02				
6/5/1996	<1						
8/19/1996	1.1	3.79	9.98	1.04			
11/5/1996	<1	2.36	13.9	<1			
1/7/1997	1	3.7	18.1	1.1			
4/8/1997	<1	3.1	19.2	1			
7/8/1997	1.1	3.7	19.5	1.1			
10/9/1997	<1	2.2	17.6	<1			
3/19/1998	<1	3.4	26.4	<1			
4/14/1998	<1	3.1	34.2	<1			
9/30/1998		3.1	33.5	1.2			
12/1/1998	1.2	2.49	34	<1			
3/9/1999	1.1	3.1	52.4	1.1			
6/22/1999	1.7	3	39.4				
9/7/1999		2.2	32.8	1.2			
11/2/1999	1.1	2.5	37.1	<1			
1/5/2000	<1	2.6	37.9	1.1			
6/19/2000				<1			
6/20/2000	1.1	2.3	46.7				
9/6/2000	1.2	2.7	26.4	1			
11/28/2000	1.1	2.3	38.1	1.2			
1/22/2001	1.4	2.8	46.5	<1			
4/2/2001	<1	2.8	42.2	1.1			
7/26/2001	1.1	2.8	38.6	1.2			
10/18/2001	1.1	2.5	37.6				

Time Series

Constituent: Chloride (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
10/19/2001				1.1			
1/14/2002	1	2.8	38.5				
1/15/2002				<1			
4/29/2002	1.2	3.5	36.7				
4/30/2002				1.1			
9/18/2002	1.2	2.7	39	1.2			
11/19/2002	1.3	3.2	40.9	<1			
3/10/2003	10.5	2.16	49.9	1.27			
4/10/2003	1.36	3.17	49.6	1.28			
7/22/2003	1.29	3.09	35.7	1.03			
11/25/2003	1.55	3.85	46.2				
11/26/2003				1.5			
3/16/2004				1.2			
3/17/2004	1.1	3.3	43				
6/23/2004	1.2	3.3	37	0.96			
9/29/2004	1.1	3.5	37	1			
12/27/2004	<1	3.3	42	<1			
3/30/2005	1	3.3	43	1.2			
6/20/2005	1.2	3.2	37	1.3			
9/27/2005	1.6	3.7	37	1.2			
12/16/2005	1.5	3	39	1.5			
1/9/2006	1.2	3.2	41	4.5			
4/19/2006	1.2	2.9	40	2.7			
9/24/2006	1.1	3.3	45	5.5			
12/5/2006	1.1	3.2	46	2.9			
3/14/2007				2.7			
3/16/2007	1.2	3.3	49				
4/23/2007	1.2	3.2	34				
9/19/2007	1.7	3.2	39	3.2			
10/30/2007	1.7	3.2	43	2.8			
1/23/2008	1.8	3.4	47	2.9			
4/7/2008	1.6	3.3	45				
4/8/2008				1.4			
7/9/2008	1.7	3.2	44	2.3			
12/2/2008	2	3.3	46				
1/7/2009	2	3.8	48	5.7			
6/15/2009	1.3	3.2	44	1.9			
8/26/2009	1.6	3.4	44	2.7			
10/20/2009	1.6	3.6	47	2.9	1.7	3.3	5.8
11/16/2009					2	4	6.3
12/21/2009					2.1	5	7.9
1/25/2010	1.7	3.4	48	2.4	2.3	5.8	9.3
4/13/2010	1.2	3	42	5.6	1.9	7.2	13
7/14/2010				7.3	2.1	7.6	12
7/15/2010	1.6	3.3	47				
10/19/2010	1.3	3.2	46	2.6	2.1	7.6	24
3/3/2011	1.8	3.2	47	15	2.3	20	38
4/19/2011	1.4	3.4	36	3.4	2.3	23	27
7/20/2011	1.1	3.1	39	5.7	2.1	23	24
10/11/2011				14	2.1	22	23
10/12/2011	1.3	3.3	39				
2/20/2012	1.2	3.4	41	1.9	2.2	22	15

Time Series

Constituent: Chloride (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
4/23/2012	1.2	3.3	40	1.9	2.1	20	16
9/10/2012	1.3	3.6	38	3.7			
9/14/2012					2.1	19	19
11/26/2012	1.3	3.9	39	12	1.9	18	19
1/10/2013				9.2	2.1	18	16
1/11/2013	1.5	3.8	42				
5/15/2013	1.4	3.6	38	2	2	17	13
7/17/2013	1.2	3.5	38	8.7	1.7	16	15
11/6/2013	1.4	3.5	38	14	1.8	17	18
3/12/2014	1.5	3.5	45	4.5	1.9	18	12
4/21/2014	1.4	3.4	36	2.9	1.9	19	12
7/8/2014	1.2	3.3	34	2.2	1.6	22	21
10/29/2014	1.3	3.7	38	28	1.7	25	27
1/7/2015	1.4	3.6	37.5	28.7	1.7	26.4	22.6
4/13/2015				11.6	1.9	29.5	14.9
4/14/2015	1.2	3.3	35				
7/2/2015	1.4	3.1	35.1				
7/7/2015				12.2	1.6	29.7	17.5

Time Series

Constituent: Iron Total (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
9/25/1992	5.59			7.74			
11/9/1992	1.16	1.16	0.64				
1/18/1993		1.27		3.71			
1/19/1993	2.41		4.34				
4/26/1993	2.22	1.27	10.7	2.32			
7/19/1993	8.55	7.79	0.49				
7/20/1993				3.65			
10/19/1993	10.3	1.24	0.1				
10/20/1993				8.25			
2/8/1994	1.62	1.19	0.32				
2/9/1994				0.71			
4/18/1994	5.66	10.9	0.38				
4/20/1994				1.02			
7/13/1994				1.42			
7/14/1994	17.2	1.16	0.37				
10/18/1994				57.3			
10/19/1994	9.02	0.95	0.47				
1/11/1995	22.7	1.05	0.36	1.92			
4/25/1995				0.68			
4/26/1995	0.46	3.81	0.56				
7/10/1995				0.879			
7/11/1995	0.7	0.871	0.354				
11/14/1995	1.04	0.51		1.12			
11/15/1995			0.87				
2/19/1996				2.77			
2/20/1996	0.47	0.89	0.37				
5/21/1996		0.85		1.72			
5/22/1996			0.7				
6/5/1996	0.6						
8/19/1996	0.44	1.32	0.47	0.22			
11/5/1996	1.08	3.85	0.27	0.37			
1/7/1997	0.91	3.24	0.33	0.31			
4/8/1997	1.01	4.2	0.07	0.25			
7/8/1997	1.1	8.23	0.05	0.47			
10/9/1997	0.35	4.69	0.19	0.67			
3/19/1998	0.27	1.84	0.18	0.34			
4/14/1998	0.16	2.53	0.1	0.29			
9/30/1998		2.42	0.25	0.18			
12/1/1998	0.45	2.49	0.21	0.37			
3/9/1999	4.36	9.03	0.21	0.98			
6/22/1999	0.76	5.75	0.05				
9/7/1999		4.97	0.19	0.39			
11/2/1999	0.43	1.59	0.15	0.3			
1/5/2000	0.98	6.13	0.359	0.5			
6/19/2000				0.25			
6/20/2000	1.62	13.4	0.6				
9/6/2000	0.23	2.58	0.26	0.17			
11/28/2000	0.14	2.36	0.62	0.43			
1/22/2001	0.96	2.62	0.36	0.34			
4/2/2001	0.75	4.33	0.2	0.06			
7/26/2001	0.58	3.99	0.07	0.14			
10/18/2001	0.82	3.93	0.19				

Time Series

Constituent: Iron Total (mg/L) Analysis Run 8/14/2015 9:06 AM
Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
10/19/2001				0.17			
1/14/2002	0.43	3.15	0.16				
1/15/2002				0.07			
4/29/2002	1.44	4.28	0.02				
4/30/2002				0.16			
9/18/2002	0.144	2.63	0.2	0.113			
11/19/2002	0.354	3.64	0.211	0.185			
3/10/2003	1.38	3.97	<0.02	<0.02			
4/10/2003	0.85	4.1	0.146	0.305			
7/22/2003	0.37	2.53	<0.02	0.164			
11/25/2003	0.41	1.82	0.386				
11/26/2003				0.109			
3/16/2004				0.28			
3/17/2004	0.08	2.4	0.23				
6/23/2004	0.65	1.4	0.059	0.17			
9/29/2004	0.36	2.1	0.28	<0.02			
12/27/2004	0.87	1.6	0.27	0.042			
3/30/2005	0.32	1.3	0.21	<0.02			
6/20/2005	0.12	1.3	0.027	0.26			
9/27/2005	0.11	3.2	0.29	1.1			
12/16/2005	0.22	3.6	0.36	17			
1/9/2006	0.46	2.4	0.26	1			
4/19/2006	0.5	5.5	0.02	8.6			
9/24/2006	0.15	3.4	0.36	3			
12/5/2006	0.23	0.97	0.34	9.1			
3/14/2007				11			
3/16/2007	0.18	0.95	0.046				
4/23/2007	0.56	1.6	<0.02				
9/19/2007	0.24	3.4	0.44	15			
10/30/2007	0.13	1.5	0.22	14			
1/23/2008	0.19	4.5	0.44	5			
4/7/2008	0.45	1.4	0.37				
4/8/2008				37			
7/9/2008	0.23	1.7	0.042	20			
12/2/2008	1.5	1.5	0.58				
1/7/2009	1	2	0.47	7.7			
6/15/2009	0.16	1.6	<0.02	19			
8/26/2009	0.33	1.1	0.26	15			
10/20/2009	0.15	1.1	0.29	7.4	0.27	0.26	72
11/16/2009					0.2	0.23	3
12/21/2009					0.27	0.08	1.8
1/25/2010	0.22	1.9	0.52	21	0.1	0.18	1.2
4/13/2010	0.16	0.78	0.028	13	0.082	0.35	1.8
7/14/2010				10	0.16	15	2.4
7/15/2010	0.32	3.1	0.13				
10/19/2010	0.14	1.8	0.5	8	1.4	18	27
3/3/2011	0.53	1.2	0.45	6.5	0.13	2.7	1.7
4/19/2011	0.21	2.3	0.036	13	0.31	2.4	1.5
7/20/2011	0.21	5	0.21	19	0.08	20	1.8
10/11/2011				22	0.1	22	2.4
10/12/2011	0.21	1.9	0.71				
2/20/2012	0.24	1.8	0.54	58	0.071	1.6	11

Time Series

Constituent: Iron Total (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
4/23/2012	0.38	0.46	0.23	16	0.054	5.2	3.8
9/10/2012	0.46	2.6	0.84	11			
9/14/2012					<0.02	24	2.7
11/26/2012	0.23	1.4	0.67	12	1.4	3.6	20
1/10/2013				8.6	0.064	2.7	12
1/11/2013	0.07	0.45	0.57				
5/15/2013	1.2	1.3	0.033	11	0.092	1.2	20
7/17/2013	0.32	1.4	0.035	14	0.14	6	7.6
11/6/2013	0.27	1.2	0.41	14	0.17	21	3
3/12/2014	0.68	0.68	0.41	36	0.031	2.4	3.5
4/21/2014	1.4	1	0.13	17	0.17	1.3	160
7/8/2014	0.13	1.9	0.028	11	0.09	15	6.2
10/29/2014	0.22	2	0.4	9.5	0.056	22	0.56
1/7/2015	0.55	18.1	0.44	9.3	2.2	11.8	4.8
4/13/2015				15.4	0.23	1.9	3.7
4/14/2015	0.18	1.6	0.051				
7/2/2015	0.15	1	0.074				
7/7/2015				9.9	0.79	32.2	12.1

Time Series

Constituent: pH [Field] (su) Analysis Run 8/14/2015 9:06 AM
Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
9/25/1992	7.2			6.4			
11/9/1992	7	7	7.6				
1/18/1993		7.1		6.9			
1/19/1993	7.4		7.4				
4/26/1993	7.7	7.1	7.3	5.6			
7/19/1993	6.3	7.9	8				
7/20/1993				5.3			
10/19/1993	7.4	7.4	7.4				
10/20/1993				5.6			
2/8/1994	8.4	8	7.4				
2/9/1994				7.6			
4/18/1994	7.1	6.9	7.1				
4/20/1994				7.1			
7/13/1994				6.1			
7/14/1994	8.1	8	8.1				
10/18/1994				5.7			
10/19/1994	6.5	7.5	7.5				
1/11/1995	6.155 (D)	6.275 (D)	6.335 (D)	5.52 (D)			
4/25/1995				6.28			
4/26/1995	6.93	7.45	7.73				
7/10/1995				7.1			
7/11/1995	7.2	7.8	8				
11/14/1995	8.1	8		7.6			
11/15/1995			8.2				
2/19/1996				5.8			
2/20/1996	7.5	7.3	7.3				
5/21/1996		7.2		6			
5/22/1996			7.5				
6/5/1996	7.9						
8/19/1996	6.32	7.09	7.4	4.96			
11/5/1996	5.99	6.96	7.71	5.09			
1/7/1997	5.9	6.52	7.28	5.07			
4/8/1997	6.05	7.07	7.5	5.03			
7/8/1997	6.03	7.4	8.2	6.03			
10/9/1997	6.9	7.4	8.2	7.4			
3/19/1998	7.8	7.1	8	6.6			
4/14/1998	7	7.3	8	6.7			
9/30/1998		7.3	8.3	7.2			
12/1/1998	7.54	8.45	8.5	6.2			
3/9/1999	6.6	7.42	9.75	6.5			
6/22/1999	6.8	7.1	7.7				
9/7/1999		7.3	7.5	5			
11/2/1999	7.1	6.95	8.1	6.39			
1/5/2000	5.69	6.9	7.89	5.58			
6/19/2000				6.35			
6/20/2000	6.39	6.95	7.84				
9/6/2000	6.08	6.71	7.7	6.32			
11/28/2000	7.61	6.87	7.51	7.56			
1/22/2001	6.18	7.03	8.11	4.96			
4/2/2001	7.12	6.8	8.06	5.61			
7/26/2001	7.57	6.91	7.29	7.35			
10/18/2001	7.03	7.6	8.4				

Time Series

Constituent: pH [Field] (su) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
10/19/2001				7.1			
1/14/2002	7.07	7.41	8.24				
1/15/2002				6.58			
4/29/2002	6.67	7.08	7.91				
4/30/2002				4.77			
9/18/2002	5.73	6.77	7.94	5.49			
11/19/2002	7.6	7.04	7.59	7.44			
3/10/2003	8.04	7.29	8.1	8.24			
4/10/2003	7.2	7.14	8.01				
7/22/2003	5.47	6.72	7.6	5.22			
11/25/2003	6.5	7.3	8.3				
11/26/2003				4.3			
3/16/2004				5.58			
3/17/2004	7.39	6.96	8.03				
6/23/2004	5.61	7.08	8	5.09			
9/29/2004	5.85	7.24	7.99	5.4			
12/27/2004	6.62	7.18	7.98	5.6			
3/30/2005	7.54	7.29	8.35	7.39			
6/20/2005	7.53	7.07	7.4	6.78			
9/27/2005	6.47	7.22	8.16	7.11			
12/16/2005	7.24	7.4	7.93	7.74			
1/9/2006	6.27	6.57	7.68	5.56			
4/19/2006	7.26	6.94	7.43	7.1			
9/24/2006	5.6	6.85	7.63	5.3			
12/5/2006	5.64	6.62	7.39	5.52			
3/14/2007				6.38			
3/16/2007	6.24	6.49	7.38				
4/23/2007	5.53	6.78	7.3				
9/19/2007	6.38	7.58	8.08	7.15			
10/30/2007	5.42	5.84	6.34	6.44			
1/23/2008	6.05	6.96	7.15	6.15			
4/7/2008	5.37	7.35	7.35				
4/8/2008				6.02			
7/9/2008	7.46	7.57	8.13	7.71			
12/2/2008	6.46	6.65	6.77				
1/7/2009	5.47	6.8	7.28	5.73			
6/15/2009	5.61	6.94	7.36	6.07			
8/26/2009	5.46	6.55	7.22	5.98			
10/20/2009	6.61	7.43	8	6.31	6.49	6.11	6.04
11/16/2009					6.79	5.55	5.6
12/21/2009					6.29	5.99	5.78
1/25/2010	5.84	7.14	7.21	5.8	6.31	5.9	5.87
4/13/2010	5.72	7.1	7.47	5.71	6.43	5.77	5.87
7/14/2010				6.61	6.78	6.4	6.12
7/15/2010	6.21	7.46	7.84				
10/19/2010	5.58	6.8	7.36	6.41	6.24	6	5.35
3/3/2011	6.57	7.45	8.01	6.28	6.82	6.12	6.01
4/19/2011	5.15	6.28	6.74	5.12	4.76	4.46	4.1
7/20/2011	5.9	7.09	7.8	6.34	6.65	6.18	5.54
10/11/2011				4.91	5.29	5.16	4.67
10/12/2011	5.24	6.3	7.13				
2/20/2012	6.16	7.17	7.81	6.49	6.61	5.7	5.53

Time Series

Constituent: pH [Field] (su) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
4/23/2012	5.55	6.81	7.15	6.11	6.22	5.5	5.19
9/10/2012	5.25	6.74	7.46	5.96			
9/14/2012					6.12	5.8	5.08
11/26/2012	5.61	6.37	7.03	5.57	6.16	5.33	5.01
1/10/2013				5.77	6.47	5.62	5.43
1/11/2013	7.02	6.98	7.38				
5/15/2013	4.04	6.66	7.46	4.77	5.44	5.22	4.8
7/17/2013	4.63	5.53	6.16	6.11	6.5	6.69	6.37
11/6/2013	5.6	6.43	6.92	5.68	6.57	5.94	5.28
3/12/2014	6.4	7.24	7.81	6.22	6.46	5.48	5.27
4/21/2014	5.8	6.97	7.44	6.2	6.18	5.02	4.92
7/8/2014	5.38	6.87	7.31	6.13	6.29	5.83	5.22
10/29/2014	5.16	5.88		5.15	5.66	5.14	4.57
1/7/2015	7.39	7.53	7.99	5.89	6.94	5.86	5.56
4/13/2015				4.59	6.07	6.25	4.65
4/14/2015	7.15	6.99	7.61				
7/2/2015	5.84	6.95	7.45				
7/7/2015				5.7	6.34	5.71	5

