TECHNICAL MEMORANDUM

LANDAU ASSOCIATES
ENVIRONMENTAL | GEOTECHNICAL | NATURAL RESOURCES

TO: Marv Coleman, Washington State Department of Ecology

cc: Calvin D. Taylor, L.Hg., Environmental Services, City of Tacoma

FROM: Lauren Knickrehm, E.I.T. and Eric Weber, L.Hg.

DATE: January 15, 2014

RE: STATUS REPORT NO. 5
FORMER SAURO'S CLEANERAMA SITE
TACOMA, WASHINGTON
SITE ID 4339824

INTRODUCTION

On behalf of the City of Tacoma (City), Landau Associates is providing Groundwater Monitoring Status Report No. 5, which covers final Remedial Investigation (RI) groundwater monitoring activities conducted in June, September, and November 2013. The City has been conducting quarterly groundwater monitoring activities in the vicinity of the former Sauro's Cleanerama site (site) since 2010 as part of a RI associated with releases of tetrachloroethene (PCE) to soil and groundwater. The RI is being conducted under an Agreed Order (No. DE 4283) with the Washington State Department of Ecology (Ecology) dated March 19, 2009. In June and September 2013, the City conducted the third and fourth quarterly monitored natural attenuation (MNA) and volatile organic compound (VOC) groundwater data collection events for 2013[1]. These are the last two regular sampling events conducted as part of the RI. In November 2013, Landau Associates also conducted planned direct-push drilling work along Dock Street and South 15th Street.

QUARTERLY GROUNDWATER MONITORING PROGRAM SUMMARY

The existing site groundwater monitoring well network includes a total of 15 RI wells and two wells installed for a separate project along Dock Street and East 15th Street (Figure 1). Of the 15 RI wells, 10 well locations have been sampled quarterly as part of an ongoing VOC monitoring program since 2010. The other five RI wells are not sampled for VOCs due to dry conditions at the well (MW-3) or previous sampling data that indicate the well was not impacted by VOCs (RNS-MW3, RNS-MW4, RNS-MW5, and RNS-MW7). The two wells from a separate project (the Johnny's Seafood property, or JS) are identified here as MW-JS and MW-JS2. These JS wells are located near the Thea Foss Waterway, south

[1] The third quarter sampling and fourth quarter sampling events have previously been conducted in July and October, but were expedited due to sampling staff availability.

of well LAI-MW4. In order to further characterize groundwater downgradient of the former Sauro's property, one-time VOC sampling was conducted at well MW-JS in June 2013[2] and at MW-JS2 in September 2013. MNA data was also collected at MW-JS2 in September 2013.

A complete round of water levels for all existing wells (RI wells and JS wells) was collected on November 4, 2013[3] (Figure 2). Water level data from the JS wells provide an expanded characterization of groundwater gradients in the project area. Groundwater flow in the site vicinity is generally to the east and a localized gradient is present in the vicinity of the historical deep gulch.

The quarterly RI VOC sampling program has been in place since 2010. The 10 well locations that are sampled under the current program are MW-1, MW-2, MW-13, LAI-MW1, LAI-MW2, LAI-MW3, LAI-MW4, LAI-MW5, RNS-MW2, and RNS-MW6 (RI Wells). Two of the wells are sampled using a peristaltic pump (MW1 and MW2); the remaining wells are sampled using permeable diffusion bags (PDBs). Samples at well locations RNS-MW2, RNS-MW6, and LAI-MW5 are collected at two discrete depths since they have relatively long screens, other wells are sampled at one depth. The two JS wells were sampled for VOCs using a peristaltic pump. All samples were analyzed for VOCs by U.S. Environmental Protection Agency Method 8260. The RI wells, the sample depths, and the sample collection methods are presented in Table 1. The analytical methods, reporting limits, preservatives, and holding times are presented in Table 2.

The City has been collecting MNA data on a quarterly basis since September 2012. The scope of the MNA sampling program is documented in an MNA work plan (Landau Associates 2012a) that was approved by Ecology (Coleman 2012a). On December 14, 2012, the City submitted a schedule extension request letter (Landau Associates 2012b) to Ecology requesting that the MNA sampling program from September 2012 be implemented on a quarterly basis for approximately one additional year (at a minimum) to allow for evaluation of MNA as a part of the site cleanup remedy. Ecology approved the schedule extension and quarterly MNA sampling on December 21, 2012 (Coleman 2012b).

The quarterly RI MNA sampling program is conducted at 11 well locations. This program includes the 10 wells that are sampled for VOCs plus well RNS-MW7. Additionally, MW-JS2 was sampled for MNA parameters in September. Well RNS-MW7 is sampled because VOCs have not been detected at this location and therefore, this well may provide information on aquifer background conditions. MNA samples are collected from one discrete interval at each well. The RI wells sampled for MNA parameters, the sample depths, and sample collection methods are summarized in Table 1. The analytical methods, reporting limits, preservatives, holding times, and field collection methods for MNA

[2] The June 2013 VOC data from MW-JS was previously presented in Status Report No. 4 (Landau Associates 2013).
[3] The November 4, 2013 water level result for well RNS-MW5 appeared to be inconsistent with past water levels and was re-measured by Landau Associates on November 6, 2013. The re-measured water level was consistent with past water levels and was used on Figure 2.

parameters are presented in Table 2. Although not an RI well and therefore not listed in Table 1 or 2, the MNA sampling conducted at MW-JS2 in September 2013 followed the sampling and analysis procedures of the RI wells; the sampling method utilized a peristaltic pump and the samples were collected approximately 16 feet (ft) below ground surface (BGS).

VOLATILE ORGANIC COMPOUND DATA – RI WELLS

The City collected third quarter 2013 VOC data on June 18, 2013 and fourth quarter 2013 VOC data on September 9, 2013. All 10 RI wells and all sampling intervals were sampled in general accordance with provisions listed in Table 1 and Table 2[4]. Seven of the ten wells monitor the primary PCE plume (shown on Figure 3) that emanates from near the northeast corner of the former Sauro's property in an eastern direction; the other three wells (specifically RNS-MW2, MW1, and MW2) monitor a secondary PCE plume that is relatively low-concentration and emanates from the former Sauro's property towards the south along Court A. VOC concentration data is presented in Table 3. The current spatial extent of the PCE plume is presented on Figure 3.

The primary PCE plume is defined mainly by four wells: RNS-MW6, MW-13, LAI-MW2, and LAI-MW3. With the exception of RNS-MW6 PCE concentration trends appear to be slowly decreasing since the interim action in 2010. PCE concentration trends for these wells are shown on Figure 4. Trichloroethene (TCE) and *cis*-1,2-dichloroethene (*cis*-1,2-DCE) also occur at these wells at approximate concentrations of between 2 and 6 times less than the PCE concentration. Trends for these other VOCs are similar to concentration trends for PCE.

Well RNS-MW6 defines the upgradient extent of the primary PCE plume and is located just north of the former Sauro's Cleanerama. This well has two PDBs installed in a 20 ft screen. VOC concentrations in both PDBs were variable in the third and fourth quarter of 2013 without any obvious trend. This variability is consistent with past sampling events. Time series concentration data is shown on Figure 5.

Well MW-13 is located downgradient to the northeast of RNS-MW6. PCE concentrations at MW-13 have been relatively steady since the 2010 interim action. TCE and *cis*-1,2-DCE concentrations show a slow but consistent declining trend. Data from the third and fourth quarter of 2013 are consistent with historical data. Time series concentration data for MW-13 is shown on Figure 6.

LAI-MW2 is located southeast of MW-13. PCE concentrations at LAI-MW2 have also been relatively steady since the interim action was implemented with the exception of an anomalous

[4] The practical quantitation limit for TCE was 0.5 micrograms per liter (µg/L) during the July 2012 event, but has since been set at 0.2 µg/L for the project.

concentration decline[5] in April 2012. TCE and *cis*-1,2-DCE concentrations appear to be declining slowly. Time series concentration data for LAI-MW2 is shown on Figure 7.

LAI-MW3 is located northeast of LAI-MW2 at the eastern edge of downtown Tacoma. PCE concentrations at this well are similar to trends at LAI-MW2. Time series concentration data for LAI-MW3 is shown on Figure 8.

LAI-MW4 is located east of LAI-MW3 near the Thea Foss Waterway. PCE concentrations at this well have generally declined since PCE was first detected in October 2010 and have been below laboratory reporting limits for the last seven sampling events. TCE, *cis*-1,2-DCE, and vinyl chloride are also occasionally detected at this well at low concentrations. Time series concentration data is shown on Figure 9.

In addition to the time series concentration figures, vertical cross sections of the plumes are provided. The third quarterly VOC data (June 2013) from wells along the west-to-east primary plume axis are presented on Figures 10A (PCE), 11A (TCE), and 12A (*cis*-1,2-DCE). The fourth quarterly VOC data (September 2013) from wells along the west-to-east primary plume axis are presented on Figures 10B (PCE), 11B (TCE), and 12B (*cis*-1,2-DCE). All June and September 2013 VOC data results for RI wells are presented in Table 3. The associated laboratory reports are presented as Appendices A and B, respectively.

VOLATILE ORGANIC COMPOUND DATA – JS WELLS

As mentioned, MW-JS was sampled for VOCs in June 2013 and MW-JS2 was sampled for VOCs in September 2013. Sampling of MW-JS was conducted as a one-time event, separate from quarterly groundwater sampling event and was thus presented in Status Report No. 4 (Landau Associates 2013) as a second quarter 2013 activity. The City intended to sample MW-JS a second time during the fourth quarterly groundwater VOCs sampling event in September, and instead found an additional well (identified herein as MW-JS2) and sampled it. MW-JS2 was analyzed for the full VOC list typically reported for RI wells. PCE and breakdown products were not detected. MW-JS2 is also included in the laboratory report with addendum in Appendix B; the addendum corrects a mistake in the name of MW-JS2 on the original laboratory report (incorrectly titled MW-JS at time of sampling). VOC data results for well MW-JS2 are presented in Table 4.

[5] Anomalous declines in VOC concentrations may be due to laboratory errors.

MONITORED NATURAL ATTENUATION DATA

The City collected third quarter 2013 MNA data in June 2013 and fourth quarter 2013 MNA data in September 2013. The June 2013 event was conducted on June 19, 20 and 21, and the September 2013 event was conducted on September 10, 11, and 12. The September 2013 event also included MNA data for well MW-JS2. The data appear to indicate that reducing conditions that are conducive for reductive dechlorination occur at well LAI-MW5 (near source area) and LAI-MW4 (most downgradient well) in June and September. Well MW-1 (south of LAI-MW5) also showed reducing conditions in June. Favorable reductive dechlorination conditions include the depletion of nitrate with the presence of ferrous iron, relatively low sulfate, and detectable concentrations of methane. A summary of RI MNA data results for RI wells are presented in Table 5. The MW-JS2 MNA results are provided in Table 4. The June and September 2013 MNA data (RI wells and MW-JS2) is shown on Figures 13A and 13B, respectively. The MNA laboratory reports for the third and fourth quarters of 2013 are presented in Appendices C and D, respectively.

OTHER GROUNDWATER MONITORING ACTIVITIES

A reconnaissance of wells MW-JS and MW-JS2 was conducted on October 1, 2013 by Landau Associates to sound new well MW-JS2, assess the top of the well screen, and to measure well locations using a global positioning system (GPS). The wells appear to be similar in construction, although the depth to top of screen was not determined. In late October 2013, the City's survey team surveyed MW-JS and MW-JS2.

In late November (November 25 and 26), Landau Associates oversaw direct-push drilling of shallow borings (30 ft or shallower) at five locations along Dock Street near South 15th Street. No problems were encountered during the investigation. Sampling results and the lithology data collected at these locations will be presented to Ecology in a draft form during a meeting (anticipated for January 2014) and more formally in the Remedial Investigation/Feasibility Study report (currently scheduled to be submitted to Ecology during the first quarter of 2013).

Please let us know if you have any questions concerning groundwater monitoring activities presented in this Status Report No. 5.

BNG/LKK/EFW/emw/jrc

REFERENCES

Coleman, M. 2012a. Email message from Marv Coleman, Toxics Cleanup Program, Washington State Department of Ecology, to Lauren McIntire, Landau Associates. Re: *Sauro's – Ecology Review Draft MNA Work Plan.* Copy of the draft MNA work plan with Ecology comments was attached. September 5.

Coleman, M. 2012b. Email message from Marv Coleman, Toxics Cleanup Program, Washington State Department of Ecology to Lauren Knickrehm, Landau Associates. Re: *Sauro's – RI/FS Schedule Extension Request Letter Submittal.* December 21.

Landau Associates. 2013. Technical Memorandum: *Status Report No. 4, Former Sauro's Cleanerama Site, Site ID 4339824.* Prepared for Washington State Department of Ecology on behalf of the City of Tacoma. October 3.

Landau Associates. 2012a. Technical Memorandum: *Monitored Natural Attenuation Remedy Evaluation Sampling Work Plan, Sauro's Cleanerama Site, Site ID 4339824.* Prepared for Washington State Department of Ecology on behalf of the City of Tacoma. September 6.

Landau Associates. 2012b. Letter: *Remedial Investigation/Feasibility Study Schedule Status and Extension Request, Former Sauro's Cleanerama Site, Tacoma, Washington, Site ID:4339824.* From Lauren Knickrehm, Landau Associates to Marv Coleman, Toxics Cleanup Program, Washington State Department of Ecology. December 14.

ATTACHMENTS

Figure 1: Existing Monitoring Well Network and Cross Section Area
Figure 2: Groundwater Contours November 2013
Figure 3: Most Recent Groundwater PCE Concentrations and Pre-RI PCE Plume
Figure 4: Tetrachloroethene Concentrations at Select Wells
Figure 5: Select Volatile Organic Compound Concentrations at RNS-MW6
Figure 6: Select Volatile Organic Compound Concentrations at MW-13
Figure 7: Select Volatile Organic Compound Concentrations at LAI-MW2
Figure 8: Select Volatile Organic Compound Concentrations at LAI-MW3
Figure 9: Select Volatile Organic Compound Concentrations at LAI-MW4
Figure 10A: Vertical Extent of PCE June 2013
Figure 10B: Vertical Extent of PCE September 2013
Figure 11A: Vertical Extent of TCE June 2013
Figure 11B: Vertical Extent of TCE September 2013
Figure 12A: Vertical Extent of cis-1,2-DCE June 2013
Figure 12B: Vertical Extent of cis-1,2-DCE September 2013
Figure 13A: Monitored Natural Attenuation Data June 2013
Figure 13B: Monitored Natural Attenuation Data September 2013