Time Series

Constituent: Sodium Total (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
9/25/1992	3.6			3.44			
11/9/1992	26.4	26.4	144				
1/18/1993		21.2		3.06			
1/19/1993	1.96		95				
4/26/1993	131	365	595	336			
7/19/1993	4.43	26.2	42.8				
7/20/1993				3.19			
10/19/1993	1.53	21.4	52.5				
10/20/1993				4.38			
2/8/1994	1.19	22.1	45.6				
2/9/1994				2.03			
4/18/1994	2	25.9	53				
4/20/1994				2.55			
7/13/1994				4.62			
7/14/1994	2.85	23.9	51.2				
10/18/1994				2.8			
10/19/1994	2.06	21.6	45.9				
1/11/1995	1.83	21.1	92.5	1.91			
4/25/1995				1.95			
4/26/1995	1.16	20.2	34.7				
7/10/1995				2.51			
7/11/1995	1.63	19.5	92.5				
11/14/1995	1.34	22.8		2.29			
11/15/1995			94.5				
2/19/1996				1.58			
2/20/1996	1.1	19.3	42.8				
5/21/1996		22.5		2.5			
5/22/1996			44.5				
6/5/1996	3.49						
8/19/1996	1.43	15	54.4	2.25			
11/5/1996	1.52	16.2	76.2	2.28			
1/7/1997	1.95	26.2	85	1.92			
4/8/1997	1.1	15	67.5	1.95			
7/8/1997	0.93	21.3	73.8	1.03			
10/9/1997	1.91	21.3	87.5	2.91			
3/19/1998	1.15	13	72.5	1.5			
4/14/1998	1.32	20.6	102	2.25			
9/30/1998		9.75	76.3	1.28			
12/1/1998	2.48	16.4	98.1	2.28			
3/9/1999	1.4	18.1	130	2			
6/22/1999	1.3	15.7	97				
9/7/1999		18.8	110	2.39			
11/2/1999	3.13	18.3	110	2.27			
1/5/2000	2.95	21.7	115	2.63			
6/19/2000				3.98			
6/20/2000	4.03	21.4	116				
9/6/2000	3.93	21.9	112	3.66			
11/28/2000	4.46	22.1	120	3.71			
1/22/2001	4.25	23.3	138	3.18			
4/2/2001	3.01	21.1	128	2.78			
7/26/2001	2.76	18.4	103	2.91			
10/18/2001	2.68	19.4	117				

Time Series

Constituent: Sodium Total (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
10/19/2001				2.95			
1/14/2002	4.44	20.1	118				
1/15/2002				3.37			
4/29/2002	2.78	23.7	124				
4/30/2002				3.05			
9/18/2002	2.79	20.8	120	3.16			
11/19/2002	4.13	23.2	113	3.24			
3/10/2003	2.6	19.4	136	2.31			
4/10/2003	2.38	19.8	123	2.86			
7/22/2003	2.95	21.7	125	3.44			
11/25/2003	3	23	129				
11/26/2003				3.26			
3/16/2004				2.4			
3/17/2004	2	22	140				
6/23/2004	1.8	22	110	2.7			
9/29/2004	2.3	23	120	2.6			
12/27/2004	2	24	130	2.6			
3/30/2005	1.8	22	140	9.9			
6/20/2005	1.7	23	120	2.7			
9/27/2005	2.3	22	120	2.7			
12/16/2005	2.9	21	130	3.1			
1/9/2006	2.7	24	130	3.8			
4/19/2006	2	23	110	4.8			
9/24/2006	2.3	22	130	9			
12/5/2006	2.2	22	130	4.6			
3/14/2007				3.6			
3/16/2007	1.4	20	130				
4/23/2007	1.4	20	110				
9/19/2007	2.1	25	150	3			
10/30/2007	2.3	23	120	2.9			
1/23/2008	2.1	24	140	5.1			
4/7/2008	1.5	22	140				
4/8/2008				3			
7/9/2008	1.3	19	120	3.1			
12/2/2008	4.3	22	130				
1/7/2009	2.1	25	140	9			
6/15/2009	1.3	19	120	3.5			
8/26/2009	1.4	21	130	4.2			
10/20/2009	1.6	24	140	4.7	7.4	28	9.1
11/16/2009					10	21	8.4
12/21/2009					12	20	9.9
1/25/2010	1.6	22	140	3.7	13	20	12
4/13/2010	1.4	20	140	6	14	19	16
7/14/2010				5.5	16	23	14
7/15/2010	1.5	21	140				
10/19/2010	1.9	22	150	3.3	15	23	14
3/3/2011	1.6	22	150	9.8	18	28	24
4/19/2011	1.5	19	110	4.2	16	34	25
7/20/2011	1.4	20	140	5.3	18	29	20
10/11/2011				9.8	17	27	23
10/12/2011	1.5	21	130				
2/20/2012	1.6	22	150	3.6	21	34	21

Time Series

Constituent: Sodium Total (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
4/23/2012	1.7	21	150	3.4	20	34	20
9/10/2012	2	26	160	4.6			
9/14/2012					16	32	19
11/26/2012	2.5	27	150	10	18	32	20
1/10/2013				8.9	17	32	18
1/11/2013	2	24	150				
5/15/2013	1.5	25	150	3.2	16	28	15
7/17/2013	1.5	21	140	6.9	14	8.9	14
11/6/2013	1.8	20	140	11	14	23	18
3/12/2014	1.8	23	160	6.2	15	30	16
4/21/2014	1.8	22	160	3.9	14	33	14
7/8/2014	1.4	20	130	3.1	11	29	15
10/29/2014	1.7	23	120	15	11	30	18
1/7/2015	2.4	22.4	130	17.3	12	28.4	17.2
4/13/2015				9.2	11.2	29.1	13.3
4/14/2015	1.7	19.6	120				
7/2/2015	2	19.8	125				
7/7/2015				7.8	10.3	27.8	14.2

Time Series

Constituent: Specific Conductance [Field] (umhos/cm) Analysis Run 8/14/2015 10:26 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
9/25/1992	90			220			
11/9/1992	370	370	490				
1/18/1993		390		200			
1/19/1993	110		390				
4/26/1993	70	310	460	180			
7/19/1993	100	300	300				
7/20/1993				100			
10/19/1993	100	100	100				
10/20/1993				200			
2/8/1994	290	400	510				
2/9/1994				440			
4/18/1994	210	290	310				
4/20/1994				100			
7/13/1994				130			
7/14/1994	70	310	390				
10/18/1994				138			
10/19/1994	80	348	480				
1/11/1995	60	280	410	250			
4/25/1995				158			
4/26/1995	65	285	365				
7/10/1995				140			
7/11/1995	90	320	350				
11/14/1995	110	370		220			
11/15/1995			410				
2/19/1996				172			
2/20/1996	75	355	434				
5/21/1996		287		117			
5/22/1996			346				
6/5/1996	60.3						
8/19/1996	64.3	347	429	133			
11/5/1996	77	337	466	135			
1/7/1997	74	345	445	151			
4/8/1997	70	351	458	170			
7/8/1997	81	384	535	131			
10/9/1997	86	333	505	96			
3/19/1998	78	353	554	164			
4/14/1998	82	342	569	163			
9/30/1998		242	595	60			
12/1/1998	93	195	501	93			
3/9/1999	71	358	607	164			
6/22/1999	70	295	576				
9/7/1999		394	685	152			
11/2/1999	145	332	567	142			
1/5/2000	36	377	640	183			
6/19/2000				135			
6/20/2000	84	339	601				
9/6/2000	84	287	502	93			
11/28/2000	81	263	486	89			
1/22/2001	86	343	593	156			
4/2/2001	90	412	713	185			
7/26/2001	68	278	490	94			
10/18/2001	96.6	353.3	605				

Time Series

Constituent: Specific Conductance [Field] (umhos/cm) Analysis Run 8/14/2015 10:26 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
10/19/2001				83.3			
1/14/2002	108	379	1038				
1/15/2002				158			
4/29/2002	60	305	492				
4/30/2002				118			
9/18/2002	945	421	380	815			
11/19/2002	90	375	596	146			
3/10/2003	65	311	555	136			
4/10/2003	40	270	500	100			
7/22/2003	76	369	589	142			
11/25/2003	143	640	690				
11/26/2003				242			
3/16/2004				208			
3/17/2004	140	474	823				
6/23/2004	73	186	570	145			
9/29/2004	80	360	570	130			
12/27/2004	49	250	421	80			
3/30/2005	78.7	353	633	148			
6/20/2005	52.1	215	208	54			
9/27/2005	87.1	341	560	75.7			
12/16/2005	88	366	577	74			
1/9/2006	33	140	239	52			
4/19/2006	69	322	576	101			
9/24/2006	814	397	691	262			
12/5/2006	66	318	547	138			
3/14/2007				148			
3/16/2007	63	377	655				
4/23/2007	67	382	629				
9/19/2007	75	331	598	87			
10/30/2007	88	261	560	94			
1/23/2008	70	352	595	125			
4/7/2008	61	351	634				
4/8/2008				72			
7/9/2008	63	371	602	108			
12/2/2008	98	286	476				
1/7/2009	82	422	688	315			
6/15/2009	64	374	653	138			
8/26/2009	71	381	650	212			
10/20/2009	65	282	471	171	210	306	329
11/16/2009					373	503	510
12/21/2009					287	364	337
1/25/2010	101	452	754	188	336	452	458
4/13/2010	63	358	629	365	300	491	764
7/14/2010				279	312	615	436
7/15/2010	64	370	649				
10/19/2010	65	355	633	95	308	568	406
3/3/2011	69	376	691	312	355	605	703
4/19/2011	58	355	619	102	329	634	624
7/20/2011	73	413	727	203	386	734	650
10/11/2011				392	380	737	632
10/12/2011	76	411	721				
2/20/2012	51	294	552	68	291	511	442

Time Series

Constituent: Specific Conductance [Field] (umhos/cm) Analysis Run 8/14/2015 10:26 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
4/23/2012	59	339	649	80	329	588	501
9/10/2012	69	377	669	133			
9/14/2012					345	647	596
11/26/2012	75	405	658	409	338	587	599
1/10/2013				340	326	587	562
1/11/2013	68	394	674				
5/15/2013	56	352	606	98	301	532	473
7/17/2013	61	347	568	316	297	564	474
11/6/2013	86	431	753	567	370	745	698
3/12/2014	70	384	728	229	333	649	526
4/21/2014	67	378	721	117	319	653	494
7/8/2014	70	391	692	117	316	713	575
10/29/2014	72	412		528	329	766	594
1/7/2015	79	397	693	595	205	602	474
4/13/2015				233	217	691	310
4/14/2015	61	252	494				
7/2/2015	71	377	655				
7/7/2015				300	284	701	434

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
9/25/1992	82			149			
11/9/1992	52	248	359				
1/18/1993		239		155			
1/19/1993	80		313				
4/26/1993	69	223	374	193			
7/19/1993	124	325	333				
7/20/1993				218			
10/19/1993	64	247	292				
10/20/1993				158			
2/8/1994	60	228	248				
2/9/1994				138			
4/18/1994	24	188	256				
4/20/1994				110			
7/13/1994				90			
7/14/1994	4	200	234				
10/18/1994				96			
10/19/1994	52	248	270				
1/11/1995	48	216	296	110			
4/25/1995				126			
4/26/1995	42	198	251				
7/10/1995				98			
7/11/1995	40	224	229				
11/14/1995	68	208		117			
11/15/1995			476				
2/19/1996				125			
2/20/1996	46	220	248				
5/21/1996		250		150			
5/22/1996			294				
6/5/1996	34						
8/19/1996	42	226	264	137			
11/5/1996	30	188	258	90			
1/7/1997	48	38	280	160			
4/8/1997	38	176	254	94			
7/8/1997	66	234	318	88			
10/9/1997	34	162	306	60			
3/19/1998	98	256	344	178			
4/14/1998	12	412	382	94			
9/30/1998		147	416	70			
12/1/1998	308	134	307	39			
3/9/1999	122	158	236	66			
6/22/1999	56	214	379				
9/7/1999		226	367	88			
11/2/1999	45	190	348	98			
1/5/2000	71	230	365	132			
6/19/2000				40			
6/20/2000	24	164	328				
9/6/2000	68	256	432	72			
11/28/2000	80	200	348	92			
1/22/2001	88	232	384	184			
4/2/2001	88	256	392	132			
7/26/2001	72	224	360	84			
10/18/2001	124	224	380				

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
10/19/2001				100			
1/14/2002	44	204	320				
1/15/2002				64			
4/29/2002	84	244	356				
4/30/2002				120			
9/18/2002	44	228	308	44			
11/19/2002	32	188	328	84			
3/10/2003	48	248	356	96			
4/10/2003	52	228	360	112			
7/22/2003	48	252	356	120			
11/25/2003	28	216	324				
11/26/2003				300			
3/16/2004				340			
3/17/2004	80	264	920				
6/23/2004	92	400	484	88			
9/29/2004	45	220	330	76			
12/27/2004	31	200	340	54			
3/30/2005	60	220	350	120			
6/20/2005	83	240	360	64			
9/27/2005	67	220	330	37			
12/16/2005	61	220	340	42			
1/9/2006	45	200	350	93			
4/19/2006	45	220	350	80			
9/24/2006	62	220	350	140			
12/5/2006	87	260	350	110			
3/14/2007				390			
3/16/2007	26	210	320				
4/23/2007	47	220	290				
9/19/2007	37	220	340	33			
10/30/2007	24	220	350	18			
1/23/2008	<10	220	360	92			
4/7/2008	53	210	400				
4/8/2008				74			
7/9/2008	28	210	350	76			
12/2/2008	79	230	380				
1/7/2009	49	230	380	200			
6/15/2009	46	210	330	82			
8/26/2009	20	230	340	140			
10/20/2009	39	210	380	100	130	230	260
11/16/2009					910	260	250
12/21/2009					150	290	270
1/25/2010	20	190	350	87	150	290	360
4/13/2010	<10	190	330	230	150	290	510
7/14/2010				180	170	390	280
7/15/2010	39	240	350				
10/19/2010	65	230	400	72	200	410	270
3/3/2011	52	240	380	190	200	400	460
4/19/2011	<10	180	350	54	150	400	390
7/20/2011	32	220	360	100	200	440	380
10/11/2011				200	200	440	370
10/12/2011	35	240	340				
2/20/2012	35	220	370	53	210	410	360

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
4/23/2012	45	230	400	71	210	410	350
9/10/2012	57	230	380	96			
9/14/2012					210	440	420
11/26/2012	59	260	380	290	230	400	430
1/10/2013				190	190	380	380
1/11/2013	29	240	370				
5/15/2013	63	250	380	84	210	400	380
7/17/2013	54	220	350	180	160	370	320
11/6/2013	55	230	360	340	190	430	410
3/12/2014	28	250	390	150	170	430	340
4/21/2014	77	220	360	91	180	420	300
7/8/2014	53	230	360	70	200	460	360
10/29/2014	56	240	390	320	180	450	350
1/7/2015	47	244	383	385	177	460	364
4/13/2015				214	162	474	281
4/14/2015	22	201	341				
7/2/2015	56	223	383				
7/7/2015				177	155	446	281

Time Series

Constituent: Total Organic Carbon [TOC] (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
9/25/1992	4.13			1.67			
11/9/1992	1.13	1.13	<1				
1/18/1993		<1		1.39			
1/19/1993	1.11		<1				
4/26/1993	3.38	1.37	1.63	2.13			
7/19/1993	3.6	1.75	1.84				
7/20/1993				1.64			
10/19/1993	2.07	<1	<1				
10/20/1993				2.96			
2/8/1994	1	<1	<1				
2/9/1994				1			
4/18/1994	5.6	5.54	7.99				
4/20/1994				1.59			
7/13/1994				1.71			
7/14/1994	1.41	<1	<1				
10/18/1994				3.24			
10/19/1994	4.85	3.96	2.87				
1/11/1995	2.22	1.61	<1	1.44			
4/25/1995				1.13			
4/26/1995	1.45	2.92	3.33				
7/10/1995				3.59			
7/11/1995	2.67	4.93	2.83				
11/14/1995	2.47	2.66		3.14			
11/15/1995			1.72				
2/19/1996				1.86			
2/20/1996	1.84	1.83	2.61				
5/21/1996		1.39		1.36			
5/22/1996			2.28				
6/5/1996	1.31						
8/19/1996	3	2.86	3.55	3.07			
11/5/1996	1.93	1.66	1.88	1.62			
1/7/1997	<1	<1	<1	<1			
4/8/1997	2.6	2.2	2.5	1.4			
7/8/1997	1.3	1.7	2.1	1.6			
10/9/1997	1.1	1	1.4	1			
3/19/1998	1.4	3.2	3.4	1.7			
4/14/1998	<1	<1	<1	<1			
9/30/1998		2.4	2.7	2			
12/1/1998	2.5	4.5	6	2.9			
3/9/1999	<1	2.6	3.3	1.2			
6/22/1999	1.8	3	5				
9/7/1999		<1	1	1			
11/2/1999	4.1	4.8	6.6	3.1			
1/5/2000	2.8	1.7	3.2	2.3			
6/19/2000				<1			
6/20/2000	<1	<1	<1				
9/6/2000	<1	<1	<1	<1			
11/28/2000	<1	<1	<1	<1			
1/22/2001	1	1	<1	<1			
4/2/2001	2.3	3.8	7.8	1.7			
7/26/2001	2	1.7	1.9	2.3			
10/18/2001	<1	<1	<1				