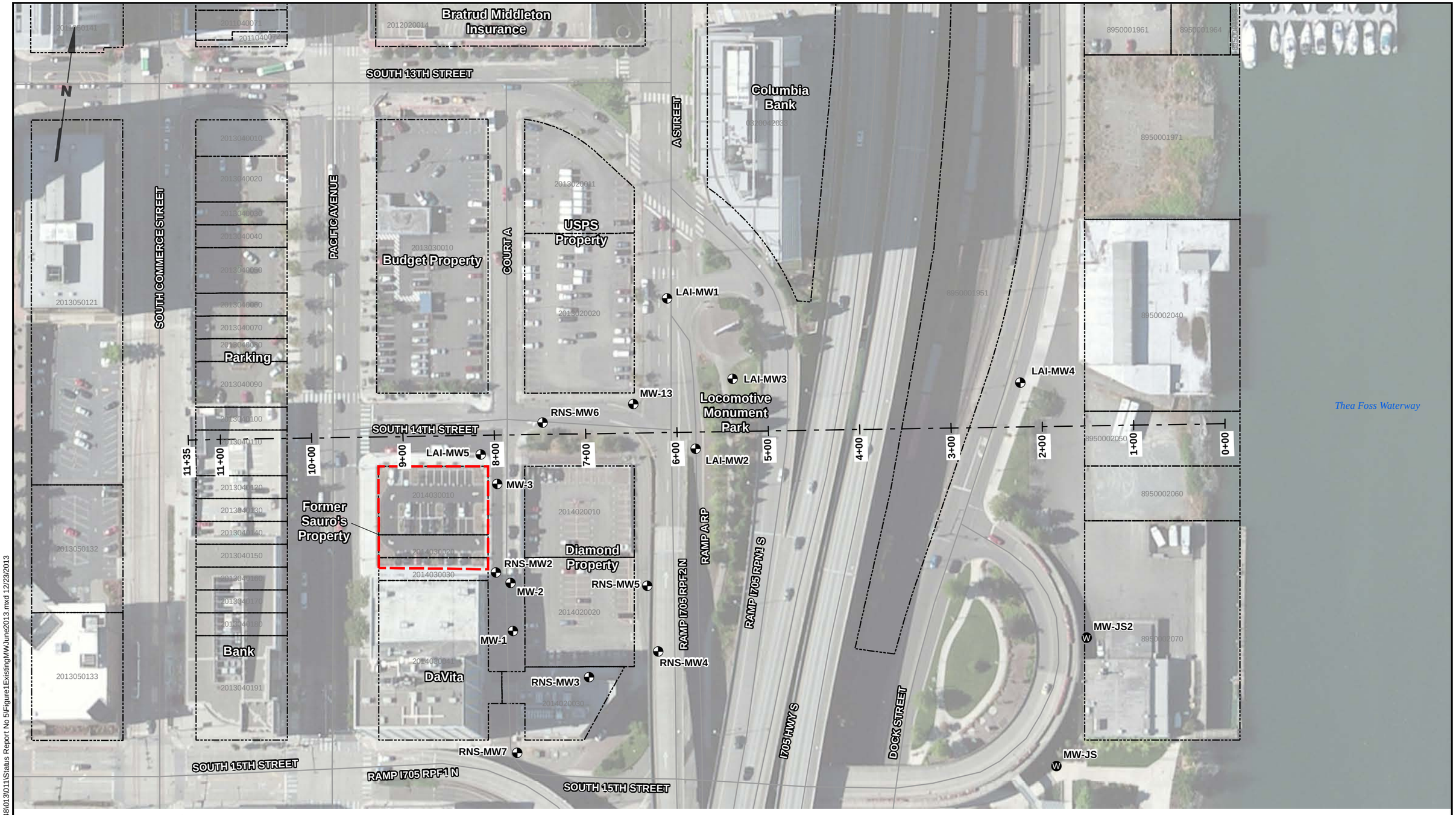
Table 1: Quarterly Sampling Locations, Depths, and Methods
Table 2: Quarterly Sampling Laboratory and Field Parameter Details
Table 3: Constituents of Concern Groundwater Analytical Results
Table 4: Groundwater Analytical Results for Wells MW-JS2
Table 5: Monitored Natural Attenuation Parameters

Appendix A: June 2013 Volatile Organic Compound Data, Third Quarter Sampling, Lab Report T306134

Appendix B: September 2013 Volatile Organic Compound Data, Fourth Quarter Sampling, Lab Report T309065 with Addendum

Appendix C: June 2013 Monitored Natural Attenuation Data, Third Quarter Sampling, Lab Report T303001

Appendix D: September 2013 Monitored Natural Attenuation Data, Fourth Quarter Sampling, Lab Report T309098



G:\Projects\094\048\013011\Status Report No 5\Figure1ExistingMWJune2013.mxd 12/23/2013

Legend

- Remedial Investigation Monitoring Wells
- Other Wells
- Subject Property
- Cross Section Location

0 100 200

Scale in Feet

Notes

1. All remedial investigation wells are sampled except for MW-3, which is too dry.
2. Wells MW-JS and MW-JS2 are existing wells from a separate cleanup site unrelated to Sauro's. One was sampled in June and one was sampled in September 2013 during Suaro's quarterly sampling for additional background information.

Data Source: Pierce County GIS; Esri World Imagery

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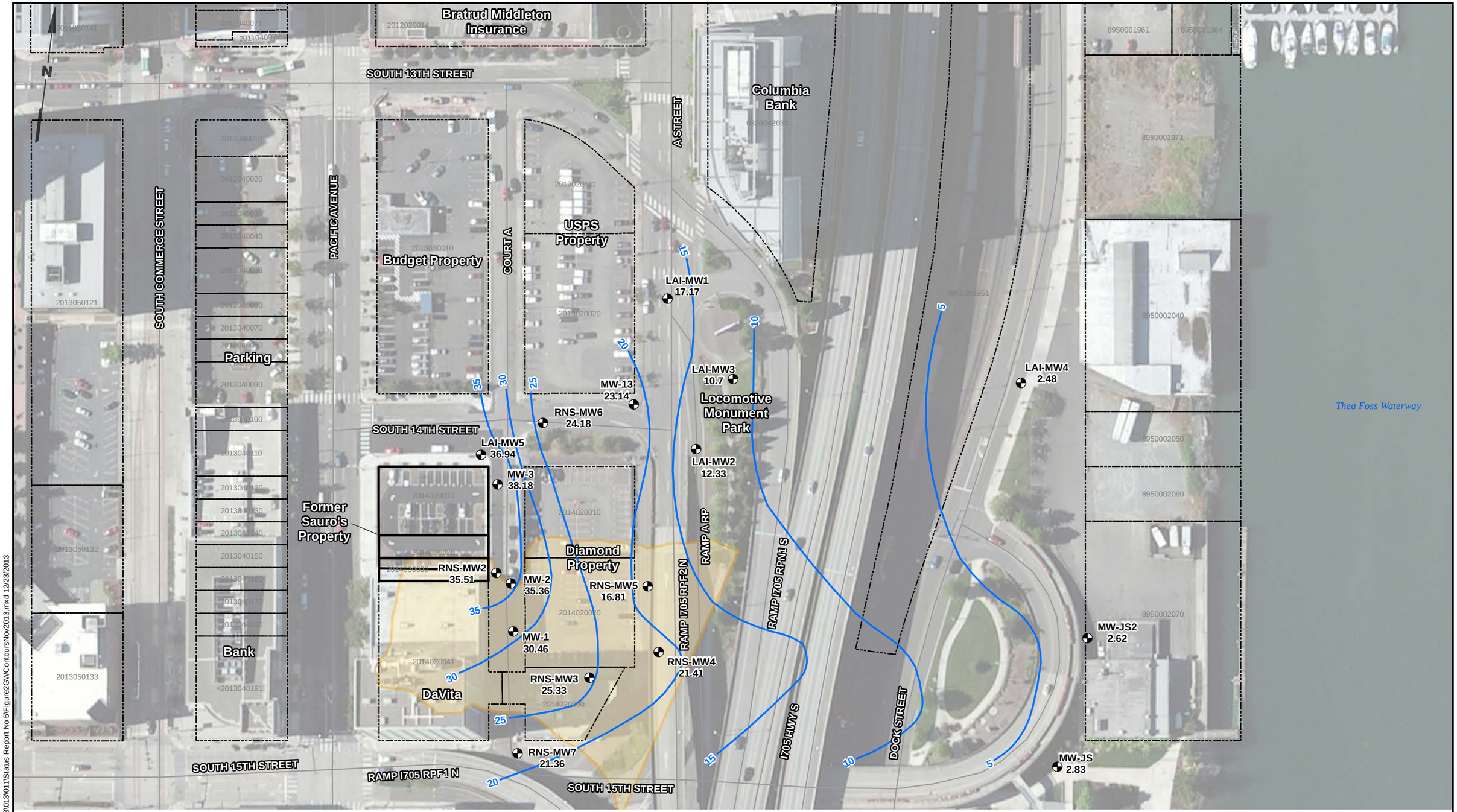
Sauro's Property RI/FS
Tacoma, Washington

Existing Monitoring Well Network and Cross Section Area

Figure 1



G:\Projects\094\048\013\011\Status Report No 5\Figure2GWContoursNov2013.mxd 12/23/2013

Legend

- Monitoring Wells
- Groundwater Contours
- Subject Property
- Historical Deep Gulch

Notes

1. Water levels were collected by City staff on November 3. The measurement from RNS-MW5 was erroneous, and was replaced with a new measurement collected by LAI on November 6.
2. To reduce the effects of tidal fluctuation, LAI-MW4, MW-JS, and MW-JS2 were measured within minutes of each other.
3. Historical gulch was present as of 1888; it was filled as downtown was developed.

0 100 200

Scale in Feet

Data Source: Pierce County GIS; Esri World Imagery.

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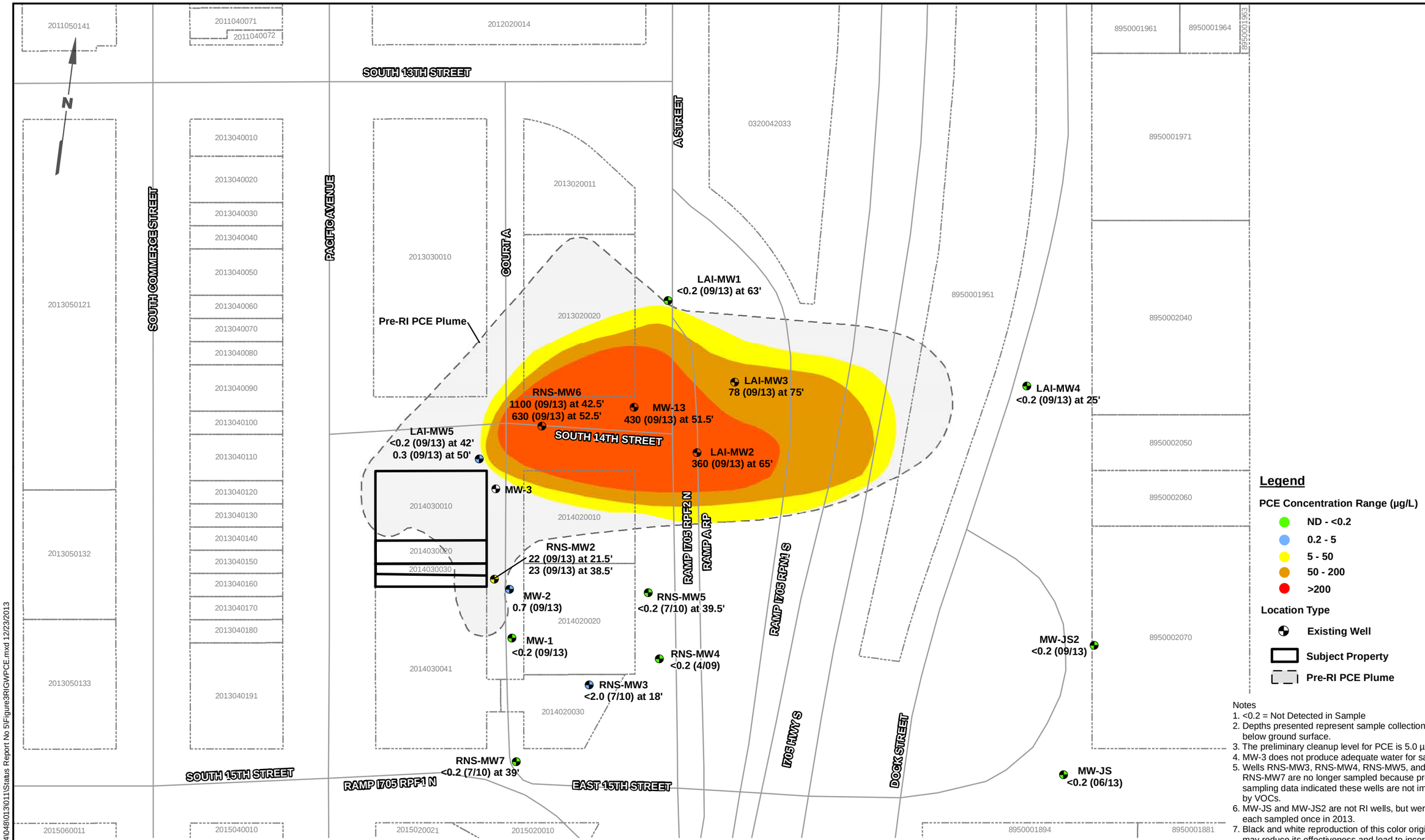
Sauro's Property RI/FS
Tacoma, Washington

Groundwater Elevation Contours November 2013

Figure 2



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Data Source: Pierce County GIS

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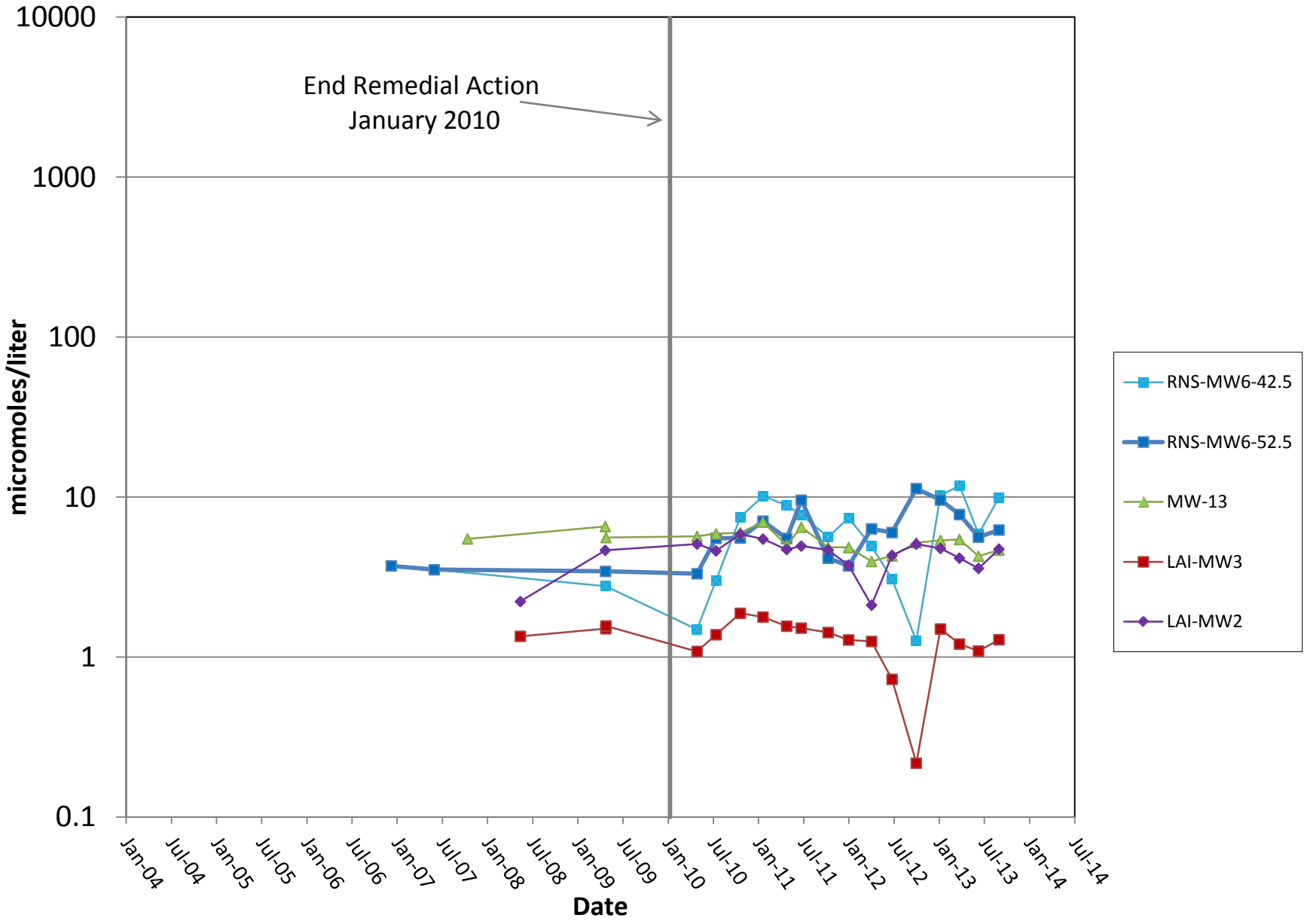
Sauro's Property RI/FS
Tacoma, Washington