Time Series

Constituent: Total Organic Carbon [TOC] (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
10/19/2001				3.9			
1/14/2002	1.2	<1	<1				
1/15/2002				<1			
4/29/2002	1.5	2.4	3.8				
4/30/2002				1.5			
9/18/2002	<1	<1	<1	<1			
11/19/2002	6.2	<1	1	1.6			
3/10/2003	<1	<1	1.01	1.64			
4/10/2003	2.15	<1	1.3	1.03			
7/22/2003	1.14	5.52	<1	9.68			
11/25/2003	2.3	<2	<2				
11/26/2003				<2			
3/16/2004				2.8			
3/17/2004	2.4	<1	<1				
6/23/2004	1.7	<1	<1	2.5			
9/29/2004	<1	<1	<1	1.1			
12/27/2004	10	26	38	14			
3/30/2005	<1	<1	<1	<1			
6/20/2005	<1	<1	<1	<1			
9/27/2005	<1	<1	<1	<1			
12/16/2005	<1	<1	<1	1.3			
1/9/2006	<1	<1	<1	<1			
4/19/2006	<1	<1	<1	<1			
9/24/2006	<1	<1	<1	<1			
12/5/2006	<1	<1	<1	1.1			
3/14/2007				<1			
3/16/2007	<1	<1	<1				
4/23/2007	<1	<1	<1				
9/19/2007	<1	<1	<1	1.3			
10/30/2007	<1	<1	<1	1			
1/23/2008	<1	<1	<1	<1			
4/7/2008	<1	<1	<1				
4/8/2008				2.4			
7/9/2008	<1	<1	<1	16			
12/2/2008	1.1	<1	<1				
1/7/2009	1.1	<1	<1	1.3			
6/15/2009	1	<1	<1	2.1			
8/26/2009	<1	<1	<1	1.4			
10/20/2009	<1	<1	<1	<1	<1	1.2	5.9
11/16/2009					1	1.5	1.7
12/21/2009					1.1	1.5	1.6
1/25/2010	<1	<1	<1	1.4	1.2	1.4	1.9
4/13/2010	<1	<1	<1	1.7	1.1	1.5	2.5
7/14/2010				1.8	1.9	1.8	1.9
7/15/2010	1.6	1.1	1.4				
10/19/2010	1.3	1	1.1	1.5	1.5	2.2	7.5
3/3/2011	<1	<1	1	1.5	1.3	1.6	1.8
4/19/2011	1.3	<1	1	1.4	1.3	1.8	1.8
7/20/2011	1.1	<1	<1	1.3	<1	1.7	1.7
10/11/2011				1.5	1	1.6	1.6
10/12/2011	1.3	<1	<1				
2/20/2012	<1	<1	<1	2.7	1.1	1.3	1.6

Time Series

Constituent: Total Organic Carbon [TOC] (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
4/23/2012	<1	<1	<1	1.6	1	1.5	1.5
9/10/2012	1	<1	<1	1.2			
9/14/2012					<1	1.6	1.9
11/26/2012	1.1	<1	1.1	1.6	1.5	1.7	2.8
1/10/2013				1.2	1	1.4	1.9
1/11/2013	<1	<1	<1				
5/15/2013	<1	1	<1	1.4	1.1	1.5	2.2
7/17/2013	1.4	1.1	1.1	1.9	1.3	1.8	2
11/6/2013	<1	<1	<1	1.4	<1	1.4	1.4
3/12/2014	<1	<1	<1	1.2	<1	<1	1.3
4/21/2014	1	<1	<1	1.2	<1	1.2	2.6
7/8/2014	1.3	1.1	1.4	1.8	1.4	2.1	2.2
10/29/2014	1.5	1.3	1.6	2.3	1.3	2.4	2
1/7/2015	<1	<1	<1	<1	<1	<1	<1
4/13/2015				<1	<1	<1	<1
4/14/2015	<1	<1	<1				
7/2/2015	1	<1	<1				
7/7/2015				1.9	<1	1.6	2

Time Series

Constituent: Total Organic Halides (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
9/25/1992	<0.01			<0.01			
11/9/1992	<0.01	<0.01	<0.01				
1/18/1993		<0.01		0.02			
1/19/1993	<0.01		<0.01				
4/26/1993	<0.01	<0.01	<0.01	<0.01			
7/19/1993	<0.01	0.01	<0.01				
7/20/1993				<0.01			
10/19/1993	<0.01	<0.01	<0.01				
10/20/1993				<0.01			
2/8/1994	<0.01	<0.01	<0.01				
2/9/1994				<0.01			
4/18/1994	<0.01	<0.01	<0.01				
4/20/1994				<0.01			
7/13/1994				0.37			
7/14/1994	0.33	0.16	0.27				
10/18/1994				<0.01			
10/19/1994	<0.01	<0.01	<0.01				
1/11/1995	<0.01	<0.01	<0.01	<0.01			
4/25/1995				<0.01			
4/26/1995	<0.01	<0.01	<0.01				
7/10/1995				<0.01			
7/11/1995	<0.01	<0.01	<0.01				
11/14/1995	<0.01	<0.01		<0.01			
11/15/1995			<0.01				
2/19/1996				<0.01			
2/20/1996	<0.01	<0.01	<0.01				
5/21/1996		<0.01		<0.01			
5/22/1996			<0.01				
6/5/1996	<0.01						
8/19/1996	<0.01	<0.01	<0.01	<0.01			
11/5/1996	0.11	<0.01	<0.01	<0.01			
1/7/1997	<0.01	1.03	0.02	<0.01			
4/8/1997	<0.01	<0.01	<0.01	<0.01			
7/8/1997	<0.01	<0.01	<0.01	<0.01			
10/9/1997	<0.01	0.02	0.03	0.01			
3/19/1998	0.02	<0.01	0.03	0.05			
4/14/1998	<0.01	<0.01	<0.01	<0.01			
9/30/1998		0.01	<0.01	<0.01			
12/1/1998	<0.01	<0.01	0.03	<0.01			
3/9/1999	0.01	0.01	<0.01	<0.01			
6/22/1999	0.08	0.12	0.09				
9/7/1999		<0.01	<0.01	0.02			
11/2/1999	<0.01	<0.01	0.02	<0.01			
1/5/2000	0.02	0.01	0.01	<0.01			
6/19/2000				<0.01			
6/20/2000	<0.01	0.03	0.02				
9/6/2000	0.117	0.08	0.08	0.06			
11/28/2000	0.03	0.02	0.03	0.04			
1/22/2001	<0.01	0.01	<0.01	<0.01			
4/2/2001	<0.01	<0.01	<0.01	<0.01			
7/26/2001	<0.01	<0.01	<0.01	<0.01			
10/18/2001	<0.01	<0.01	<0.01				

Time Series

Constituent: Total Organic Halides (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
10/19/2001				0.03			
1/14/2002	<0.01	<0.01	<0.01				
1/15/2002				<0.01			
4/29/2002	<0.01	<0.01	<0.01				
4/30/2002				<0.01			
9/18/2002	<0.01	<0.01	<0.01	0.13			
11/19/2002	<0.01	0.1	<0.01	0.08			
3/10/2003	<0.01	<0.01	<0.01	<0.01			
4/10/2003	<0.01	<0.01	<0.01	<0.01			
7/22/2003	0.01	0.014	0.012	<0.01			
11/25/2003	0.015	<0.01	<0.01				
11/26/2003				0.061			
3/16/2004				<0.01			
3/17/2004	<0.01	<0.01	<0.01				
6/23/2004	<0.01	<0.01	<0.01	<0.01			
9/29/2004	<0.01	<0.01	<0.01	<0.01			
12/27/2004	<0.01	<0.01	<0.01	<0.01			
3/30/2005	<0.01	<0.01	<0.01	<0.01			
6/20/2005	<0.01	<0.01	<0.01	0.014			
9/27/2005	0.043	0.042	0.086	0.012			
12/16/2005	0.033	<0.01	0.058	0.074			
1/9/2006	0.123	0.081	0.051	0.105			
4/19/2006	0.037	<0.01	<0.01	0.037			
9/24/2006	0.042	0.064	0.034	<0.01			
12/5/2006	<0.01	0.028	<0.01	<0.01			
3/14/2007				<0.01			
3/16/2007	<0.01	<0.01	<0.01				
4/23/2007	<0.01	<0.01	<0.01				
9/19/2007	<0.01	<0.01	0.012	<0.01			
10/30/2007	<0.01	<0.01	0.014	<0.01			
1/23/2008	<0.01	<0.01	0.03	0.012			
4/7/2008	<0.01	<0.01	<0.01				
4/8/2008				0.019			
7/9/2008	<0.01	<0.01	0.026	<0.01			
12/2/2008	<0.01	<0.01	<0.01				
1/7/2009	<0.01	<0.01	<0.01	0.01			
6/15/2009	<0.01	<0.01	<0.01	<0.01			
8/26/2009	<0.01	0.015	0.013	<0.01			
10/20/2009	<0.01	<0.01	0.034	<0.01	<0.01	<0.01	0.012
11/16/2009					<0.01	0.012	0.017
12/21/2009					<0.01	<0.01	0.013
1/25/2010	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.014
4/13/2010	<0.01	<0.01	0.014	0.011	<0.01	<0.01	0.013
7/14/2010				<0.01	<0.01	<0.01	0.017
7/15/2010	<0.01	<0.01	0.027				
10/19/2010	0.012	<0.01	0.075	<0.01	<0.01	0.015	0.031
3/3/2011	<0.01	0.014	0.011	0.012	0.012	0.014	0.022
4/19/2011	<0.01	0.011	0.015	<0.01	0.02	<0.01	<0.01
7/20/2011	<0.01	<0.01	0.017	0.019	0.015	0.034	0.028
10/11/2011				0.021	<0.01	0.01	0.02
10/12/2011	<0.01	0.01	0.013				
2/20/2012	<0.01	<0.01	<0.01	0.012	0.034	0.022	0.019

Time Series

Constituent: Total Organic Halides (mg/L) Analysis Run 8/14/2015 9:06 AM

Green Valley Client: RSI Data: GREENVALLEY

	MW-1	MW-1A	MW-1B	MW-3	MW-28E	MW-28D	MW-28C
4/23/2012	0.012	<0.01	0.015	<0.01	<0.01	0.015	0.022
9/10/2012	<0.01	<0.01	0.015	<0.01			
9/14/2012					<0.01	0.011	0.01
11/26/2012	0.012	<0.01	0.016	0.015	<0.01	0.027	0.055
1/10/2013				0.01	<0.01	0.015	0.021
1/11/2013	<0.01	<0.01	0.023				
5/15/2013	<0.01	<0.01	<0.01	<0.01	0.013	0.015	0.02
7/17/2013	<0.01	<0.01	0.018	0.013	<0.01	0.019	0.044
11/6/2013	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/12/2014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/21/2014	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.045
7/8/2014	<0.01	<0.01	0.022	<0.01	<0.01	0.011	0.021
10/29/2014	<0.01	0.015	0.026	0.032	<0.01	0.013	0.039
1/7/2015	0.01	<0.01	0.014	<0.01	<0.01	0.033	0.017
4/13/2015				<0.01	<0.01	0.016	<0.01
4/14/2015	<0.01	0.015	0.014				
7/2/2015	<0.01	<0.01	<0.01				
7/7/2015				<0.01	<0.01	0.012	0.021

APPENDIX C

LABORATORY ANALYTICAL REPORT
&
FIELD INFORMATION LOGS

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(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

August 14, 2015

Environmental Manager
Republic Services, Inc. - Green Valley Landfill
100 Addington Road
Ashland, KY 41102

RE: Project: Green Valley Landfill GW
Pace Project No.: 50122680

Dear Environmental Manager:
Enclosed are the analytical results for sample(s) received by the laboratory between July 07, 2015 and July 08, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Sarkan
chris.sarkan@pacelabs.com
Project Manager

Enclosures

cc: Mr. Steve Jett, Jett Environmental Consulting
Mr. Bill Knarr, Kenvirons, Inc.

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CERTIFICATIONS

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Indiana Certification IDs
7726 Moller Road, Indianapolis, IN 46268
Illinois Certification #: 200074
Indiana Certification #: C-49-06
Kansas Certification #:E-10177
Kentucky UST Certification #: 0042
Kentucky WW Certification #:98019
Louisiana Certification #: 04076
Ohio VAP Certification #: CL-0065
Oklahoma Certification #: 2014-148
Texas Certification #: T104704355-15-9
West Virginia Certification #: 330
Wisconsin Certification #: 999788130
USDA Soil Permit #: P330-10-00128

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50122680001	MW-1	Water	07/02/15 09:05	07/07/15 08:50
50122680002	FB	Water	07/02/15 09:06	07/07/15 08:50
50122680003	Dup	Water	07/02/15 08:00	07/07/15 08:50
50122680004	MW-1A	Water	07/02/15 09:50	07/07/15 08:50
50122680005	MW-1B	Water	07/02/15 10:20	07/07/15 08:50
50122680006	MW-3	Water	07/07/15 10:30	07/08/15 09:35
50122680007	MW-28D	Water	07/07/15 11:20	07/08/15 09:35
50122680008	MW-28E	Water	07/07/15 11:55	07/08/15 09:35
50122680009	MW-28C	Water	07/07/15 12:25	07/08/15 09:35

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SAMPLE ANALYTE COUNT

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50122680001	MW-1	EPA 9056	RID	1
		EPA 6010	FRW	2
		SM 2540C	MLS	1
		EPA 410.4	BAL	1
		SM 5310C	TAD	1
50122680002	FB	EPA 9056	RID	1
		EPA 6010	FRW	2
		SM 2540C	MLS	1
		EPA 410.4	BAL	1
		SM 5310C	TAD	1
50122680003	Dup	EPA 9056	RID	1
		EPA 6010	FRW	2
		SM 2540C	MLS	1
		EPA 410.4	BAL	1
		SM 5310C	TAD	1
50122680004	MW-1A	EPA 9056	RID	1
		EPA 6010	FRW	2
		SM 2540C	MLS	1
		EPA 410.4	BAL	1
		SM 5310C	TAD	1
50122680005	MW-1B	EPA 9056	RID	1
		EPA 6010	FRW	2
		SM 2540C	MLS	1
		EPA 410.4	BAL	1
		SM 5310C	TAD	1
50122680006	MW-3	EPA 9056	RID	1
		EPA 6010	JPK	2
		EPA 180.1	MLS	1
		SM 2540C	MLS	1
		EPA 410.4	BAL	1
		SM 5310C	TAD	1
50122680007	MW-28D	EPA 9056	RID	1
		EPA 6010	JPK	2
		EPA 180.1	MLS	1
		SM 2540C	MLS	1
		EPA 410.4	BAL	1
		SM 5310C	TAD	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Lab ID	Sample ID	Method	Analysts	Analytes Reported
50122680008	**MW-28E**	EPA 9056	RID	1
		EPA 6010	JPK	2
		EPA 180.1	MLS	1
		SM 2540C	MLS	1
		EPA 410.4	BAL	1
		SM 5310C	TAD	1
50122680009	**MW-28C**	EPA 9056	RID	1
		EPA 6010	JPK	2
		EPA 180.1	MLS	1
		SM 2540C	MLS	1
		EPA 410.4	BAL	1
		SM 5310C	TAD	1

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SUMMARY OF DETECTION

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50122680001	**MW-1**					
	Collected Date	07/02/2015	no units		07/02/15 00:00	
	Collected Time	08:30	no units		07/02/15 00:00	
	Field pH	5.84	Std. Units		07/02/15 00:00	
	Field Temperature	14.66	deg C		07/02/15 00:00	
	Field Specific Conductance	71	umhos/cm		07/02/15 00:00	
	Field Turbidity	9.2	NTU		07/02/15 00:00	
	Elevation Water Level	613.20	ft/msl		07/02/15 00:00	
	Collar Elevation	617.80	ft/msl		07/02/15 00:00	
	Depth to Water	4.60	feet		07/02/15 00:00	
EPA 9056	Chloride	1.4	mg/L	0.25	07/08/15 15:22	
EPA 6010	Iron	0.15	mg/L	0.020	07/15/15 13:22	
EPA 6010	Sodium	2.0	mg/L	0.10	07/15/15 13:22	
SM 2540C	Total Dissolved Solids	56	mg/L	10.0	07/08/15 12:21	
SM 5310C	Total Organic Carbon	1.0	mg/L	1.0	07/10/15 23:59	
50122680002	**FB**					
	Collected Date	07/02/2015	no units		07/02/15 00:00	
	Collected Time	09:06	no units		07/02/15 00:00	
50122680003	**Dup**					
	Collected Date	07/02/2015	no units		07/02/15 00:00	
EPA 9056	Chloride	1.2	mg/L	0.25	07/08/15 15:51	
EPA 6010	Iron	0.15	mg/L	0.020	07/15/15 13:40	
EPA 6010	Sodium	1.8	mg/L	0.10	07/15/15 13:40	
SM 2540C	Total Dissolved Solids	38	mg/L	10.0	07/08/15 12:21	
50122680004	**MW-1A**					
	Collected Date	07/02/2015	no units		07/02/15 00:00	
	Collected Time	09:22	no units		07/02/15 00:00	
	Field pH	6.95	Std. Units		07/02/15 00:00	
	Field Temperature	13.10	deg C		07/02/15 00:00	
	Field Specific Conductance	377	umhos/cm		07/02/15 00:00	
	Field Turbidity	73.4	NTU		07/02/15 00:00	
	Elevation Water Level	616.08	ft/msl		07/02/15 00:00	
	Collar Elevation	618.60	ft/msl		07/02/15 00:00	
	Depth to Water	2.52	feet		07/02/15 00:00	
EPA 9056	Chloride	3.1	mg/L	0.25	07/08/15 16:05	
EPA 6010	Iron	1.0	mg/L	0.020	07/15/15 13:45	
EPA 6010	Sodium	19.8	mg/L	0.10	07/15/15 13:45	
SM 2540C	Total Dissolved Solids	223	mg/L	10.0	07/08/15 12:22	
50122680005	**MW-1B**					
	Collected Date	07/02/2015	no units		07/02/15 00:00	
	Collected Time	09:55	no units		07/02/15 00:00	
	Field pH	7.45	Std. Units		07/02/15 00:00	
	Field Temperature	13.15	deg C		07/02/15 00:00	
	Field Specific Conductance	655	umhos/cm		07/02/15 00:00	
	Field Turbidity	16.1	NTU		07/02/15 00:00	
	Elevation Water Level	612.69	ft/msl		07/02/15 00:00	