Most Recent Groundwater PCE Concentrations and Pre-RI PCE Plume

Figure 3



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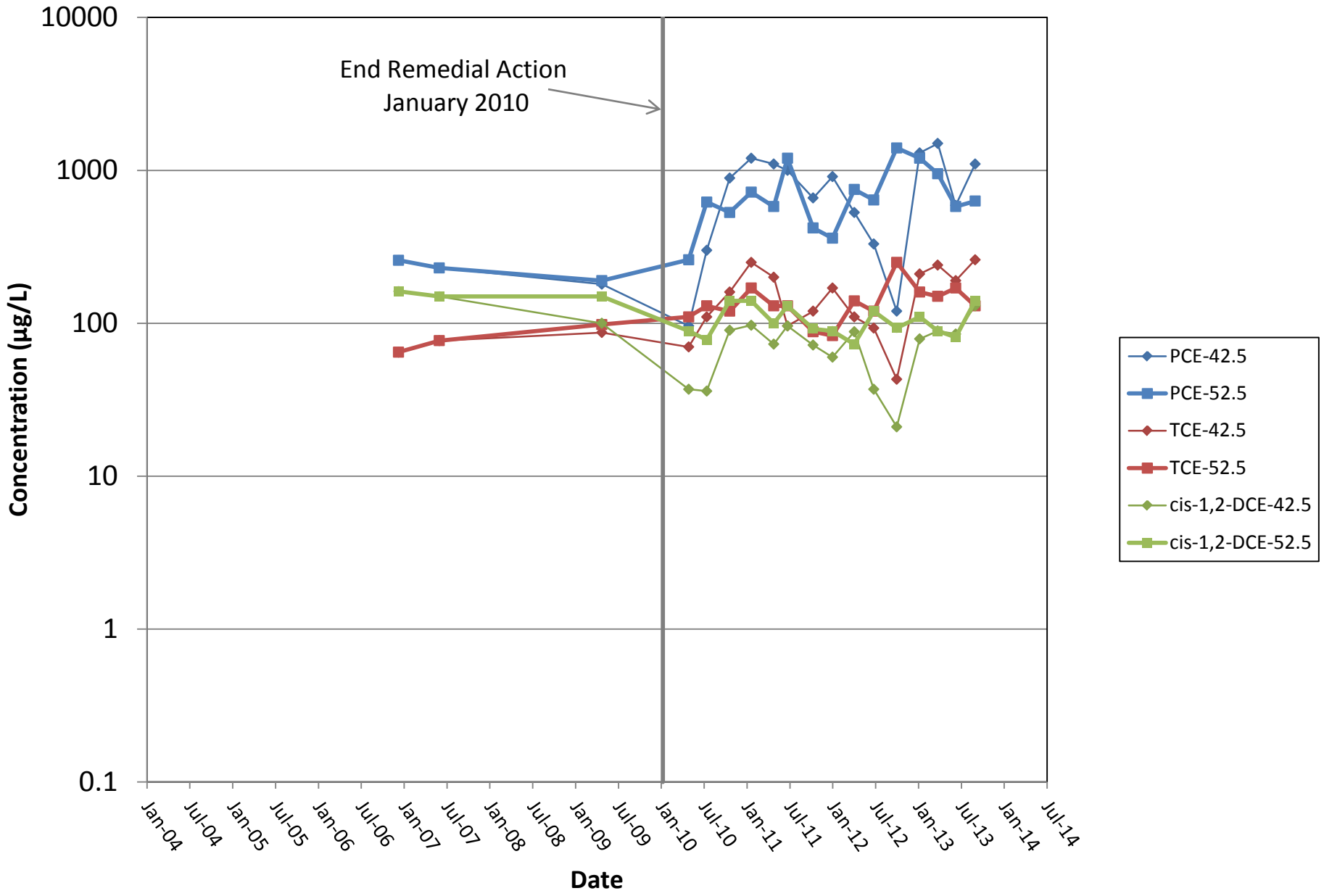
Tacoma, Washington

Tetrachloroethene Concentrations at Select Wells

Figure
4



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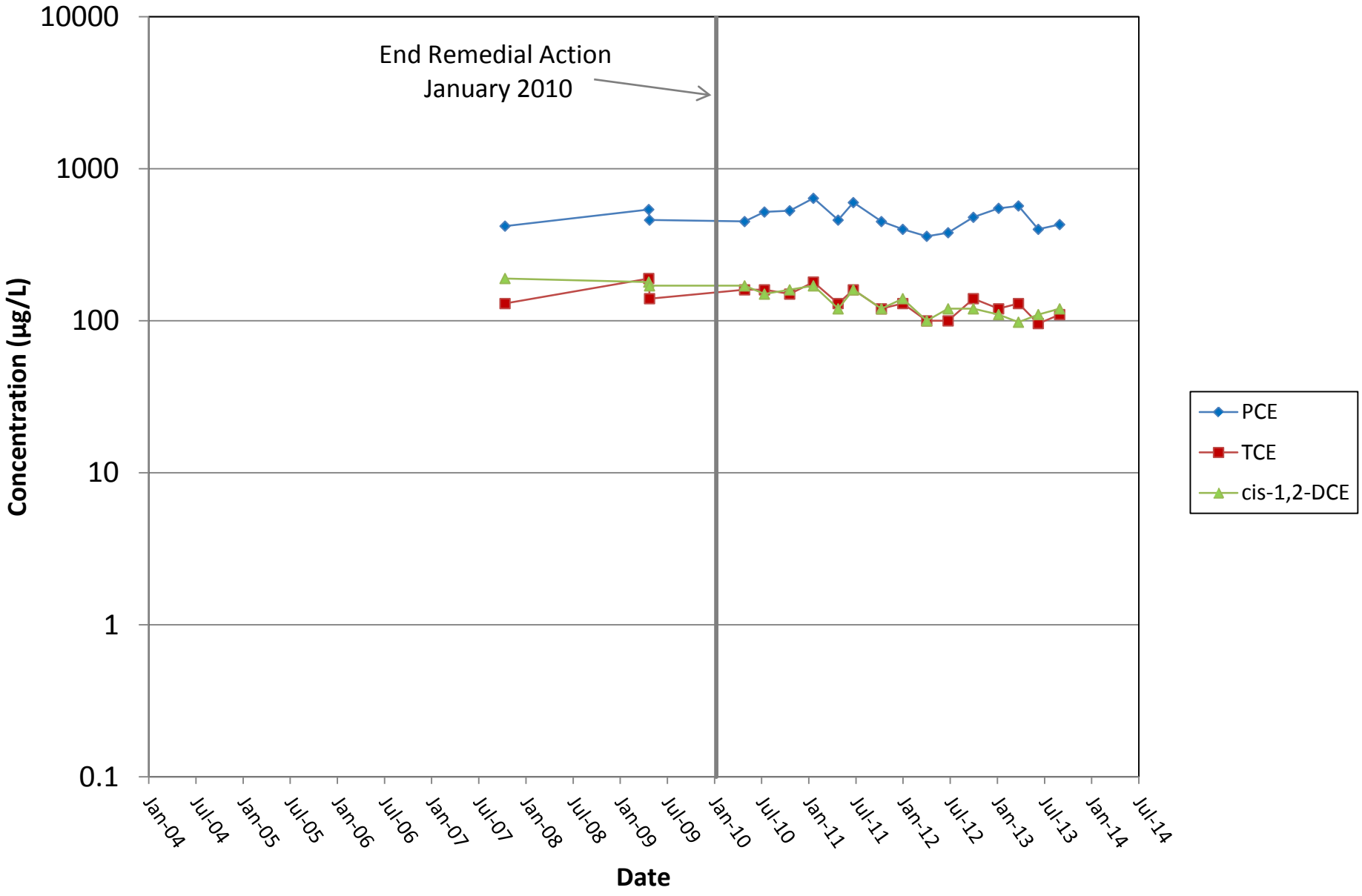
Sauro's Property RI/FS
Tacoma, Washington

Select Volatile Organic Compound Concentrations at RNS-MW6

Figure
5



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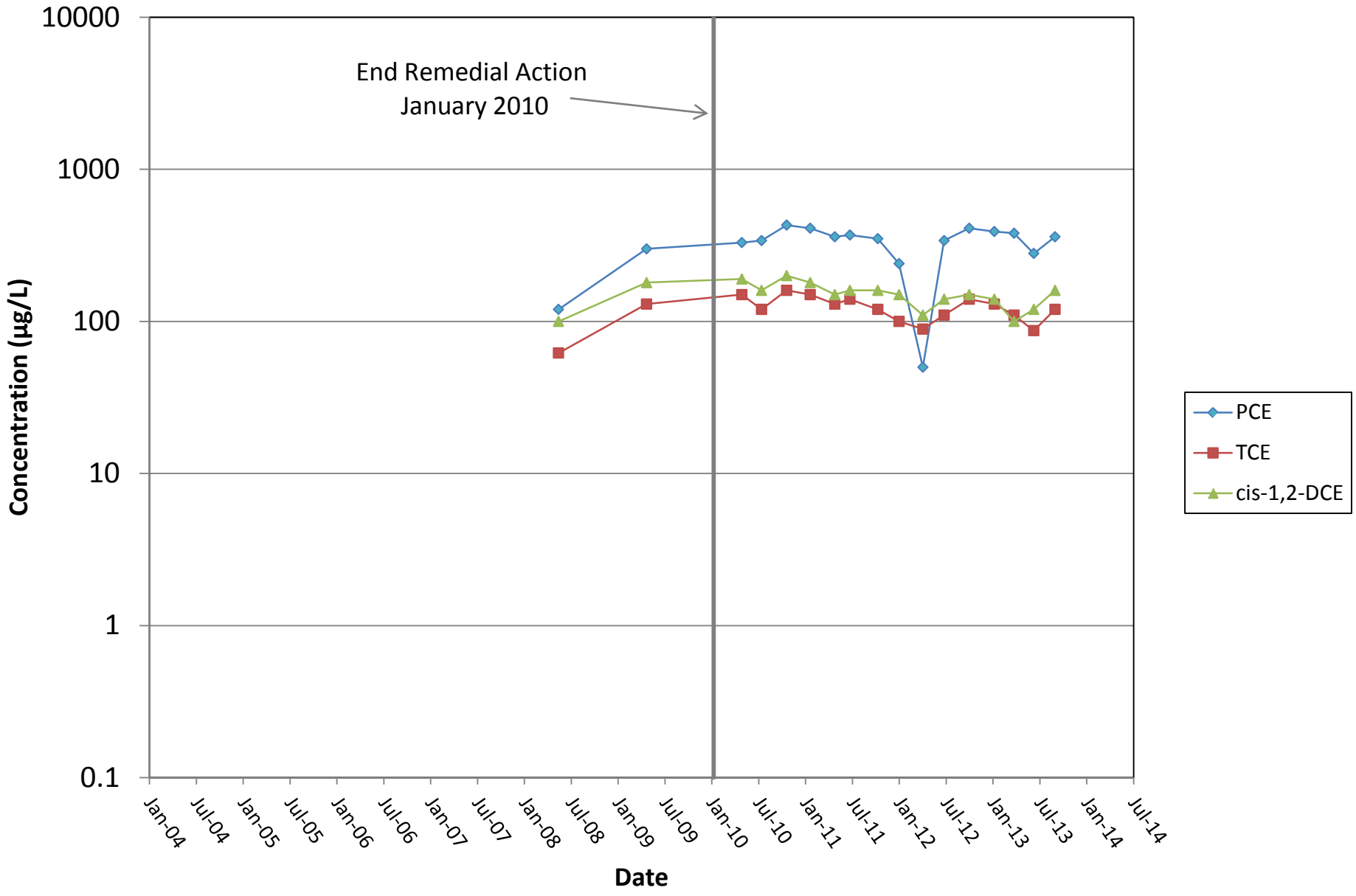
Sauro's Property RI/FS
Tacoma, Washington

Select Volatile Organic Compound Concentrations at MW-13

Figure
6



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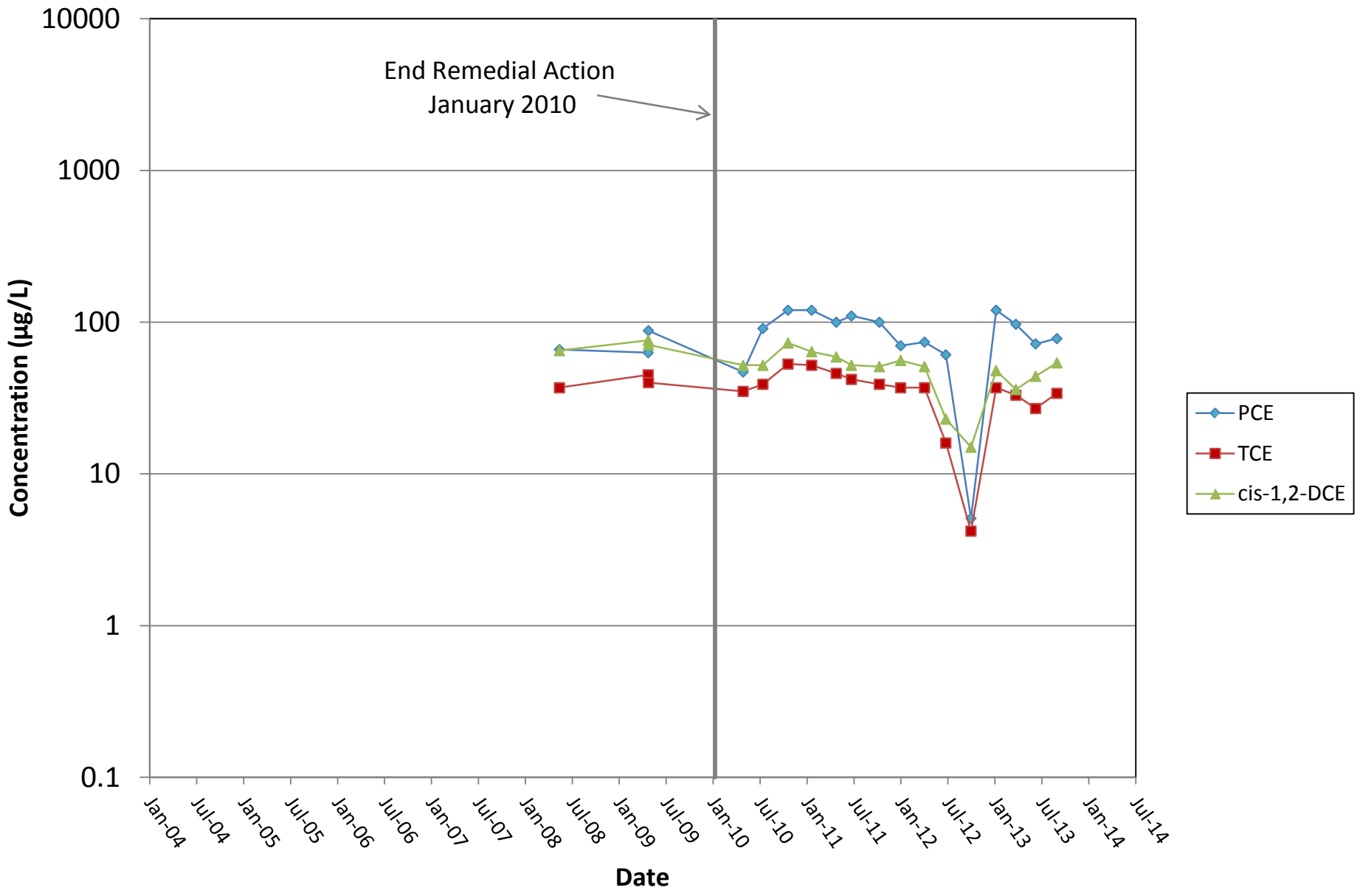
Sauro's Property RI/FS
Tacoma, Washington