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SUMMARY OF DETECTION

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50122680005	**MW-1B**					
	Collar Elevation	618.70	ft/msl		07/02/15 00:00	
	Depth to Water	6.01	feet		07/02/15 00:00	
EPA 9056	Chloride	35.1	mg/L	2.5	07/08/15 16:19	
EPA 6010	Iron	0.074	mg/L	0.020	07/15/15 13:47	
EPA 6010	Sodium	125	mg/L	0.10	07/15/15 13:47	
SM 2540C	Total Dissolved Solids	383	mg/L	10.0	07/08/15 12:22	
50122680006	**MW-3**					
	Collected Date	07/07/2015	no units		07/07/15 00:00	
	Collected Time	09:45	no units		07/07/15 00:00	
	Field pH	5.70	Std. Units		07/07/15 00:00	
	Field Temperature	18.68	deg C		07/07/15 00:00	
	Field Specific Conductance	300	umhos/cm		07/07/15 00:00	
	Field Turbidity	2.12	NTU		07/07/15 00:00	
	Elevation Water Level	625.60	ft/msl		07/07/15 00:00	
	Collar Elevation	630.80	ft/msl		07/07/15 00:00	
	Depth to Water	5.20	feet		07/07/15 00:00	
EPA 9056	Chloride	12.2	mg/L	0.25	07/09/15 23:01	
EPA 6010	Iron	9.9	mg/L	0.020	07/10/15 03:51	
EPA 6010	Sodium	7.8	mg/L	0.10	07/10/15 03:51	
EPA 180.1	Turbidity	12.5	NTU	1.0	07/08/15 11:29	
SM 2540C	Total Dissolved Solids	177	mg/L	10.0	07/11/15 11:54	
SM 5310C	Total Organic Carbon	1.9	mg/L	1.0	07/10/15 23:59	
50122680007	**MW-28D**					
	Collected Date	07/07/2015	no units		07/07/15 00:00	
	Collected Time	11:05	no units		07/07/15 00:00	
	Field pH	5.71	Std. Units		07/07/15 00:00	
	Field Temperature	21.42	deg C		07/07/15 00:00	
	Field Specific Conductance	701	umhos/cm		07/07/15 00:00	
	Field Turbidity	1.34	NTU		07/07/15 00:00	
	Elevation Water Level	670.30	ft/msl		07/07/15 00:00	
	Collar Elevation	675.20	ft/msl		07/07/15 00:00	
	Depth to Water	4.90	feet		07/07/15 00:00	
EPA 9056	Chloride	29.7	mg/L	2.5	07/09/15 23:29	
EPA 6010	Iron	32.2	mg/L	0.020	07/10/15 04:06	
EPA 6010	Sodium	27.8	mg/L	0.10	07/10/15 04:06	
EPA 180.1	Turbidity	110	NTU	5.0	07/08/15 11:29	
SM 2540C	Total Dissolved Solids	446	mg/L	10.0	07/11/15 11:54	
SM 5310C	Total Organic Carbon	1.6	mg/L	1.0	07/10/15 23:59	
50122680008	**MW-28E**					
	Collected Date	07/07/2015	no units		07/07/15 00:00	
	Collected Time	11:35	no units		07/07/15 00:00	
	Field pH	6.34	Std. Units		07/07/15 00:00	
	Field Temperature	19.38	deg C		07/07/15 00:00	
	Field Specific Conductance	284	umhos/cm		07/07/15 00:00	
	Field Turbidity	2.50	NTU		07/07/15 00:00	
	Elevation Water Level	668.19	ft/msl		07/07/15 00:00	

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SUMMARY OF DETECTION

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50122680008	**MW-28E**					
	Collar Elevation	677.00	ft/msl		07/07/15 00:00	
	Depth to Water	8.81	feet		07/07/15 00:00	
EPA 9056	Chloride	1.6	mg/L	0.25	07/10/15 00:12	
EPA 6010	Iron	0.79	mg/L	0.020	07/10/15 04:08	
EPA 6010	Sodium	10.3	mg/L	0.10	07/10/15 04:08	
EPA 180.1	Turbidity	5.1	NTU	1.0	07/08/15 11:29	
SM 2540C	Total Dissolved Solids	155	mg/L	10.0	07/11/15 11:54	
50122680009	**MW-28C**					
	Collected Date	07/07/2015	no units		07/07/15 00:00	
	Collected Time	12:05	no units		07/07/15 00:00	
	Field pH	5.00	Std. Units		07/07/15 00:00	
	Field Temperature	17.95	deg C		07/07/15 00:00	
	Field Specific Conductance	434	umhos/cm		07/07/15 00:00	
	Field Turbidity	0.77	NTU		07/07/15 00:00	
	Elevation Water Level	670.20	ft/msl		07/07/15 00:00	
	Collar Elevation	674.40	ft/msl		07/07/15 00:00	
	Depth to Water	4.20	feet		07/07/15 00:00	
EPA 9056	Chloride	17.5	mg/L	2.5	07/10/15 00:26	
EPA 6010	Iron	12.1	mg/L	0.020	07/10/15 04:10	
EPA 6010	Sodium	14.2	mg/L	0.10	07/10/15 04:10	
EPA 180.1	Turbidity	33.0	NTU	1.0	07/08/15 11:29	
SM 2540C	Total Dissolved Solids	281	mg/L	10.0	07/11/15 11:54	
SM 5310C	Total Organic Carbon	2.0	mg/L	1.0	07/10/15 23:59	

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ANALYTICAL RESULTS

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Sample: MW-1 **Lab ID: 50122680001** Collected: 07/02/15 09:05 Received: 07/07/15 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Collected Date	**07/02/2015**	no units		1		07/02/15 00:00		
Collected Time	**08:30**	no units		1		07/02/15 00:00		
Field pH	**5.84**	Std. Units		1		07/02/15 00:00		
Field Temperature	**14.66**	deg C		1		07/02/15 00:00		
Field Specific Conductance	**71**	umhos/cm		1		07/02/15 00:00		
Field Turbidity	**9.2**	NTU		1		07/02/15 00:00		
Elevation Water Level	**613.20**	ft/msl		1		07/02/15 00:00		
Collar Elevation	**617.80**	ft/msl		1		07/02/15 00:00		
Depth to Water	**4.60**	feet		1		07/02/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**1.4**	mg/L	0.25	1		07/08/15 15:22	16887-00-6	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**0.15**	mg/L	0.020	1	07/08/15 15:08	07/15/15 13:22	7439-89-6	
Sodium	**2.0**	mg/L	0.10	1	07/08/15 15:08	07/15/15 13:22	7440-23-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**56**	mg/L	10.0	1		07/08/15 12:21		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	07/15/15 09:00	07/15/15 14:56		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.0**	mg/L	1.0	1		07/10/15 23:59	7440-44-0	

Sample: FB **Lab ID: 50122680002** Collected: 07/02/15 09:06 Received: 07/07/15 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Collected Date	**07/02/2015**	no units		1		07/02/15 00:00		
Collected Time	**09:06**	no units		1		07/02/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	ND	mg/L	0.25	1		07/08/15 15:36	16887-00-6	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	ND	mg/L	0.020	1	07/08/15 15:08	07/15/15 13:24	7439-89-6	
Sodium	ND	mg/L	0.10	1	07/08/15 15:08	07/15/15 13:24	7440-23-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	1		07/08/15 12:21		

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ANALYTICAL RESULTS

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Sample: FB **Lab ID: 50122680002** Collected: 07/02/15 09:06 Received: 07/07/15 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	07/15/15 09:00	07/15/15 14:56		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		07/10/15 23:59	7440-44-0	

Sample: Dup **Lab ID: 50122680003** Collected: 07/02/15 08:00 Received: 07/07/15 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Collected Date	**07/02/2015**	no units		1		07/02/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**1.2**	mg/L	0.25	1		07/08/15 15:51	16887-00-6	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**0.15**	mg/L	0.020	1	07/08/15 15:08	07/15/15 13:40	7439-89-6	
Sodium	**1.8**	mg/L	0.10	1	07/08/15 15:08	07/15/15 13:40	7440-23-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**38**	mg/L	10.0	1		07/08/15 12:21		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	07/15/15 09:00	07/15/15 14:56		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		07/10/15 23:59	7440-44-0	

Sample: MW-1A **Lab ID: 50122680004** Collected: 07/02/15 09:50 Received: 07/07/15 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Collected Date	**07/02/2015**	no units		1		07/02/15 00:00		
Collected Time	**09:22**	no units		1		07/02/15 00:00		
Field pH	**6.95**	Std. Units		1		07/02/15 00:00		
Field Temperature	**13.10**	deg C		1		07/02/15 00:00		
Field Specific Conductance	**377**	umhos/cm		1		07/02/15 00:00		
Field Turbidity	**73.4**	NTU		1		07/02/15 00:00		
Elevation Water Level	**616.08**	ft/msl		1		07/02/15 00:00		
Collar Elevation	**618.60**	ft/msl		1		07/02/15 00:00		
Depth to Water	**2.52**	feet		1		07/02/15 00:00		

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ANALYTICAL RESULTS

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Sample: MW-1A **Lab ID: 50122680004** Collected: 07/02/15 09:50 Received: 07/07/15 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**3.1**	mg/L	0.25	1		07/08/15 16:05	16887-00-6	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**1.0**	mg/L	0.020	1	07/08/15 15:08	07/15/15 13:45	7439-89-6	
Sodium	**19.8**	mg/L	0.10	1	07/08/15 15:08	07/15/15 13:45	7440-23-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**223**	mg/L	10.0	1		07/08/15 12:22		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	07/15/15 09:00	07/15/15 14:56		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		07/10/15 23:59	7440-44-0	

Sample: MW-1B **Lab ID: 50122680005** Collected: 07/02/15 10:20 Received: 07/07/15 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Collected Date	**07/02/2015**	no units		1		07/02/15 00:00		
Collected Time	**09:55**	no units		1		07/02/15 00:00		
Field pH	**7.45**	Std. Units		1		07/02/15 00:00		
Field Temperature	**13.15**	deg C		1		07/02/15 00:00		
Field Specific Conductance	**655**	umhos/cm		1		07/02/15 00:00		
Field Turbidity	**16.1**	NTU		1		07/02/15 00:00		
Elevation Water Level	**612.69**	ft/msl		1		07/02/15 00:00		
Collar Elevation	**618.70**	ft/msl		1		07/02/15 00:00		
Depth to Water	**6.01**	feet		1		07/02/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**35.1**	mg/L	2.5	10		07/08/15 16:19	16887-00-6	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**0.074**	mg/L	0.020	1	07/08/15 15:08	07/15/15 13:47	7439-89-6	
Sodium	**125**	mg/L	0.10	1	07/08/15 15:08	07/15/15 13:47	7440-23-5	
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**383**	mg/L	10.0	1		07/08/15 12:22		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	07/15/15 09:00	07/15/15 14:56		

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ANALYTICAL RESULTS

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Sample: MW-1B **Lab ID: 50122680005** Collected: 07/02/15 10:20 Received: 07/07/15 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		07/10/15 23:59	7440-44-0	

Sample: MW-3 **Lab ID: 50122680006** Collected: 07/07/15 10:30 Received: 07/08/15 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Collected Date	**07/07/2015**	no units		1		07/07/15 00:00		
Collected Time	**09:45**	no units		1		07/07/15 00:00		
Field pH	**5.70**	Std. Units		1		07/07/15 00:00		
Field Temperature	**18.68**	deg C		1		07/07/15 00:00		
Field Specific Conductance	**300**	umhos/cm		1		07/07/15 00:00		
Field Turbidity	**2.12**	NTU		1		07/07/15 00:00		
Elevation Water Level	**625.60**	ft/msl		1		07/07/15 00:00		
Collar Elevation	**630.80**	ft/msl		1		07/07/15 00:00		
Depth to Water	**5.20**	feet		1		07/07/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**12.2**	mg/L	0.25	1		07/09/15 23:01	16887-00-6	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**9.9**	mg/L	0.020	1	07/09/15 14:06	07/10/15 03:51	7439-89-6	
Sodium	**7.8**	mg/L	0.10	1	07/09/15 14:06	07/10/15 03:51	7440-23-5	
180.1 Turbidity	Analytical Method: EPA 180.1							
Turbidity	**12.5**	NTU	1.0	1		07/08/15 11:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**177**	mg/L	10.0	1		07/11/15 11:54		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	07/20/15 14:30	07/21/15 07:36		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.9**	mg/L	1.0	1		07/10/15 23:59	7440-44-0	

Sample: MW-28D **Lab ID: 50122680007** Collected: 07/07/15 11:20 Received: 07/08/15 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Collected Date	**07/07/2015**	no units		1		07/07/15 00:00		
Collected Time	**11:05**	no units		1		07/07/15 00:00		

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ANALYTICAL RESULTS

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Sample: MW-28D **Lab ID: 50122680007** Collected: 07/07/15 11:20 Received: 07/08/15 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Field pH	**5.71**	Std. Units		1		07/07/15 00:00		
Field Temperature	**21.42**	deg C		1		07/07/15 00:00		
Field Specific Conductance	**701**	umhos/cm		1		07/07/15 00:00		
Field Turbidity	**1.34**	NTU		1		07/07/15 00:00		
Elevation Water Level	**670.30**	ft/msl		1		07/07/15 00:00		
Collar Elevation	**675.20**	ft/msl		1		07/07/15 00:00		
Depth to Water	**4.90**	feet		1		07/07/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**29.7**	mg/L	2.5	10		07/09/15 23:29	16887-00-6	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**32.2**	mg/L	0.020	1	07/09/15 14:06	07/10/15 04:06	7439-89-6	
Sodium	**27.8**	mg/L	0.10	1	07/09/15 14:06	07/10/15 04:06	7440-23-5	
180.1 Turbidity	Analytical Method: EPA 180.1							
Turbidity	**110**	NTU	5.0	5		07/08/15 11:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**446**	mg/L	10.0	1		07/11/15 11:54		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	07/20/15 14:30	07/21/15 07:36		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**1.6**	mg/L	1.0	1		07/10/15 23:59	7440-44-0	

Sample: MW-28E **Lab ID: 50122680008** Collected: 07/07/15 11:55 Received: 07/08/15 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Collected Date	**07/07/2015**	no units		1		07/07/15 00:00		
Collected Time	**11:35**	no units		1		07/07/15 00:00		
Field pH	**6.34**	Std. Units		1		07/07/15 00:00		
Field Temperature	**19.38**	deg C		1		07/07/15 00:00		
Field Specific Conductance	**284**	umhos/cm		1		07/07/15 00:00		
Field Turbidity	**2.50**	NTU		1		07/07/15 00:00		
Elevation Water Level	**668.19**	ft/msl		1		07/07/15 00:00		
Collar Elevation	**677.00**	ft/msl		1		07/07/15 00:00		
Depth to Water	**8.81**	feet		1		07/07/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**1.6**	mg/L	0.25	1		07/10/15 00:12	16887-00-6	

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ANALYTICAL RESULTS

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Sample: MW-28E **Lab ID: 50122680008** Collected: 07/07/15 11:55 Received: 07/08/15 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**0.79**	mg/L	0.020	1	07/09/15 14:06	07/10/15 04:08	7439-89-6	
Sodium	**10.3**	mg/L	0.10	1	07/09/15 14:06	07/10/15 04:08	7440-23-5	
180.1 Turbidity	Analytical Method: EPA 180.1							
Turbidity	**5.1**	NTU	1.0	1		07/08/15 11:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**155**	mg/L	10.0	1		07/11/15 11:54		
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	07/20/15 14:30	07/21/15 07:36		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	ND	mg/L	1.0	1		07/10/15 23:59	7440-44-0	

Sample: MW-28C **Lab ID: 50122680009** Collected: 07/07/15 12:25 Received: 07/08/15 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:							
Collected Date	**07/07/2015**	no units		1		07/07/15 00:00		
Collected Time	**12:05**	no units		1		07/07/15 00:00		
Field pH	**5.00**	Std. Units		1		07/07/15 00:00		
Field Temperature	**17.95**	deg C		1		07/07/15 00:00		
Field Specific Conductance	**434**	umhos/cm		1		07/07/15 00:00		
Field Turbidity	**0.77**	NTU		1		07/07/15 00:00		
Elevation Water Level	**670.20**	ft/msl		1		07/07/15 00:00		
Collar Elevation	**674.40**	ft/msl		1		07/07/15 00:00		
Depth to Water	**4.20**	feet		1		07/07/15 00:00		
9056 IC Anions	Analytical Method: EPA 9056							
Chloride	**17.5**	mg/L	2.5	10		07/10/15 00:26	16887-00-6	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Iron	**12.1**	mg/L	0.020	1	07/09/15 14:06	07/10/15 04:10	7439-89-6	
Sodium	**14.2**	mg/L	0.10	1	07/09/15 14:06	07/10/15 04:10	7440-23-5	
180.1 Turbidity	Analytical Method: EPA 180.1							
Turbidity	**33.0**	NTU	1.0	1		07/08/15 11:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C							
Total Dissolved Solids	**281**	mg/L	10.0	1		07/11/15 11:54		

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ANALYTICAL RESULTS

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Sample: MW-28C **Lab ID: 50122680009** Collected: 07/07/15 12:25 Received: 07/08/15 09:35 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4 Preparation Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1	07/20/15 14:30	07/21/15 07:36		
5310C TOC	Analytical Method: SM 5310C							
Total Organic Carbon	**2.0**	mg/L	1.0	1		07/10/15 23:59	7440-44-0	

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QUALITY CONTROL DATA

Project: Green Valley Landfill GW
Pace Project No.: 50122680

QC Batch: GCSV/15941 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 50122680001, 50122680002, 50122680003, 50122680004, 50122680005

METHOD BLANK: 1333073 Matrix: Water
Associated Lab Samples: 50122680001, 50122680002, 50122680003, 50122680004, 50122680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	07/08/15 11:59	

LABORATORY CONTROL SAMPLE: 1333074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.2	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1333075 1333076

Parameter	Units	50122741004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	24.6	12.5	12.5	35.3	34.9	85	82	80-120	1	15	

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QUALITY CONTROL DATA

Project: Green Valley Landfill GW
Pace Project No.: 50122680

QC Batch: GCSV/15958 Analysis Method: EPA 9056
QC Batch Method: EPA 9056 Analysis Description: 9056 IC Anions
Associated Lab Samples: 50122680006, 50122680007, 50122680008, 50122680009

METHOD BLANK: 1333908 Matrix: Water
Associated Lab Samples: 50122680006, 50122680007, 50122680008, 50122680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	07/09/15 22:32	

LABORATORY CONTROL SAMPLE: 1333909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	1.2	1.1	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1333910 1333911

Parameter	Units	50122897001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	42.2	12.5	12.5	53.1	52.3	87	81	80-120	2	15	

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QUALITY CONTROL DATA

Project: Green Valley Landfill GW
Pace Project No.: 50122680

QC Batch: MPRP/16852 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50122680001, 50122680002, 50122680003, 50122680004, 50122680005

METHOD BLANK: 1333087 Matrix: Water
Associated Lab Samples: 50122680001, 50122680002, 50122680003, 50122680004, 50122680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	mg/L	ND	0.020	07/15/15 12:47	
Sodium	mg/L	0.12	0.10	07/15/15 12:47	

LABORATORY CONTROL SAMPLE: 1333088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	10	10	100	80-120	
Sodium	mg/L	10	9.9	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1333089 1333090

Parameter	Units	50122680002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	mg/L	ND	10	10	9.6	9.6	96	96	75-125	0	20	
Sodium	mg/L	ND	10	10	9.6	9.6	96	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: Green Valley Landfill GW
Pace Project No.: 50122680

QC Batch: MPRP/16868 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 50122680006, 50122680007, 50122680008, 50122680009

METHOD BLANK: 1334044 Matrix: Water
Associated Lab Samples: 50122680006, 50122680007, 50122680008, 50122680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	mg/L	ND	0.020	07/10/15 03:47	
Sodium	mg/L	ND	0.10	07/10/15 03:47	

LABORATORY CONTROL SAMPLE: 1334045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	mg/L	10	9.6	96	80-120	
Sodium	mg/L	10	9.5	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334046 1334047

Parameter	Units	50122680006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	mg/L	9.9	10	10	19.4	19.5	95	97	75-125	1	20	
Sodium	mg/L	7.8	10	10	17.2	17.3	94	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: Green Valley Landfill GW
Pace Project No.: 50122680

QC Batch: WET/23055 Analysis Method: EPA 180.1
QC Batch Method: EPA 180.1 Analysis Description: 180.1 Turbidity
Associated Lab Samples: 50122680006, 50122680007, 50122680008, 50122680009

METHOD BLANK: 1335344 Matrix: Water
Associated Lab Samples: 50122680006, 50122680007, 50122680008, 50122680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Turbidity	NTU	ND	1.0	07/08/15 11:29	

LABORATORY CONTROL SAMPLE: 1335345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Turbidity	NTU	4.6	4.7	102	90-110	

SAMPLE DUPLICATE: 1335346

Parameter	Units	50122680009 Result	Dup Result	RPD	Max RPD	Qualifiers
Turbidity	NTU	33.0	34.1	3	20	

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QUALITY CONTROL DATA

Project: Green Valley Landfill GW
Pace Project No.: 50122680

QC Batch: WET/22990 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50122680001, 50122680002, 50122680003, 50122680004, 50122680005

METHOD BLANK: 1333176 Matrix: Water
Associated Lab Samples: 50122680001, 50122680002, 50122680003, 50122680004, 50122680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	07/08/15 12:20	

LABORATORY CONTROL SAMPLE: 1333177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	300	100	80-120	

SAMPLE DUPLICATE: 1333178

Parameter	Units	50122680001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	56	48	15	10	R1

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QUALITY CONTROL DATA

Project: Green Valley Landfill GW
Pace Project No.: 50122680

QC Batch: WET/23059 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 50122680006, 50122680007, 50122680008, 50122680009

METHOD BLANK: 1335356 Matrix: Water
Associated Lab Samples: 50122680006, 50122680007, 50122680008, 50122680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	07/11/15 11:52	

LABORATORY CONTROL SAMPLE: 1335357

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	274	91	80-120	

SAMPLE DUPLICATE: 1335358

Parameter	Units	50122783001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	744	751	1	10	

SAMPLE DUPLICATE: 1335359

Parameter	Units	50122832001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1140	1120	2	10	

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QUALITY CONTROL DATA

Project: Green Valley Landfill GW
Pace Project No.: 50122680

QC Batch: WET/23118 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 50122680001, 50122680002, 50122680003, 50122680004, 50122680005

METHOD BLANK: 1337099 Matrix: Water
Associated Lab Samples: 50122680001, 50122680002, 50122680003, 50122680004, 50122680005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	07/15/15 14:56	

LABORATORY CONTROL SAMPLE: 1337100

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	100	99.6	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1337101 1337102

Parameter	Units	50122876001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	41.2	100	100	137	136	96	94	90-110	1	20	

MATRIX SPIKE SAMPLE: 1337103

Parameter	Units	50122740002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	100	109	101	90-110	

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QUALITY CONTROL DATA

Project: Green Valley Landfill GW
Pace Project No.: 50122680

QC Batch: WET/23210 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 50122680006, 50122680007, 50122680008, 50122680009

METHOD BLANK: 1340358 Matrix: Water
Associated Lab Samples: 50122680006, 50122680007, 50122680008, 50122680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	07/21/15 07:36	

LABORATORY CONTROL SAMPLE: 1340359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1340360 1340361

Parameter	Units	50122768001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chemical Oxygen Demand	mg/L	33.3	100	100	130	126	97	92	90-110	3	20	

MATRIX SPIKE SAMPLE: 1340410

Parameter	Units	50122933001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	13.8	100	111	97	90-110	

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QUALITY CONTROL DATA

Project: Green Valley Landfill GW
Pace Project No.: 50122680

QC Batch: WETA/16904 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50122680001, 50122680002, 50122680003, 50122680004

METHOD BLANK: 1334789 Matrix: Water
Associated Lab Samples: 50122680001, 50122680002, 50122680003, 50122680004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	07/10/15 23:59	

LABORATORY CONTROL SAMPLE: 1334790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.5	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334791 1334792

Parameter	Units	50122488008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.1	10	10	11.3	11.0	103	100	80-120	3	20	

MATRIX SPIKE SAMPLE: 1334793

Parameter	Units	50122529002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	1.1	10	10.8	97	80-120	

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QUALITY CONTROL DATA

Project: Green Valley Landfill GW
Pace Project No.: 50122680

QC Batch: WETA/16905 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 50122680005, 50122680006, 50122680007, 50122680008, 50122680009

METHOD BLANK: 1334799 Matrix: Water
Associated Lab Samples: 50122680005, 50122680006, 50122680007, 50122680008, 50122680009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	07/10/15 23:59	

LABORATORY CONTROL SAMPLE: 1334800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	10	10.8	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1334801 1334802

Parameter	Units	50122680005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	ND	10	10	10.9	10.8	103	101	80-120	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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4860 Blazer Parkway
Dublin, OH 43017
(614)486-5421

Pace Analytical Services, Inc.
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: Green Valley Landfill GW
Pace Project No.: 50122680

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50122680001	MW-1		FLD/1651		
50122680002	FB		FLD/1651		
50122680003	Dup		FLD/1651		
50122680004	MW-1A		FLD/1651		
50122680005	MW-1B		FLD/1651		
50122680006	MW-3		FLD/1651		
50122680007	MW-28D		FLD/1651		
50122680008	MW-28E		FLD/1651		
50122680009	MW-28C		FLD/1651		
50122680001	MW-1	EPA 9056	GCSV/15941		
50122680002	FB	EPA 9056	GCSV/15941		
50122680003	Dup	EPA 9056	GCSV/15941		
50122680004	MW-1A	EPA 9056	GCSV/15941		
50122680005	MW-1B	EPA 9056	GCSV/15941		
50122680006	MW-3	EPA 9056	GCSV/15958		
50122680007	MW-28D	EPA 9056	GCSV/15958		
50122680008	MW-28E	EPA 9056	GCSV/15958		
50122680009	MW-28C	EPA 9056	GCSV/15958		
50122680001	MW-1	EPA 3010	MPRP/16852	EPA 6010	ICP/20578
50122680002	FB	EPA 3010	MPRP/16852	EPA 6010	ICP/20578
50122680003	Dup	EPA 3010	MPRP/16852	EPA 6010	ICP/20578
50122680004	MW-1A	EPA 3010	MPRP/16852	EPA 6010	ICP/20578
50122680005	MW-1B	EPA 3010	MPRP/16852	EPA 6010	ICP/20578
50122680006	MW-3	EPA 3010	MPRP/16868	EPA 6010	ICP/20505
50122680007	MW-28D	EPA 3010	MPRP/16868	EPA 6010	ICP/20505
50122680008	MW-28E	EPA 3010	MPRP/16868	EPA 6010	ICP/20505
50122680009	MW-28C	EPA 3010	MPRP/16868	EPA 6010	ICP/20505
50122680006	MW-3	EPA 180.1	WET/23055		
50122680007	MW-28D	EPA 180.1	WET/23055		
50122680008	MW-28E	EPA 180.1	WET/23055		
50122680009	MW-28C	EPA 180.1	WET/23055		
50122680001	MW-1	SM 2540C	WET/22990		
50122680002	FB	SM 2540C	WET/22990		
50122680003	Dup	SM 2540C	WET/22990		
50122680004	MW-1A	SM 2540C	WET/22990		
50122680005	MW-1B	SM 2540C	WET/22990		
50122680006	MW-3	SM 2540C	WET/23059		
50122680007	MW-28D	SM 2540C	WET/23059		
50122680008	MW-28E	SM 2540C	WET/23059		
50122680009	MW-28C	SM 2540C	WET/23059		
50122680001	MW-1	EPA 410.4	WET/23118	EPA 410.4	WET/23129
50122680002	FB	EPA 410.4	WET/23118	EPA 410.4	WET/23129
50122680003	Dup	EPA 410.4	WET/23118	EPA 410.4	WET/23129
50122680004	MW-1A	EPA 410.4	WET/23118	EPA 410.4	WET/23129
50122680005	MW-1B	EPA 410.4	WET/23118	EPA 410.4	WET/23129

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Green Valley Landfill GW
Pace Project No.: 50122680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50122680006	MW-3	EPA 410.4	WET/23210	EPA 410.4	WET/23216
50122680007	MW-28D	EPA 410.4	WET/23210	EPA 410.4	WET/23216
50122680008	MW-28E	EPA 410.4	WET/23210	EPA 410.4	WET/23216
50122680009	MW-28C	EPA 410.4	WET/23210	EPA 410.4	WET/23216
50122680001	MW-1	SM 5310C	WETA/16904		
50122680002	FB	SM 5310C	WETA/16904		
50122680003	Dup	SM 5310C	WETA/16904		
50122680004	MW-1A	SM 5310C	WETA/16904		
50122680005	MW-1B	SM 5310C	WETA/16905		
50122680006	MW-3	SM 5310C	WETA/16905		
50122680007	MW-28D	SM 5310C	WETA/16905		
50122680008	MW-28E	SM 5310C	WETA/16905		
50122680009	MW-28C	SM 5310C	WETA/16905		

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KENVIRONS
452 Versailles Road
Frankfort, Kentucky 40601
Office: 502-695-4357
Fax: 502-695-4363

CHAIN-OF-CUSTODY / ANALYTICAL REQUEST DOCUMENT

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

Section A Required Client Information:

Company:	Kenvirons, Inc.
Address:	452 Versailles Road
	Frankfort, KY 40601
Email To:	bknarr@kenvirons.com
Phone: (502)695-4357	Fax: (502)695-4363
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	BILL KNARR
Copy To:	
Purchase Order No.:	20070016
Project Name:	Green Valley Landfill Groundwater
Project Number:	20070016

Section C Invoice Information:

Attention:	BILL KNARR
Company Name:	KENVIRONS, INC.
Address:	452 VERSAILLES ROAD FRANKFORT, KY 40601
Quote Reference:	
Project Manager:	CHRIS BOYLE
Profile #:	4634

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: KY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; LEACHATE LE; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	DATE	TIME	FLOW	TEMPERATURE	PH	SPECIFIC CONDUCTIVITY	DISSOLVED OXYGEN (CIRCLE)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: TOX	Fe, Ca	COD, TOC	Cl, TDS	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW-1	7/2/15	0905	—	14.10	5.84	71	9.2	GW	G	4	1	2	1						X	X	X	X			001
2	FB	7/2/15	0900	—	—	—	—	—	GW	G	4	1	2	1						X	X	X	X			002
3	Dup	7/2/15	—	—	—	—	—	—	GW	G	4	1	2	1						X	X	X	X			003
4	MW-1A	7/2/15	0950	—	13.10	6.95	377	73.4	GW	G	4	1	2	1						X	X	X	X			004
5	MW-1B	7/2/15	1020	—	13.15	7.45	655	16.1	GW	G	4	1	2	1						X	X	X	X			005
6																										
7																										
8																										
9																										
10																										
11																										
12																										

Residual Chlorine (Y/N): 5012268O

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Bill F. Knarr, III FedEx	7/6/15	1700	Sent Via Fed Ex	7/6/15	1700
					7/7/15	0850

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
4.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Bill F. Knarr, III

SIGNATURE of SAMPLER: Bill F. Knarr, III

DATE Signed (MM/DD/YY): 7/2/15

KENVIRONS
452 Versailles Road
Frankfort, Kentucky 40601
Office: 502-695-4357
Fax: 502-695-4363

CHAIN-OF-CUSTODY / ANALYTICAL REQUEST DOCUMENT

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

50122680

Page: 1 of 1

Section A Required Client Information:

Company:	Kenvirons, Inc.
Address:	452 Versailles Road
	Frankfort, KY 40601
Email To:	bknarr@kenvirons.com
Phone: (502)695-4357	Fax: (502)695-4363
Requested Due Date/TAT:	Standard

Section B Required Project Information:

Report To:	BILL KNARR
Copy To:	
Purchase Order No.:	20070016
Project Name:	Green Valley Landfill Groundwater
Project Number:	20070016

Section C Invoice Information:

Attention:	BILL KNARR
Company Name:	KENVIRONS, INC.
Address:	452 VERSAILLES ROAD FRANKFORT, KY 40601
Quote Reference:	
Project Manager:	CHRIS BOYLE
Profile #:	4634

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: KY

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
LEACHATE	LE
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	DATE	TIME	FLOW	TEMPERATURE	PH	SPECIFIC CONDUCTIVITY	TURBIDITY OR DISSOLVED OXYGEN (CIRCLE)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: TOX	Fe, Mn	COD, TOC	Cl, TDS	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	MW-3	7/7/15	1030	—	18.68	5.70	300	2.12	GW	G	4	1	2	1						X	X	X	X			006
2	MW-28D	7/7/15	1120	—	21.42	5.71	701	1.34	GW	G	4	1	2	1						X	X	X	X			007
3	MW-28E	7/7/15	1155	—	19.38	6.34	284	2.50	GW	G	4	1	2	1						X	X	X	X			008
4	MW-28C	7/7/15	1225	—	17.95	5.00	434	0.77	GW	G	4	1	2	1						X	X	X	X			009
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Run Turbidity!!	Bill F. Knarr, III FEDEX	7/7/15	1600	Sent Via FedEx	7/7/15	1600				
					7/8/15	0935	1.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Bill F. Knarr, III

SIGNATURE of SAMPLER: Bill F. Knarr, III DATE Signed (MM/DD/YY): 7/7/15

Sample Condition Upon Receipt

Pace Analytical

Client Name: Green Valley LE Project # 50122680

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 7739 8649 2084

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Date/Time 5035A kits placed in freezer: _____

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer: 1 2 3 4 5 6 ABCDEF Type of ice: ~~Wet~~ Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable): 1.3 Ice Visible in Sample Containers: ☐ yes ☑ no

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: MRJ 7/7/15 CHB

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Short Hold Time Analysis (<72hr):	~~☐Yes~~	☑No	☐N/A	5.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	6.
Containers Intact:	☑Yes	☐No	☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes	☐No	☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G. All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.	☑Yes	☐No	☐N/A	9. (Circle) ~~HNO3~~ H2SO4 NaOH HCl
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	10.
Trip Blank Present:	☐Yes	☐No	☑N/A	11.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Project Manager Review				
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	12.
Sufficient Volume:	☑Yes	☐No	☐N/A	13.
Correct Containers Used:	☑Yes	☐No	☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CHB **Date:** 7-7-15

Sample Condition Upon Receipt

Pace Analytical

Client Name: Kennesaw Greenway Project # 50122680

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 7789 9704 4777

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Date/Time 5035A kits placed in freezer: _____

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer 1 2 3 4 5 6 A B C D E F

Type of Ice: ~~Wet~~ Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature (Corrected, if applicable) 1.8

Ice Visible in Sample Containers: ☐ yes ☐ no

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 7/7/15 CB3

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	5.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	6.
Containers Intact:	☑Yes ☐No ☐N/A	7.
Sample Labels match COC: -Includes date/time/ID/Analysis	☑Yes ☐No ☐N/A	8.
All containers needing acid/base pres. have been checked? exceptions: VOA, coliform, TOC, O&G	☑Yes ☐No ☐N/A	9. (Circle) HNO3 H2SO4 NaOH HCl
All containers needing preservation are found to be in compliance with EPA recommendation (<2, >9, >12) unless otherwise noted.		
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	10.
Trip Blank Present:	☐Yes ☐No ☑N/A	11.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Project Manager Review:		
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	12.
Sufficient Volume:	☑Yes ☐No ☐N/A	13.
Correct Containers Used:	☑Yes ☐No ☐N/A	14.