Select Volatile Organic Compound Concentrations at LAI-MW2

Figure
7



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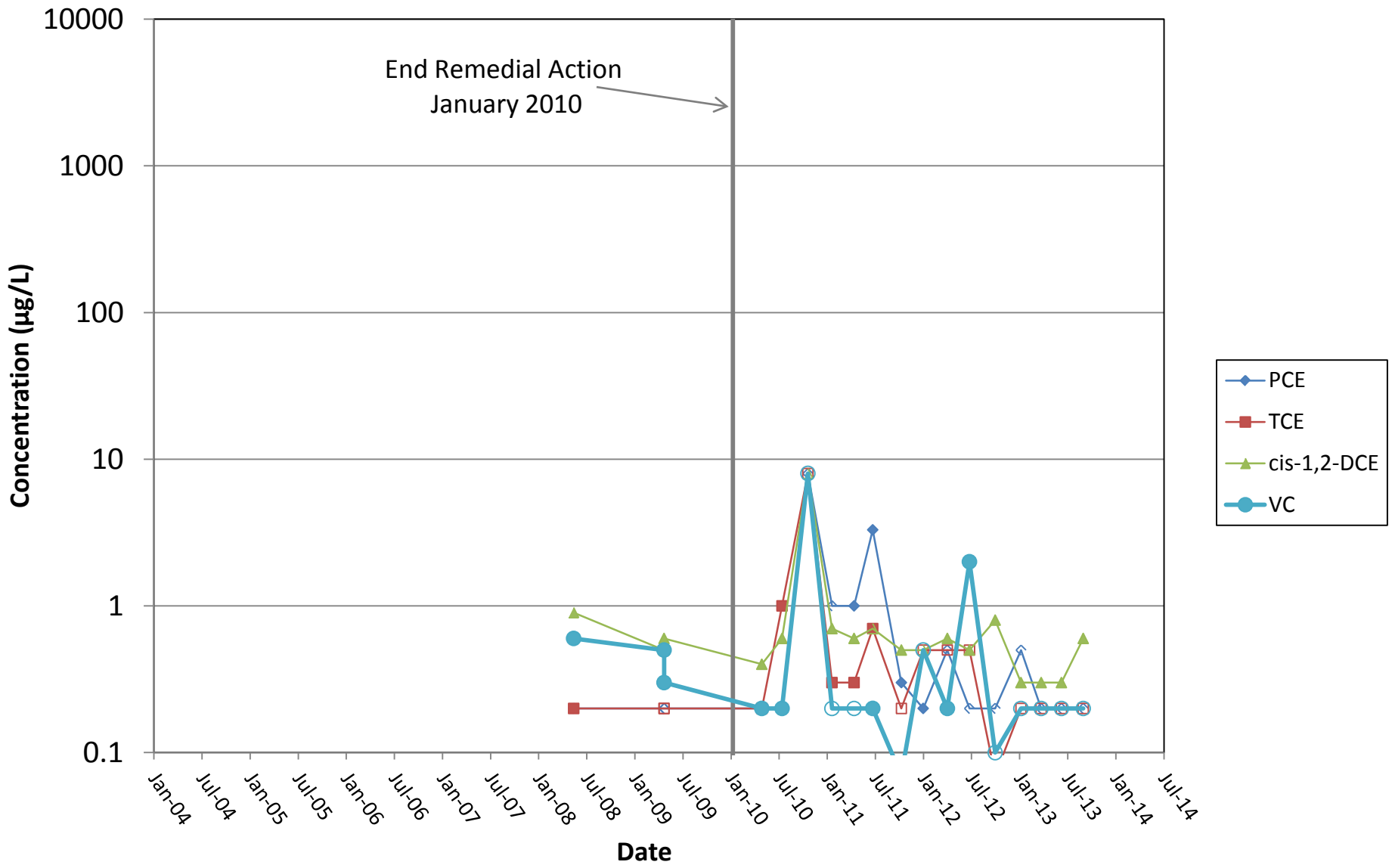
Sauro's Property RI/FS
Tacoma, Washington

Select Volatile Organic Compound Concentrations at LAI-MW3

Figure
8



Note on data point markers:
Closed = detected values
Open = non-detected values at the analytical reporting limit

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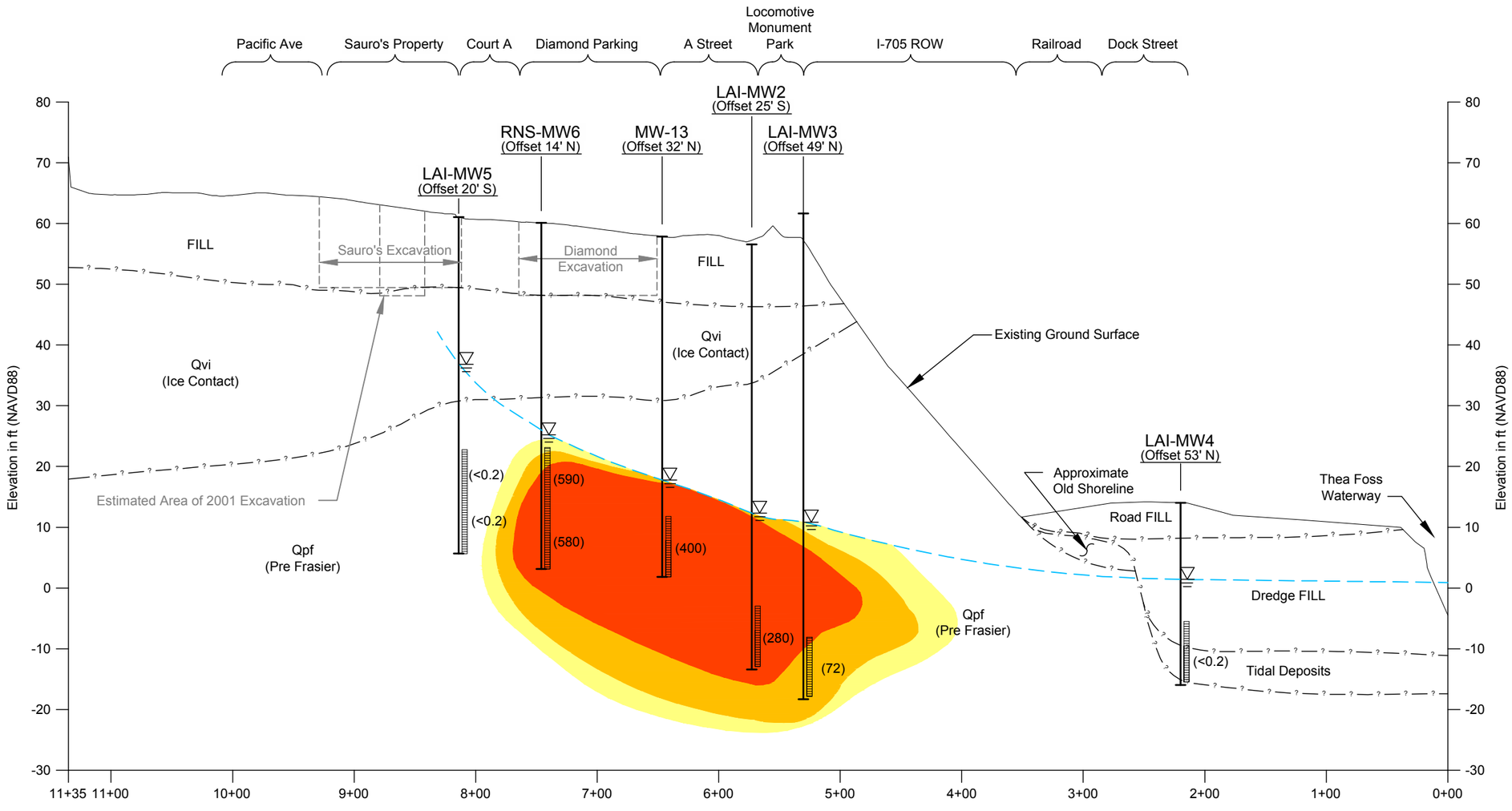
Sauro's Property RI/FS
Tacoma, Washington

Select Volatile Organic Compound Concentrations at LAI-MW4

Figure
9



Legend

- Indicates a Decommissioned Well
- **MW-1** — Project Exploration Designation
- (Offset 160' W) — Offset Distance in Feet and Direction
- Top of Exploration
- Groundwater Level
- Inferred Groundwater Table
- Inferred Geologic Contact
- Well Screen Interval (If Installed)
- (##) — PCE Concentration (µg/L)
- Bottom of Exploration
- Former Excavation Areas

PCE Concentration Range (µg/L)

- Yellow 5 - 50
- Orange 50 - 200
- Red >200

Notes:

1. Soil descriptions are generalized, based on interpretation of field and laboratory data. Stratigraphic contacts are interpolated between borings and based on topographic features; actual conditions may vary. See Landau Associates Phase 2 Investigation report text for descriptions of geologic units.
2. For cross-section profile location see Figure 1.
3. PCE concentration data shown in micrograms per liter. Data from June 2013.
4. Water level data from June 2013.
5. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

0 100 200

Horizontal Scale: 1"=100'
Vertical Scale: 1"=20'