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: CB3 **Date:** 7-9-15

Sample Container Count

CLIENT: Green Valley LC

COC PAGE ____ of ____

COC ID# _____

Project # 5B122680

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4 / 6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	____	pH <2	pH>12	Comments
1							1	1					2						✓		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

Sample Container Count

CLIENT: KENVIRONS - GREENSBURG

Pace Analytical
www.pacelabs.com

COC PAGE ____ of ____

COC ID# _____

Project # 50122680

Sample Line Item	DG9H	AG1U	WGFU	AG0U	R	4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	BP3C	BP1U	SP5T	____	pH <2	pH>12	Comments
1							3	1		1			2						✓		
2							"	"		"			"						"		
3								"		"			"						"		
4								"		"			"						"		
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber glass	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	SP5T	120mL Coliform Na Thiosulfate
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber glass	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber glass	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear glass	C	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

GREEN VALLEY LANDFILL
GROUNDWATER ELEVATION DATA
2007006

Well	Top of Casing	AKGWA #	Total Depth of Well	Depth to Water	Groundwater Elevation	Date	Time
MW-1	617.80	8000-8086	14.80	4.60	613.20	7/2/15	0830
MW-1A	618.60	8000-2931	41.00	2.52	616.08	7/2/15	0922
MW-1B	618.70	8000-2932	61.00	6.01	612.69	7/2/15	0955
MW-3	630.80	8000-8085	14.10			7/2/15	
MW-28C	674.40	8005-7101	12.90			7/2/15	
MW-28D	675.20	8005-7102	16.30			7/2/15	
MW-28E	677.00	8005-7103	27.30			7/2/15	

TECHNICIAN Bill F. Knarr, III DATE 7/2/15 QUARTER 3rd

GREEN VALLEY LANDFILL
GROUNDWATER ELEVATION DATA
2007006

Well	Top of Casing	AKGWA #	Total Depth of Well	Depth to Water	Groundwater Elevation	Date	Time
MW-1	617.80	8000-8086	14.80	~~5.20~~	~~612.60~~	~~7/7/15~~	
MW-1A	618.60	8000-2931	41.00				
MW-1B	618.70	8000-2932	61.00				
MW-3	630.80	8000-8085	14.10	5.20	625.60	7/7/15	0945
MW-28C	674.40	8005-7101	12.90	4.20	670.20	7/7/15	1205
MW-28D	675.20	8005-7102	16.30	4.90	670.30	7/7/15	1105
MW-28E	677.00	8005-7103	27.30	8.81	668.19	7/7/15	1135

TECHNICIAN Bill F. Knarr, III DATE 7/7/15 QUARTER 3rd

Keystone
LABORATORIES, INC.

MEMBER ACIL

July 24 2015

Chris Boyle
Pace Analytical-IN
7726 Moller Road
Indianapolis, IN 46268

RE: PAS Subcontract-CB
50122680

Enclosed are the results of analyses for samples received by the laboratory on 07/09/15 10:25. If you have any questions concerning this report, please feel free to contact me at 1-800-858-5227.

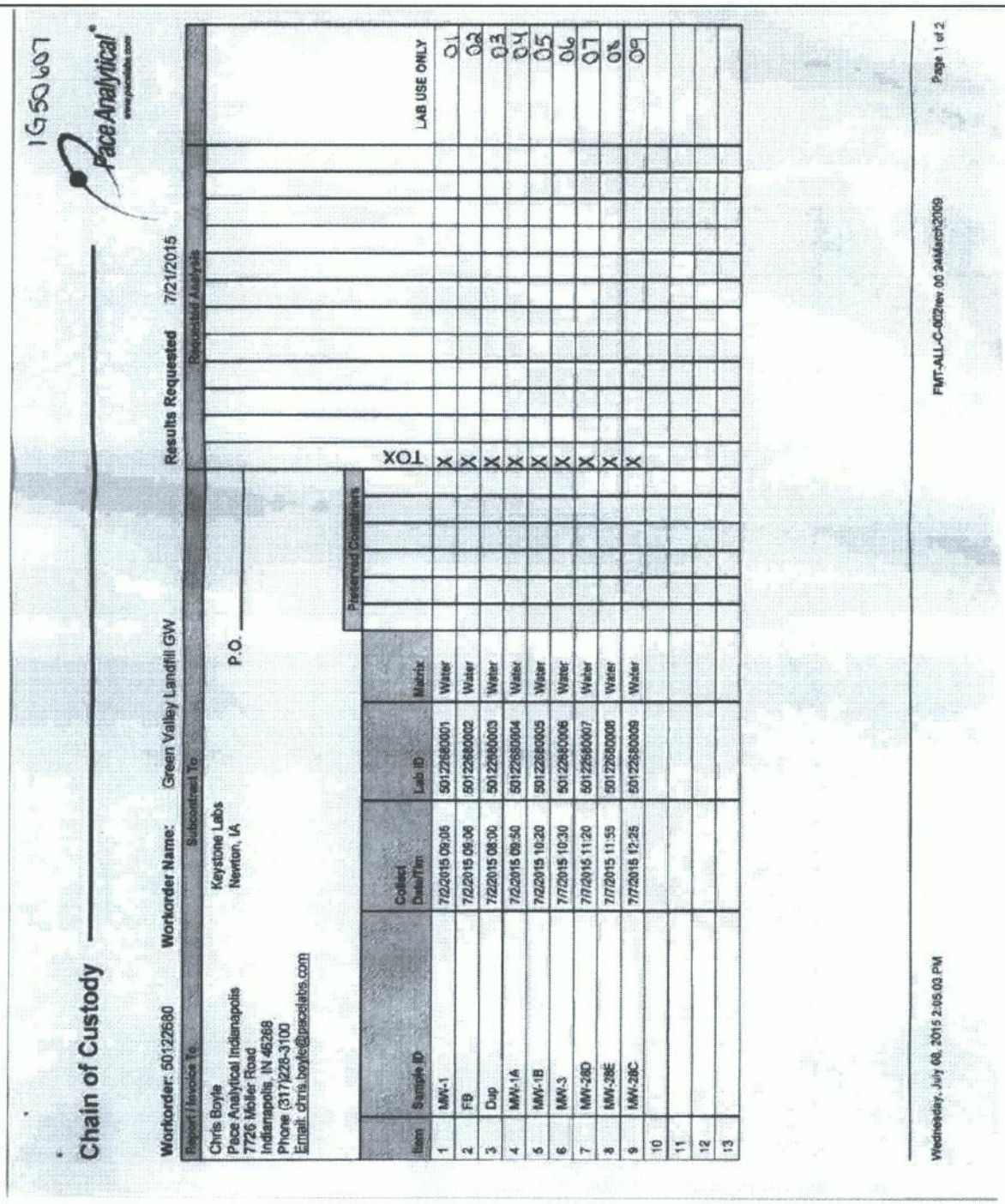
ANALYTICAL REPORT FOR SAMPLES

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
50122680001 MW-1	1G50607-01	Water	07/02/15 09:05	07/09/15 10:25
50122680002 FB	1G50607-02	Water	07/02/15 09:06	07/09/15 10:25
50122680003 Dup	1G50607-03	Water	07/02/15 08:00	07/09/15 10:25
50122680004 MW-1A	1G50607-04	Water	07/02/15 09:50	07/09/15 10:25
50122680005 MW-1B	1G50607-05	Water	07/02/15 10:20	07/09/15 10:25
50122680006 MW-3	1G50607-06	Water	07/07/15 10:30	07/09/15 10:25
50122680007 MW-28D	1G50607-07	Water	07/07/15 11:20	07/09/15 10:25
50122680008 MW-28E	1G50607-08	Water	07/07/15 11:55	07/09/15 10:25
50122680009 MW-28C	1G50607-09	Water	07/07/15 12:25	07/09/15 10:25

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This report must be reproduced in its entirety.

Phone 641-792-8451
600 East 17th Street South
Newton, IA 50208
Fax 641-792-9685

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29



Chain of Custody

Pace Analytical

Workorder: 50122680 Workorder Name: Green Valley Landfill GW Results Requested 7/21/2015

Report / Invoice To: Chris Boyle, Pace Analytical Indianapolis, 7726 Moller Road, Indianapolis, IN 46268, Phone (317)226-3100, Email: chris.boyle@pacelabs.com

Subcontract To: Keystone Labs, Newton, IA

P.O.

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Received Containers	TOX	LAB USE ONLY
1	MW-1	7/2/2015 09:05	50122680001	Water		X	01
2	FB	7/2/2015 08:06	50122680002	Water		X	02
3	Dup	7/2/2015 08:00	50122680003	Water		X	03
4	MW-1A	7/2/2015 09:50	50122680004	Water		X	04
5	MW-1B	7/2/2015 10:20	50122680005	Water		X	05
6	MW-3	7/7/2015 10:30	50122680006	Water		X	06
7	MW-26D	7/7/2015 11:20	50122680007	Water		X	07
8	MW-26E	7/7/2015 11:55	50122680008	Water		X	08
9	MW-26C	7/7/2015 12:25	50122680009	Water		X	09
10							
11							
12							
13							

Requested Analysis

Wednesday, July 08, 2015 2:05:03 PM

FMT-ALL-C-002rev 00 24March2009

Page 1 of 2

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7355

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

Transfers	Released By	Date/Time	Received By	Date/Time
1	[illegible]	7/15/15 1035	[illegible]	7/15/15 1035
2				
3				

Cooler Temperature on Receipt °C Custody Seal Y or N Received on ice Y or N Samples Intact Y or N

Comments

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC. document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Wednesday, July 08, 2015 2:05:04 PM

FMT-ALL-C-002rev.00 24March2009

Page 2 of 2

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7553

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

50122680001 MW-1

1G50607-01 (Water)

Date Sampled:7/2/2015 9:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
Total Organic Halogens (TOX)	ND	0.010	mg/L	1	1YG0878	07/23/15	07/24/15 07:21	EPA 9020	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7852

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

50122680002 FB

1G50607-02 (Water)

Date Sampled:7/2/2015 9:06:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
Total Organic Halogens (TOX)	ND	0.010	mg/L	1	1YG0878	07/23/15	07/24/15 07:21	EPA 9020	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7953

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

50122680003 Dup

1G50607-03 (Water)

Date Sampled:7/2/2015 8:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
Total Organic Halogens (TOX)	ND	0.010	mg/L	1	1YG0878	07/23/15	07/24/15 07:21	EPA 9020	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7953

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

50122680004 MW-1A

1G50607-04 (Water)

Date Sampled:7/2/2015 9:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
Total Organic Halogens (TOX)	ND	0.010	mg/L	1	1YG0878	07/23/15	07/24/15 07:21	EPA 9020	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7852

Keystone LABORATORIES, INC.

MEMBER ACIL

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

50122680005 MW-1B

1G50607-05 (Water)

Date Sampled:7/2/2015 10:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
Total Organic Halogens (TOX)	ND	0.010	mg/L	1	1YG0923	07/24/15	07/24/15 15:52	EPA 9020	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7959

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

50122680006 MW-3

1G50607-06 (Water)

Date Sampled:7/7/2015 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
Total Organic Halogens (TOX)	ND	0.010	mg/L	1	1YG0923	07/24/15	07/24/15 15:52	EPA 9020	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7553

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

50122680007 MW-28D

1G50607-07 (Water)

Date Sampled:7/7/2015 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
Total Organic Halogens (TOX)	**0.012**	0.010	mg/L	1	1YG0923	07/24/15	07/24/15 15:52	EPA 9020	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7852

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

50122680008 MW-28E

1G50607-08 (Water)

Date Sampled:7/7/2015 11:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
Total Organic Halogens (TOX)	ND	0.010	mg/L	1	1YG0923	07/24/15	07/24/15 15:52	EPA 9020	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-9273

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

50122680009 MW-28C

1G50607-09 (Water)

Date Sampled:7/7/2015 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Keystone Laboratories, Inc. - Newton									
Determination of Conventional Chemistry Parameters									
Total Organic Halogens (TOX)	**0.021**	0.010	mg/L	1	1YG0923	07/24/15	07/24/15 15:52	EPA 9020	

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-8456

Pace Analytical-IN	Project: PAS Subcontract-CB	Reported
7726 Moller Road	Project Number: 50122680	07/24/15 16:29
Indianapolis, IN 46268	Project Manager: Chris Boyle	

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1YG0878 - TOX/TX/EOX										
Blank (1YG0878-BLK1)				Prepared: 07/23/15 Analyzed: 07/24/15						
Total Organic Halogens (TOX)	ND	0.010	mg/L							
LCS (1YG0878-BS1)				Prepared: 07/23/15 Analyzed: 07/24/15						
Total Organic Halogens (TOX)	0.0981	0.010	mg/L	0.0946754		104	69-125			
LCS Dup (1YG0878-BSD1)				Prepared: 07/23/15 Analyzed: 07/24/15						
Total Organic Halogens (TOX)	0.0866	0.010	mg/L	0.0946754		91.4	69-125	12.5	21	
Reference (1YG0878-SRM1)				Prepared: 07/23/15 Analyzed: 07/24/15						
Total Organic Halogens (TOX)	0.1059	0.010	mg/L	0.0999912		106	90-110			
Reference (1YG0878-SRM2)				Prepared: 07/23/15 Analyzed: 07/24/15						
Total Organic Halogens (TOX)	lished acceptance l	0.010	mg/L	0.0999912		121	90-110			
Batch 1YG0923 - TOX/TX/EOX										
Blank (1YG0923-BLK1)				Prepared & Analyzed: 07/24/15						
Total Organic Halogens (TOX)	ND	0.010	mg/L							
LCS (1YG0923-BS1)				Prepared & Analyzed: 07/24/15						
Total Organic Halogens (TOX)	0.0952	0.010	mg/L	0.0946754		101	69-125			
LCS Dup (1YG0923-BSD1)				Prepared & Analyzed: 07/24/15						
Total Organic Halogens (TOX)	0.0963	0.010	mg/L	0.0946754		102	69-125	1.18	21	
Reference (1YG0923-SRM1)				Prepared & Analyzed: 07/24/15						
Total Organic Halogens (TOX)	0.1048	0.010	mg/L	0.0999912		105	90-110			

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This report must be reproduced in its entirety.

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7063

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

Determination of Conventional Chemistry Parameters - Quality Control

Keystone Laboratories, Inc. - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1YG0923 - TOX/TX/EOX										
Reference (1YG0923-SRM2)				Prepared & Analyzed: 07/24/15						
Total Organic Halogens (TOX)	0.1025	0.010	mg/L	0.0999912		102	90-110			

Certified Analyses Included in This Report

Method/Matrix	Analyte	Certifications
EPA 9020 in Water		
	Total Organic Halogens (TOX)	NELAC,KS-NT,SIA1X

Code	Certifying Authority	Certificate Number	Expires
KS-KC	Kansas Department of Health and Environment-KC	E-10110	09/30/2015
KS-NT	Kansas Department of Health and Environment	E-10287	10/31/2015
MO-KC	Missouri Department of Natural Resources	140	04/30/2015
NELAC	New Jersey Department of Environmental Protection	IA001	06/30/2015
SIA1X	Iowa Department of Natural Resources	95	02/01/2016

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This report must be reproduced in its entirety.

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7093

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

Notes and Definitions

C-20	The CCV recovery exceeded established acceptance limits. However, all samples were below the reporting limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-8456

Pace Analytical-IN 7726 Moller Road Indianapolis, IN 46268	Project: PAS Subcontract-CB Project Number: 50122680 Project Manager: Chris Boyle	Reported 07/24/15 16:29

Sue Thompson

Sue Thompson

Project Manager II

The results in this report apply to the samples analyzed in accordance with the Chain-of-Custody record. This report must be reproduced in its entirety.

Phone 641-792-8451

600 East 17th Street South
Newton, IA 50208

Fax 641-792-7989

GREEN VALLEY LANDFILL
GROUNDWATER ELEVATION DATA
2007006

Well	Top of Casing	AKGWA #	Total Depth of Well	Depth to Water	Groundwater Elevation	Date	Time
MW-1	617.80	8000-8086	14.80	4.60	613.20	7/2/15	0830
MW-1A	618.60	8000-2931	41.00	2.52	616.08	7/2/15	0922
MW-1B	618.70	8000-2932	61.00	6.01	612.69	7/2/15	0955
MW-3	630.80	8000-8085	14.10			7/2/15	
MW-28C	674.40	8005-7101	12.90			7/2/15	
MW-28D	675.20	8005-7102	16.30			7/2/15	
MW-28E	677.00	8005-7103	27.30			7/2/15	

TECHNICIAN Bill F. Knarr, III DATE 7/2/15 QUARTER 3rd

GREEN VALLEY LANDFILL
GROUNDWATER ELEVATION DATA
2007006

Well	Top of Casing	AKGWA #	Total Depth of Well	Depth to Water	Groundwater Elevation	Date	Time
MW-1	617.80	8000-8086	14.80	~~5.20~~	~~625.60~~	~~7/7/15~~	
MW-1A	618.60	8000-2931	41.00				
MW-1B	618.70	8000-2932	61.00				
MW-3	630.80	8000-8085	14.10	5.20	625.60	7/7/15	0945
MW-28C	674.40	8005-7101	12.90	4.20	670.20	7/7/15	1205
MW-28D	675.20	8005-7102	16.30	4.90	670.30	7/7/15	1105
MW-28E	677.00	8005-7103	27.30	8.81	668.19	7/7/15	1135

TECHNICIAN Bill F. Knarr, III **DATE** 7/7/15 **QUARTER** 3rd

KENVIRONS, INC.
452 Versailles Road
Frankfort, KY 40601
502-695-4357
502-695-4363 (fax)

Green Valley Landfill (2007006)

Well No.	Depth to water	Well Depth	AKGWA No.	Sample Collected		Well / Under Drain Dry	Insufficient Recharge
				YES	NO		
MW-1	4.60	14.80	8000-8086	☒	☐	☐	☐
MW-1A	2.52	41.00	8000-2931	☒	☐	☐	☐
MW-1B	6.01	61.00	8000-2932	☒	☐	☐	☐
MW-3		14.10	8000-8085	☐	☐	☐	☐
MW-28C		12.90	8000-2937	☐	☐	☐	☐
MW-28D		16.30	8000-2938	☐	☐	☐	☐
MW-28E		27.30	8000-2939	☐	☐	☐	☐
DUP		-	-				
FB		-	-				

Notes:

TECHNICIAN Bill F. Knarr, III DATE 7/2/15

KENVIRONS, INC.
452 Versailles Road
Frankfort, KY 40601
502-695-4357
502-695-4363 (fax)

Green Valley Landfill (2007006)

Well No.	Depth to water	Well Depth	AKGWA No.	Sample Collected		Well / Under Drain Dry	Insufficient Recharge
				YES	NO		
MW-1		14.80	8000-8086	☐	☐	☐	☐
MW-1A		41.00	8000-2931	☐	☐	☐	☐
MW-1B		61.00	8000-2932	☐	☐	☐	☐
MW-3	5.20.	14.10	8000-8085	☒	☐	☐	☐
MW-28C	4.20	12.90	8000-2937	☒	☐	☐	☐
MW-28D	4.90	16.30	~~8000-2938~~ 8005-7102	☒	☐	☐	☐
MW-28E	8.81	27.30	8000-2939	☒	☐	☐	☐
DUP		-	-				
FB		-	-				

Notes:

TECHNICIAN Bill F. Knarr, III DATE 7/7/15

KENVIRONS INC.,
GROUNDWATER FIELD LOG

Site Name: Green Valley Landfill	Well No.	Total Depth (ft)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date	Time	Project No.
	MW-1	14.80	4.60	10.20	7/2	0830	2007006

Site Location	AKGWA #	Casing Diameter	Measuring Point (ft. MSL)	Groundwater Elevation	Well Volume (gallons)	Z #
Greenup Co., KY	8000 - 8086	☒ 4" ☐ 2" Conversion fact. 4"- 0.67/2"- 0.16	617.80	613.20	6.83	—

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☐ Partly Cloudy ☒ Overcast ☐ Windy Temp. 75 (F) / C°)

Time	ET (min)	Depth to Water (ft)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Cont./Pres.	#
0844	0	4.60	100	0	15.29	79	4.11	6.87	—	12.6	GA- 40ml Vials HCL	
0847	3		100	.3	15.06	78	3.63	6.36	—	15.4	G- 40ml Vials HCL	
0850	6		100	.6	14.93	76	3.11	6.14	—	32.8	P-~~500~~ 250 ml HNO_3	1
0853	9		100	.9	14.81	75	3.15	6.03	—	35.7	P-500 ml H_2SO_4	
0856	12		100	1.2	14.70	75	2.99	5.93	—	79.0	P-500 ml Unp.	1
0859	15		100	1.5	14.67	72	3.03	5.88	—	6.6	P-1L Unp.	
0902	18	5.29	100	1.8	14.66	71	2.93	5.84	—	9.2	P-1L NaOH	
											P-1L NaOH + Zn A	
											P-120 ml Unp.	
											GA- 250 ml H_2SO_4	2
											GA- 250 ml H_3PO_4	
											GA- 500 ml H_2SO_4	
											GA- 1L Unp.	
											G- 1L Unp.	
											Comments	
For Three (3) Consecutive Readings			Required Purge	Actual Purge	+/- 1 (°C)	+/- 10%	+/- .3 (Mg/L)	+/- .10 SU	+/- 10% mV	+/- 10% unless <10 NTU		

Well Cond.	Pad Cond	Lock Funct.	Bladder Pump	Casing S.S. ☐ Casing PVC ☒	☒ Field Blank Collected Time: 0906
OK	weeds grown up	☒ Yes ☐ No	☒ Yes ☐ No	Filtered: ☐ Yes ☒ No	Split Sample ☐ Yes ☒ No With:

Sample Time	Depth to Water (ft)	Color	Odor	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Appearance
0905	5.29	None	None	14.66	71	2.93	5.84	—	9.2	clear

☐ Annual ☐ Semi-Annual ☒ Quarterly ☐ Monthly ☐ Other ☒ Duplicate Collected Time: 0915 DTW: 5.53

Sampler(s) Signature BEL & KTM **Date** 7/2/15

MONITORING WELL INTEGRITY FIELD SURVEY

Facility Name: Green Valley Landfill
Evaluator: BFK III
Evaluation Date: 7/2/15
Well Identification Number MW-1
AKGWA Number 8000-8086

	Y	N	NA	A
1) Is the well location appropriately shown on the facility permit/and or design drawing?	☑	☐	☐	▨
2) Are the wells in hard to find areas adequately flagged?	☒	☐	☐	▨
3) Is the elevation information correct?	☒	☐	☐	▨
Well Characteristics & Integrity				
4) Is the well ☒Aboveground? ☐Flush with the surface?	☒	☐	☐	▨
5) No physical damage to well?	☑	☐	☐	▨
6) Is the well labeled on the inside?	☐	☒	☐	▨
7) Is the well labeled on the outside?	☒	☐	☐	▨
8) Does the well have protective posts (if warranted)?	☒	☐	☐	▨
9) No evidence of ponded water around the well?	☒	☐	☐	▨
10) Do aboveground well have weep holes at the base of the protective cover?	☒	☐	☐	▨
11) Does the area around the well appear to be clean? (i.e., no mounds of waste; no dead animals?	☐	☒	☐	▨
12) Is the casing secure (attempt to move along perpendicular axes)?	☒	☐	☐	▨
13) Is the surface seal void of differential erosion around and under the base?	☒	☐	☐	▨
14) Is the surface seal free of cracks?	☒	☐	☐	▨
15) Is the surface seal slope to prevent ponding in the immediate vicinity of the of the surface seal?	☒	☐	☐	▨
16) Is the monitoring well locked to prevent unauthorized access?	☒	☐	☐	▨
17) Is the cap void of large gaps which would breach security?	☒	☐	☐	▨
18) Is the locking cap free of rust?	☐	☒	☐	▨

Comments: Weeds are grown up taller than the well.

NOTES: 1) Response box legend:
Y = YES
N = NO (A negative response must be identified as an "A" unless a comment is made that demonstrates compliance)
N/A = Not Applicable
2) Shaded boxes indicate that an issue and appropriate corrective action must be entered into CARS

KENVIRONS INC.,
GROUNDWATER FIELD LOG

Site Name: Green Valley Landfill	Well No.	Total Depth (ft)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date	Time	Project No.
	MW-1A	41.00	2.52	38.48	7/2	0922	2007006

Site Location	AKGWA #	Casing Diameter	Measuring Point (ft. MSL)	Groundwater Elevation	Well Volume (gallons)	Z #
Greenup Co., KY	8000-2931	☒ 4" ☐ 2" Conversion fact. 4"- 0.67/2"- 0.16	618.60	616.08	25.78	—

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☐ Partly Cloudy ☒ Overcast ☐ Windy Temp. 75 (F)/ C°)

Time	ET (min)	Depth to Water (ft)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Cont./Pres.	#
0929	0	2.52	100	0	13.15	370	4.66	6.22	—	23.8	GA- 40ml Vials HCL	
0932	3		100	.3	13.18	375	4.21	6.52	—	28.2	G- 40ml Vials HCL	
0935	6		100	.6	13.14	376	3.24	6.68	—	59.8	P-~~500~~ 250 ml HNO_3	1
0938	9		100	.9	13.13	377	3.49	6.80	—	32.4	P-500 ml H_2SO_4	
0941	12		100	1.2	13.11	376	2.81	6.86	—	9.8	P-500 ml Unp.	1
0944	15		100	1.5	13.10	377	3.31	6.91	—	34.3	P-1L Unp.	
0947	18	3.55	100	1.8	13.10	377	4.11	6.95	—	73.4	P-1L NaOH	
											P-1L NaOH + Zn A	
											P-120 ml Unp.	
											GA- 250 ml H_2SO_4	2
											GA- 250 ml H_3PO_4	
											GA- 500 ml H_2SO_4	
											GA- 1L Unp.	
											G- 1L Unp.	
											Comments	
For Three (3) Consecutive Readings			Required Purge	Actual Purge	+/- 1 (°C)	+/- 10%	+/- .3 (Mg/L)	+/- .10 SU	+/- 10% mV	+/- 10% unless <10 NTU		

Well Cond.	Pad Cond	Lock Funct.	Bladder Pump	Casing S.S. ☐ Casing PVC ☒	☐ Field Blank Collected Time:
OK	weeds grown up	☒ Yes ☐ No	☒ Yes ☐ No	Filtered: ☐ Yes ☒ No	Split Sample ☐ Yes ☒ No With:

Sample Time	Depth to Water (ft)	Color	Odor	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Appearance
0950	3.55	Gray	None	13.10	377	4.11	6.95	—	73.4	Cloudy

☐ Annual ☐ Semi-Annual ☒ Quarterly ☐ Monthly ☐ Other ☐ Duplicate Collected Time: DTW:

Sampler(s) Signature BDD E. K JM **Date** 7/2/15

MONITORING WELL INTEGRITY FIELD SURVEY

Facility Name: Green Valley Landfill
Evaluator: BFK III
Evaluation Date: 7/2/15
Well Identification Number MW-19
AKGWA Number 8000-2931

	Y	N	NA	A
1) Is the well location appropriately shown on the facility permit/and or design drawing?	☒	☐	☐	☐
2) Are the wells in hard to find areas adequately flagged?	☒	☐	☐	☐
3) Is the elevation information correct?	☒	☐	☐	☐
Well Characteristics & Integrity				
4) Is the well ☒Aboveground? ☐Flush with the surface?	☒	☐	☐	☐
5) No physical damage to well?	☒	☐	☐	☐
6) Is the well labeled on the inside?	☒	☐	☐	☐
7) Is the well labeled on the outside?	☒	☐	☐	☐
8) Does the well have protective posts (if warranted)?	☒	☐	☐	☐
9) No evidence of ponded water around the well?	☒	☐	☐	☐
10) Do aboveground well have weep holes at the base of the protective cover?	☒	☐	☐	☐
11) Does the area around the well appear to be clean? (i.e., no mounds of waste; no dead animals?	☐	☒	☐	☐
12) Is the casing secure (attempt to move along perpendicular axes)?	☒	☐	☐	☐
13) Is the surface seal void of differential erosion around and under the base?	☒	☐	☐	☐
14) Is the surface seal free of cracks?	☒	☐	☐	☐
15) Is the surface seal slope to prevent ponding in the immediate vicinity of the of the surface seal?	☒	☐	☐	☐
16) Is the monitoring well locked to prevent unauthorized access?	☒	☐	☐	☐
17) Is the cap void of large gaps which would breach security?	☒	☐	☐	☐
18) Is the locking cap free of rust?	☐	☒	☐	☐

Comments: Weeds are grown up taller than well.

NOTES: 1) Response box legend:
Y = YES
N = NO (A negative response must be identified as an "A" unless a comment is made that demonstrates compliance)
N/A = Not Applicable
2) Shaded boxes indicate that an issue and appropriate corrective action must be entered into CARS

KENVIRONS INC.,
GROUNDWATER FIELD LOG

Site Name: Green Valley Landfill	Well No. MW-1B	Total Depth (ft) 61.00	Initial Depth to Water (ft.) 6.01	Height of Water Column (ft.) 54.99	Date 7/2	Time 0955	Project No. 2007006
Site Location Greenup Co., KY	AKGWA # 8000-2932	Casing Diameter ☒ 4" ☐ 2" Conversion fact. 4"- 0.67/2"- 0.16	Measuring Point (ft. MSL) 618.70	Groundwater Elevation 612.69	Well Volume (gallons) 36.84		Z # —

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☐ Partly Cloudy ☒ Overcast ☐ Windy Temp. 75 (F° C°)

Time	ET (min)	Depth to Water (ft)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Cont./Pres.	#
1000	0	6.01	100	0	13.14	576	4.22	7.06	—	1.2	GA- 40ml Vials HCL	
1003	3		100	.3	13.10	627	3.16	7.08	—	16.8	G- 40ml Vials HCL	
1006	6		100	.6	13.12	644	3.70	7.18	—	17.9	P-~~500~~ 250 ml HNO_3	1
1009	9		100	.9	13.13	651	3.21	7.30	—	17.1	P-500 ml H_2SO_4	
1012	12		100	1.2	13.11	653	2.57	7.37	—	16.3	P-500 ml Unp.	1
1015	15		100	1.5	13.12	655	0.34	7.41	—	16.1	P-1L Unp.	
1018	18	8.64	100	1.8	13.15	655	2.02	7.45	—	16.1	P-1L NaOH	
											P-1L NaOH + Zn A	
											P-120 ml Unp.	
											GA- 250 ml H_2SO_4	2
											GA- 250 ml H_3PO_4	
											GA- 500 ml H_2SO_4	
											GA- 1L Unp.	
											G- 1L Unp.	
											Comments	
For Three (3) Consecutive Readings			Required Purge	Actual Purge	+/- 1 (°C)	+/- 10%	+/- .3 (Mg/L)	+/- .10 SU	+/- 10% mV	+/- 10% unless <10 NTU		

Well Cond.	Pad Cond	Lock Funct.	Bladder Pump	Casing S.S. ☐ Casing PVC ☒	☐ Field Blank Collected Time:
OK	weeds grown up	☒ Yes ☐ No	☒ Yes ☐ No	Filtered: ☐ Yes ☒ No	Split Sample ☐ Yes ☒ No With:

Sample Time	Depth to Water (ft)	Color	Odor	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Appearance
1020	8.64	None	None	13.15	655	2.02	7.45	—	16.1	clear

☐ Annual ☐ Semi-Annual ☒ Quarterly ☐ Monthly ☐ Other ☐ Duplicate Collected Time: DTW:

Sampler(s) Signature BTB & KTH **Date** 7/2/15

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MONITORING WELL INTEGRITY FIELD SURVEY

Facility Name: Green Valley Landfill
Evaluator: BFK III
Evaluation Date: 7/2/15
Well Identification Number MW-1B
AKGWA Number 8000-2932

	Y	N	NA	A
1) Is the well location appropriately shown on the facility permit/and or design drawing?	☒	☐	☐	▨
2) Are the wells in hard to find areas adequately flagged?	☒	☐	☐	▨
3) Is the elevation information correct?	☒	☐	☐	▨
Well Characteristics & Integrity				
4) Is the well ☒Aboveground? ☐Flush with the surface?	☒	☐	☐	▨
5) No physical damage to well?	☒	☐	☐	▨
6) Is the well labeled on the inside?	☒	☐	☐	▨
7) Is the well labeled on the outside?	☒	☐	☐	▨
8) Does the well have protective posts (if warranted)?	☒	☐	☐	▨
9) No evidence of ponded water around the well?	☒	☐	☐	▨
10) Do aboveground well have weep holes at the base of the protective cover?	☒	☐	☐	▨
11) Does the area around the well appear to be clean? (i.e., no mounds of waste; no dead animals?	☐	☒	☐	▨
12) Is the casing secure (attempt to move along perpendicular axes)?	☒	☐	☐	▨
13) Is the surface seal void of differential erosion around and under the base?	☒	☐	☐	▨
14) Is the surface seal free of cracks?	☒	☐	☐	▨
15) Is the surface seal slope to prevent ponding in the immediate vicinity of the of the surface seal?	☒	☐	☐	▨
16) Is the monitoring well locked to prevent unauthorized access?	☒	☐	☐	▨
17) Is the cap void of large gaps which would breach security?	☒	☐	☐	▨
18) Is the locking cap free of rust?	☐	☒	☐	▨

Comments: weeds are grown up taller than well.

NOTES: 1) Response box legend:
Y = YES
N = NO (A negative response must be identified as an "A" unless a comment is made that demonstrates compliance)
N/A = Not Applicable
2) Shaded boxes indicate that an issue and appropriate corrective action must be entered into CARS

KENVIRONS INC.,
GROUNDWATER FIELD LOG

Site Name: Green Valley Landfill	Well No. MW-3	Total Depth (ft) 14.10	Initial Depth to Water (ft.) 5.20	Height of Water Column (ft.) 8.90	Date 7/7	Time 0945	Project No. 2007006
Site Location Greenup Co., KY	AKGWA # 8000 - 8085	Casing Diameter ☒ 4" ☐ 2" Conversion fact. 4"- 0.67/2"- 0.16	Measuring Point (ft. MSL) 630.80	Groundwater Elevation 625.60	Well Volume (gallons) 5.96 ~~1.42~~		Z # —

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☒ Partly Cloudy ☐ Overcast ☐ Windy Temp. 77 (F° / C°)

Time	ET (min)	Depth to Water (ft)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Cont./Pres.	#
0957	0	5.20	100	0	20.27	297	8.73	6.74	—	—	GA- 40ml Vials HCL	
1000	3		100	.3	18.82	292	5.48	4.68	—	—	G- 40ml Vials HCL	
1003	6		100	.6	18.64	288	3.73	4.61	—	—	P-500 ml HNO_3	
1006	9		100	.9	18.38	287	3.12	4.78	—	—	P-500 ml H_2SO_4	
1009	12		100	1.2	18.68	288	2.50	5.13	—	—	P-500 ml Unp.	
1012	15		100	1.5	18.52	289	2.06	5.35	—	—	P-1L Unp.	
1015	18		100	1.8	18.18	292	3.43	5.20	—	—	P-1L NaOH	
1018	21		100	2.1	18.81	291	1.39	5.53	—	—	P-1L NaOH + Zn A	
1021	24		100	2.4	18.55	297	2.71	5.62	—	—	P-120 ml Unp.	
1024	27		100	2.7	19.00	300	3.85	5.68	—	—	GA- 250 ml H_2SO_4	
1027	30	5.40	100	3.0	18.68	300	2.12	5.70	—	—	GA- 250 ml H_3PO_4	
											GA- 500 ml H_2SO_4	
											GA- 1L Unp.	
											G- 1L Unp.	
											Comments	
											Turbidity meter malfunction. Lab to run turbidity.	
For Three (3) Consecutive Readings			Required Purge	Actual Purge	+/- 1 (°C)	+/- 10%	+/- .3 (Mg/L)	+/- .10 SU	+/- 10% mV	+/- 10% unless <10 NTU		

Well Cond.	Pad Cond	Lock Funct.	Bladder Pump	Casing S.S. ☐ Casing PVC ☒	☐ Field Blank Collected Time:
OK	Weeds grown up	☒ Yes ☐ No	☒ Yes ☐ No	Filtered: ☐ Yes ☒ No	Split Sample ☐ Yes ☒ No With:

Sample Time	Depth to Water (ft)	Color	Odor	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Appearance
1030	5.40	None	None	18.68	300	2.12	5.70	—	—	Clear

☐ Annual ☐ Semi-Annual ☒ Quarterly ☐ Monthly ☐ Other ☐ Duplicate Collected Time: DTW:

Sampler(s) Signature BLP K TM **Date** 7/7/15

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MONITORING WELL INTEGRITY FIELD SURVEY

Facility Name: Green Valley Landfill
Evaluator: BFK III
Evaluation Date: 7/7/15
Well Identification Number mw-3
AKGWA Number 8000-8085

	Y	N	NA	A
1) Is the well location appropriately shown on the facility permit/and or design drawing?	☒	☐	☐	☐
2) Are the wells in hard to find areas adequately flagged?	☒	☐	☐	☐
3) Is the elevation information correct?	☒	☐	☐	☐
Well Characteristics & Integrity				
4) Is the well ☒Aboveground? ☐Flush with the surface?	☒	☐	☐	☐
5) No physical damage to well?	☒	☐	☐	☐
6) Is the well labeled on the inside?	☒	☐	☐	☐
7) Is the well labeled on the outside?	☒	☐	☐	☐
8) Does the well have protective posts (if warranted)?	☒	☐	☐	☐
9) No evidence of ponded water around the well?	☒	☐	☐	☐
10) Do aboveground well have weep holes at the base of the protective cover?	☒	☐	☐	☐
11) Does the area around the well appear to be clean? (i.e., no mounds of waste; no dead animals?	☐	☒	☐	☐
12) Is the casing secure (attempt to move along perpendicular axes)?	☒	☐	☐	☐
13) Is the surface seal void of differential erosion around and under the base?	☒	☐	☐	☐
14) Is the surface seal free of cracks?	☒	☐	☐	☐
15) Is the surface seal slope to prevent ponding in the immediate vicinity of the of the surface seal?	☒	☐	☐	☐
16) Is the monitoring well locked to prevent unauthorized access?	☒	☐	☐	☐
17) Is the cap void of large gaps which would breach security?	☒	☐	☐	☐
18) Is the locking cap free of rust?	☐	☒	☐	☐

Comments: Weeds are grown up above well. Well & posts need repainted.

NOTES: 1) Response box legend:
Y = YES
N = NO (A negative response must be identified as an "A" unless a comment is made that demonstrates compliance)
N/A = Not Applicable
2) Shaded boxes indicate that an issue and appropriate corrective action must be entered into CARS

KENVIRONS INC.,
GROUNDWATER FIELD LOG

Site Name: Green Valley Landfill	Well No. MW-28C	Total Depth (ft) 12.90	Initial Depth to Water (ft.) 4.20	Height of Water Column (ft.) 8.70	Date 7/7	Time 1205	Project No. 2007006
Site Location Greenup Co., KY	AKGWA # 8005 - 7101	Casing Diameter ☒ 4" ☐ 2" Conversion fact. 4"- 0.67/2"- 0.16	Measuring Point (ft. MSL) 674.40	Groundwater Elevation 670.20	Well Volume (gallons) 5.82		Z # —

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☒ Partly Cloudy ☐ Overcast ☐ Windy Temp. 77 (F°) C°)

Time	ET (min)	Depth to Water (ft)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Cont./Pres.	#
1208	0	4.20	100	0	21.21	365	6.27	6.30	—	—	GA- 40ml Vials HCL	
1211	3		100	.3	18.05	428	2.41	5.19	—	—	G- 40ml Vials HCL	
1214	6		100	.6	17.68	433	1.18	5.05	—	—	P-500 ml HNO_3	
1217	9		100	.9	17.76	433	0.86	5.02	—	—	P-500 ml H_2SO_4	
1220	12	4.80	100	1.2	17.95	434	0.77	5.00	—	—	P-500 ml Unp.	
											P-1L Unp.	
											P-1L NaOH	
											P-1L NaOH + Zn A	
											P-120 ml Unp.	
											GA- 250 ml H_2SO_4	
											GA- 250 ml H_3PO_4	
											GA- 500 ml H_2SO_4	
											GA- 1L Unp.	
											G- 1L Unp.	
											Comments	
											Turbidity meter malfunction- Lab to run turbidity.	
For Three (3) Consecutive Readings			Required Purge	Actual Purge	+/- 1 (°C)	+/- 10%	+/- .3 (Mg/L)	+/- .10 SU	+/- 10% mV	+/- 10% unless <10 NTU		

Well Cond.	Pad Cond	Lock Funct.	Bladder Pump	Casing S.S. ☐ Casing PVC ☒	☐ Field Blank Collected Time:
OK	Weeds growing up	☒ Yes ☐ No	☒ Yes ☐ No	Filtered: ☐ Yes ☒ No	Split Sample ☐ Yes ☒ No With:

Sample Time	Depth to Water (ft)	Color	Odor	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Appearance
1225	4.80	Orange	slight	17.95	434	0.77	5.00	—	—	cloudy

☐ Annual	☐ Semi-Annual	☒ Quarterly	☐ Monthly	☐ Other	☐ Duplicate Collected Time: DTW:

Sampler(s) Signature B. Ell E K M **Date** 7/7/15

MONITORING WELL INTEGRITY FIELD SURVEY

Facility Name: Green Valley Landfill
Evaluator: BFK III
Evaluation Date: 7/7/15
Well Identification Number MW-28C
AKGWA Number 8005-7101

	Y	N	NA	A
1) Is the well location appropriately shown on the facility permit/and or design drawing?	☒	☐	☐	☐
2) Are the wells in hard to find areas adequately flagged?	☒	☐	☐	☐
3) Is the elevation information correct?	☒	☐	☐	☐
Well Characteristics & Integrity				
4) Is the well ☒Aboveground?☐Flush with the surface?	☒	☐	☐	☐
5) No physical damage to well?	☒	☐	☐	☐
6) Is the well labeled on the inside?	☐	☒	☐	☐
7) Is the well labeled on the outside?	☒	☐	☐	☐
8) Does the well have protective posts (if warranted)?	☒	☐	☐	☐
9) No evidence of ponded water around the well?	☒	☐	☐	☐
10) Do aboveground well have weep holes at the base of the protective cover?	☒	☐	☐	☐
11) Does the area around the well appear to be clean? (i.e., no mounds of waste; no dead animals?	☐	☒	☐	☐
12) Is the casing secure (attempt to move along perpendicular axes)?	☒	☐	☐	☐
13) Is the surface seal void of differential erosion around and under the base?	☒	☐	☐	☐
14) Is the surface seal free of cracks?	☒	☐	☐	☐
15) Is the surface seal slope to prevent ponding in the immediate vicinity of the of the surface seal?	☒	☐	☐	☐
16) Is the monitoring well locked to prevent unauthorized access?	☒	☐	☐	☐
17) Is the cap void of large gaps which would breach security?	☒	☐	☐	☐
18) Is the locking cap free of rust?	☐	☒	☐	☐

Comments: Weeds grown up taller than well. Well & posts need painted.

NOTES: 1) Response box legend:
Y = YES
N = NO (A negative response must be identified as an "A" unless a comment is made that demonstrates compliance)
N/A = Not Applicable
2) Shaded boxes indicate that an issue and appropriate corrective action must be entered into CARS

KENVIRONS INC.,
GROUNDWATER FIELD LOG

Site Name: Green Valley Landfill	Well No.	Total Depth (ft)	Initial Depth to Water (ft.)	Height of Water Column (ft.)	Date	Time	Project No.
	MW-28D	16.30	4.90	11.40	7/7	1105	2007006

Site Location	AKGWA #	Casing Diameter	Measuring Point (ft. MSL)	Groundwater Elevation	Well Volume (gallons)	Z #
Greenup Co., KY	8005-7102	☒ 4" ☐ 2" Conversion fact. 4"- 0.67/2"- 0.16	675.20	670.30	7.63	—

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☒ Partly Cloudy ☐ Overcast ☐ Windy Temp. 77 (F° / C°)

Time	ET (min)	Depth to Water (ft)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Cont./Pres.	#
1109	0	4.90	100	0	24.01	693	5.34	5.93	—	—	GA- 40ml Vials HCL	
1112	3		100	.3	22.18	698	2.91	5.69	—	—	G- 40ml Vials HCL	
1115	6		100	.6	21.60	700	1.93	5.70	—	—	P-500 ml HNO_3	
1118	9		100	.9	21.42	701	1.34	5.71	—	—	P-500 ml H_2SO_4	
											P-500 ml Unp.	
											P-1L Unp.	
											P-1L NaOH	
											P-1L NaOH + Zn A	
											P-120 ml Unp.	
											GA- 250 ml H_2SO_4	
											GA- 250 ml H_3PO_4	
											GA- 500 ml H_2SO_4	
											GA- 1L Unp.	
											G- 1L Unp.	
											Comments	
											Turbidity meter malfunction. Lab to run turbidity.	
For Three (3) Consecutive Readings			Required Purge	Actual Purge	+/- 1 (°C)	+/- 10%	+/- .3 (Mg/L)	+/- .10 SU	+/- 10% mV	+/- 10% unless <10 NTU		

Well Cond.	Pad Cond	Lock Funct.	Bladder Pump	Casing S.S. ☐ Casing PVC ☒	☐ Field Blank Collected Time:
OK	weeds grown up	☒ Yes ☐ No	☒ Yes ☐ No	Filtered: ☐ Yes ☒ No	Split Sample ☐ Yes ☒ No With:

Sample Time	Depth to Water (ft)	Color	Odor	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Appearance
1120	5.18	~~clear~~ orange	None	21.42	701	1.34	5.71	—	—	~~clear~~ cloudy

☐ Annual ☐ Semi-Annual ☒ Quarterly ☐ Monthly ☐ Other ☐ Duplicate Collected Time: DTW:

Sampler(s) Signature BOP E K M **Date** 7/7/15

MONITORING WELL INTEGRITY FIELD SURVEY

Facility Name: Green Valley Landfill

Evaluator: BFK III

Evaluation Date: 7/7/15

Well Identification Number MW-28D

AKGWA Number 8005-7102

	Y	N	NA	A
1) Is the well location appropriately shown on the facility permit/and or design drawing?	☒	☐	☐	☐
2) Are the wells in hard to find areas adequately flagged?	☒	☐	☐	☐
3) Is the elevation information correct?	☒	☐	☐	☐
Well Characteristics & Integrity				
4) Is the well ☒Aboveground? ☐Flush with the surface?	☒	☐	☐	☐
5) No physical damage to well?	☒	☐	☐	☐
6) Is the well labeled on the inside?	☐	☒	☐	☐
7) Is the well labeled on the outside?	☒	☐	☐	☐
8) Does the well have protective posts (if warranted)?	☒	☐	☐	☐
9) No evidence of ponded water around the well?	☒	☐	☐	☐
10) Do aboveground well have weep holes at the base of the protective cover?	☒	☐	☐	☐
11) Does the area around the well appear to be clean? (i.e., no mounds of waste; no dead animals?	☐	☒	☐	☐
12) Is the casing secure (attempt to move along perpendicular axes)?	☒	☐	☐	☐
13) Is the surface seal void of differential erosion around and under the base?	☒	☐	☐	☐
14) Is the surface seal free of cracks?	☒	☐	☐	☐
15) Is the surface seal slope to prevent ponding in the immediate vicinity of the of the surface seal?	☒	☐	☐	☐
16) Is the monitoring well locked to prevent unauthorized access?	☒	☐	☐	☐
17) Is the cap void of large gaps which would breach security?	☒	☐	☐	☐
18) Is the locking cap free of rust?	☐	☒	☐	☐

Comments: weeds grown up taller than well. well & posts need painted.

NOTES: 1) Response box legend:

Y = YES
N = NO (A negative response must be identified as an "A" unless a comment is made that demonstrates compliance)
N/A = Not Applicable

2) Shaded boxes indicate that an issue and appropriate corrective action must be entered into CARS

KENVIRONS INC.,
GROUNDWATER FIELD LOG

Site Name: Green Valley Landfill	Well No. MW-28E	Total Depth (ft) 27.30	Initial Depth to Water (ft.) 8.81	Height of Water Column (ft.) 18.49	Date 7/7	Time 1135	Project No. 2007006
Site Location Greenup Co., KY	AKGWA # 8005 - 7103	Casing Diameter ☒ 4" ☐ 2" Conversion fact. 4"- 0.67/2"- 0.16	Measuring Point (ft. MSL) 677.00	Groundwater Elevation 668.19	Well Volume (gallons) 12.38		Z # —

☐ Rain ☐ Sleet/Freezing Rain ☐ Snow ☐ Fog ☐ Clear ☒ Partly Cloudy ☐ Overcast ☐ Windy Temp. 77 (F°/ C°)

Time	ET (min)	Depth to Water (ft)	Purge Rate ml/min	Volume Purged (L)	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Cont./Pres.	#
1141	0	8.81	100	0	24.85	326	7.27	6.25	—	—	GA- 40ml Vials HCL	
1144	3		100	.3	19.75	289	4.16	6.31	—	—	G- 40ml Vials HCL	
1147	6		100	.6	19.10	285	2.76	6.33	—	—	P-500 ml HNO_3	
1150	9	9.21	100	.9	19.38	284	2.50	6.34	—	—	P-500 ml H_2SO_4	
											P-500 ml Unp.	
											P-1L Unp.	
											P-1L NaOH	
											P-1L NaOH + Zn A	
											P-120 ml Unp.	
											GA- 250 ml H_2SO_4	
											GA- 250 ml H_3PO_4	
											GA- 500 ml H_2SO_4	
											GA- 1L Unp.	
											G- 1L Unp.	
											Comments	
											Turbidity meter malfunction. Lab to run turbidity.	
For Three (3) Consecutive Readings			Required Purge	Actual Purge	+/- 1 (°C)	+/- 10%	+/- .3 (Mg/L)	+/- .10 SU	+/- 10% mV	+/- 10% unless <10 NTU		

Well Cond.	Pad Cond	Lock Funct.	Bladder Pump	Casing S.S. ☐ Casing PVC ☒	☐ Field Blank Collected Time:
OK	weeds around	☒ Yes ☐ No	☒ Yes ☐ No	Filtered: ☐ Yes ☒ No	Split Sample ☐ Yes ☒ No With:

Sample Time	Depth to Water (ft)	Color	Odor	Temp (°C)	Sp. Cond (µS or mS)	DO (mg/L)	pH (SU)	eH/ORP (mV)	Turbidity (ntu)	Appearance
1155	9.21	None	None	19.38	284	2.50	6.34	—	—	Clear

☐ Annual ☐ Semi-Annual ☒ Quarterly ☐ Monthly ☐ Other ☐ Duplicate Collected Time: DTW:

Sampler(s) Signature B.Q E. K TM **Date** 7/7/15

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MONITORING WELL INTEGRITY FIELD SURVEY

Facility Name: Green Valley Landfill
Evaluator: BFK III
Evaluation Date: 7/7/15
Well Identification Number MW-28E
AKGWA Number 8005-7103

	Y	N	NA	A
1) Is the well location appropriately shown on the facility permit/and or design drawing?	☒	☐	☐	☐
2) Are the wells in hard to find areas adequately flagged?	☒	☐	☐	☐
3) Is the elevation information correct?	☒	☐	☐	☐
Well Characteristics & Integrity				
4) Is the well ☒Aboveground?☐Flush with the surface?	☒	☐	☐	☐
5) No physical damage to well?	☒	☐	☐	☐
6) Is the well labeled on the inside?	☐	☒	☐	☐
7) Is the well labeled on the outside?	☒	☐	☐	☐
8) Does the well have protective posts (if warranted)?	☒	☐	☐	☐
9) No evidence of ponded water around the well?	☒	☐	☐	☐
10) Do aboveground well have weep holes at the base of the protective cover?	☒	☐	☐	☐
11) Does the area around the well appear to be clean? (i.e., no mounds of waste; no dead animals?	☐	☒	☐	☐
12) Is the casing secure (attempt to move along perpendicular axes)?	☒	☐	☐	☐
13) Is the surface seal void of differential erosion around and under the base?	☒	☐	☐	☐
14) Is the surface seal free of cracks?	☒	☐	☐	☐
15) Is the surface seal slope to prevent ponding in the immediate vicinity of the of the surface seal?	☒	☐	☐	☐
16) Is the monitoring well locked to prevent unauthorized access?	☒	☐	☐	☐
17) Is the cap void of large gaps which would breach security?	☒	☐	☐	☐
18) Is the locking cap free of rust?	☐	☒	☐	☐

Comments: Weeds are grown up taller than well. Well & posts need painted

NOTES: 1) Response box legend:
Y = YES
N = NO (A negative response must be identified as an "A" unless a comment is made that demonstrates compliance)
N/A = Not Applicable
2) Shaded boxes indicate that an issue and appropriate corrective action must be entered into CARS

Green Valley
Signage Evaluation

Monitoring Wells	Sign Present	Condition			Comments
		Good	Fair	Poor	
MW - 1	☒Y ☐N	☒	☐	☐	
MW - 1A	☒Y ☐N	☒	☐	☐	
MW - 1B	☒Y ☐N	☒	☐	☐	
MW - 3	☐Y ☐N	☐	☐	☐	
MW - 28C	☐Y ☐N	☐	☐	☐	
MW - 28D	☐Y ☐N	☐	☐	☐	
MW - 28E	☐Y ☐N	☐	☐	☐	
KPDES Discharges					
Discharge 001	☐Y ☒N	☐	☐	☐	
Discharge 003	☐Y ☒N	☐	☐	☐	
Surface Waters					
SW - 1A	☐Y ☒N	☐	☐	☐	
SW - 2	☒Y ☐N	☐	☐	☒	
SW - 3	☐Y ☒N	☐	☐	☐	
SW - 4	☒Y ☐N	☐	☐	☒	
SW - 5	☐Y ☒N	☐	☐	☐	
SW - 6	☐Y ☒N	☐	☐	☐	

Green Valley
Signage Evaluation

Monitoring Wells	Sign Present	Condition			Comments
		Good	Fair	Poor	
MW - 1	☐Y ☐N	☐	☐	☐	
MW - 1A	☐Y ☐N	☐	☐	☐	
MW - 1B	☐Y ☐N	☐	☐	☐	
MW - 3	☐Y ☒N	☐	☐	☐	
MW - 28C	☐Y ☒N	☐	☐	☐	
MW - 28D	☐Y ☒N	☐	☐	☐	
MW - 28E	☐Y ☒N	☐	☐	☐	
KPDES Discharges					
Discharge 001	☐Y ☐N	☐	☐	☐	
Discharge 003	☐Y ☐N	☐	☐	☐	
Surface Waters					
SW - 1A	☐Y ☐N	☐	☐	☐	
SW - 2	☐Y ☐N	☐	☐	☐	
SW - 3	☐Y ☐N	☐	☐	☐	
SW - 4	☐Y ☐N	☐	☐	☐	
SW - 5	☐Y ☐N	☐	☐	☐	
SW - 6	☐Y ☐N	☐	☐	☐	