Base map source: Contours Provided By City of Tacoma 2008

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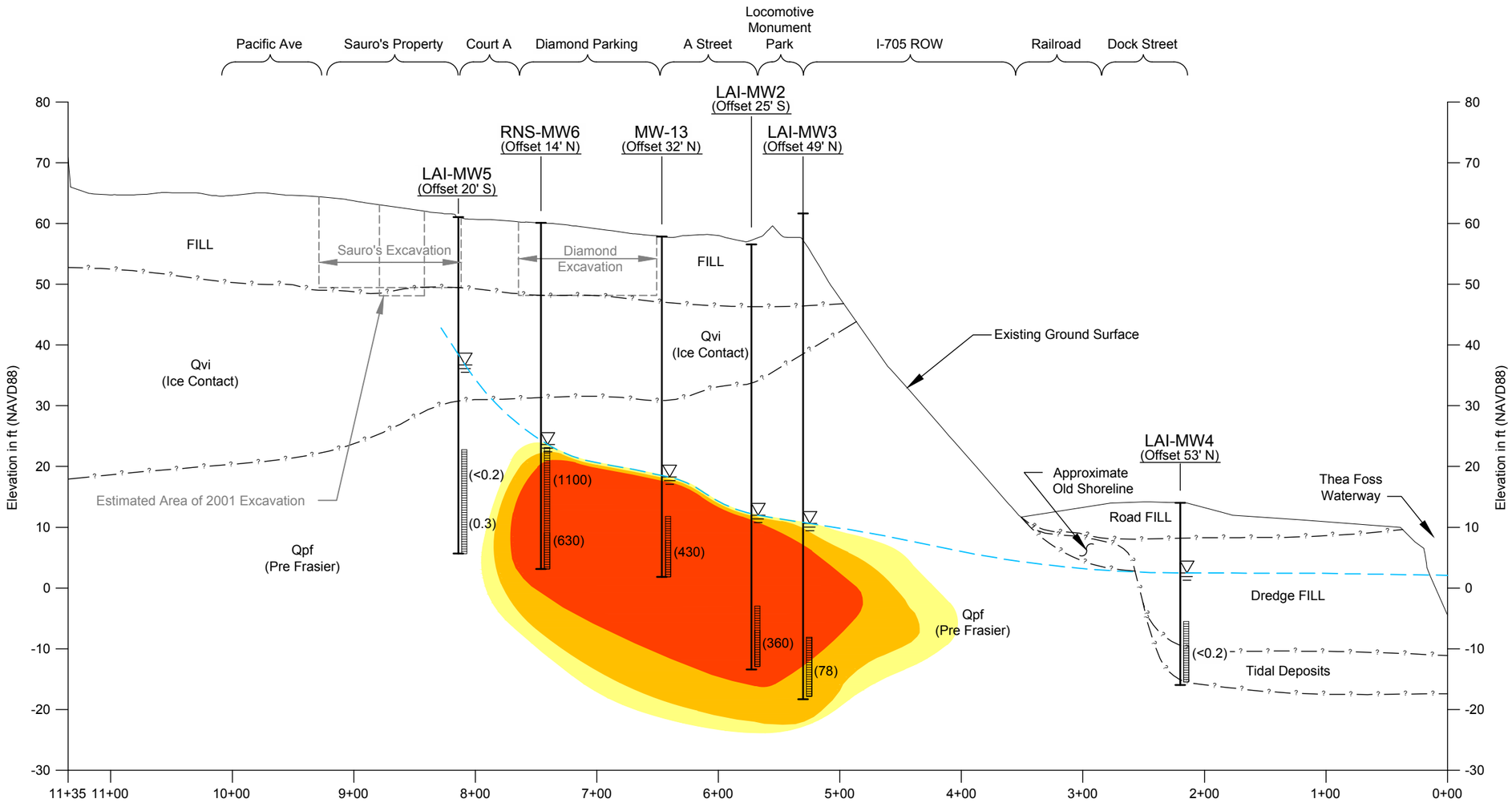
Sauro's Property RI/FS
Tacoma, Washington

Vertical Extent of PCE
June 2013

Figure
10A

Report | G:\Projects\094\048\013\011\Status Report No 5\Plan-GeoSections June2013.dwg (A) "Figure 10A" 12/20/2013



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Base map source: Contours Provided By City of Tacoma 2008

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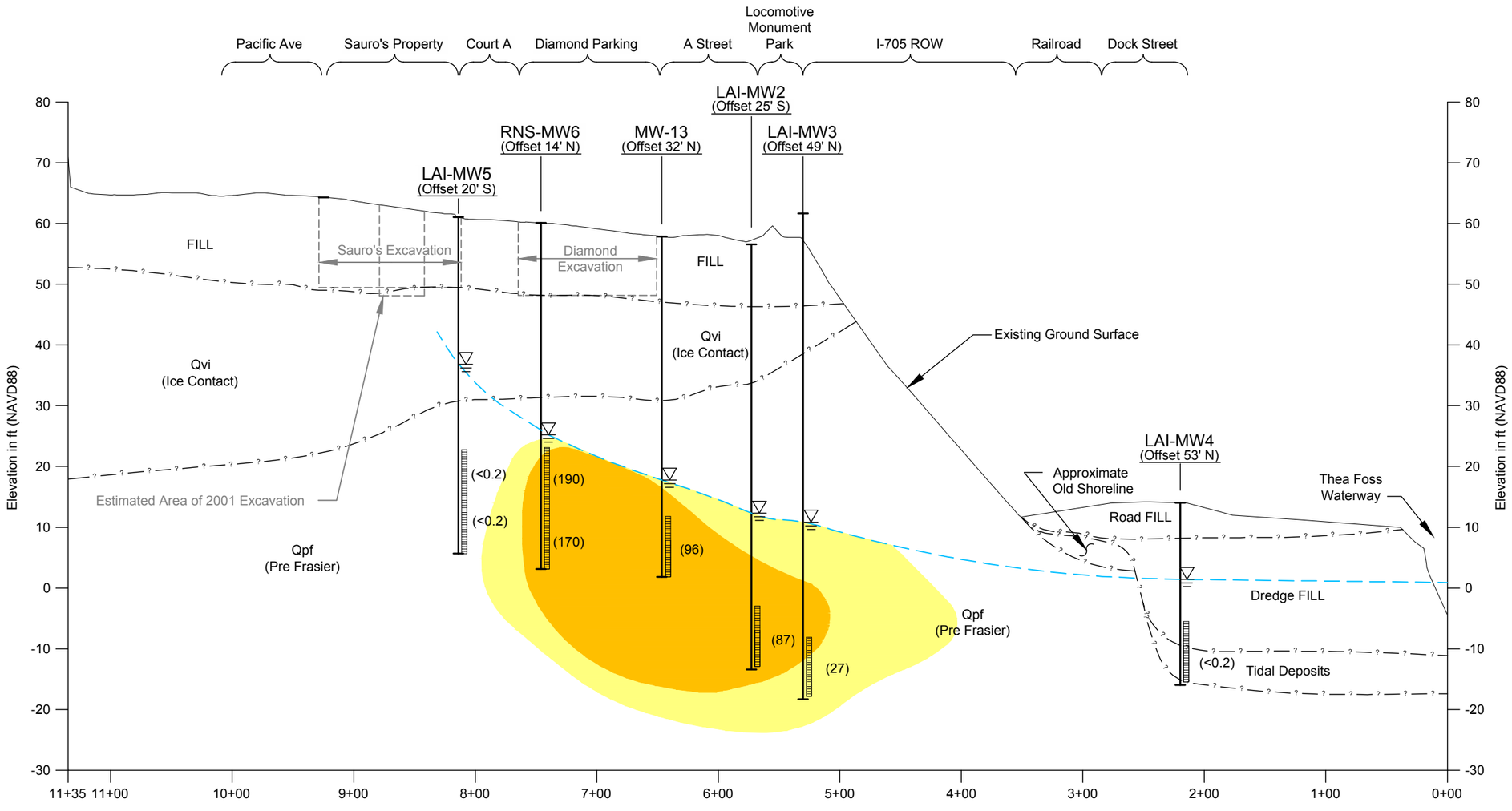
Sauro's Property RI/FS
Tacoma, Washington

Vertical Extent of PCE
September 2013

Figure
10B

| G:\Projects\094\048\013\011\Status Report No 5\Plan-GeoSections September2013.dwg (A) "Figure 10B" 12/20/2013



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Base map source: Contours Provided By City of Tacoma 2008

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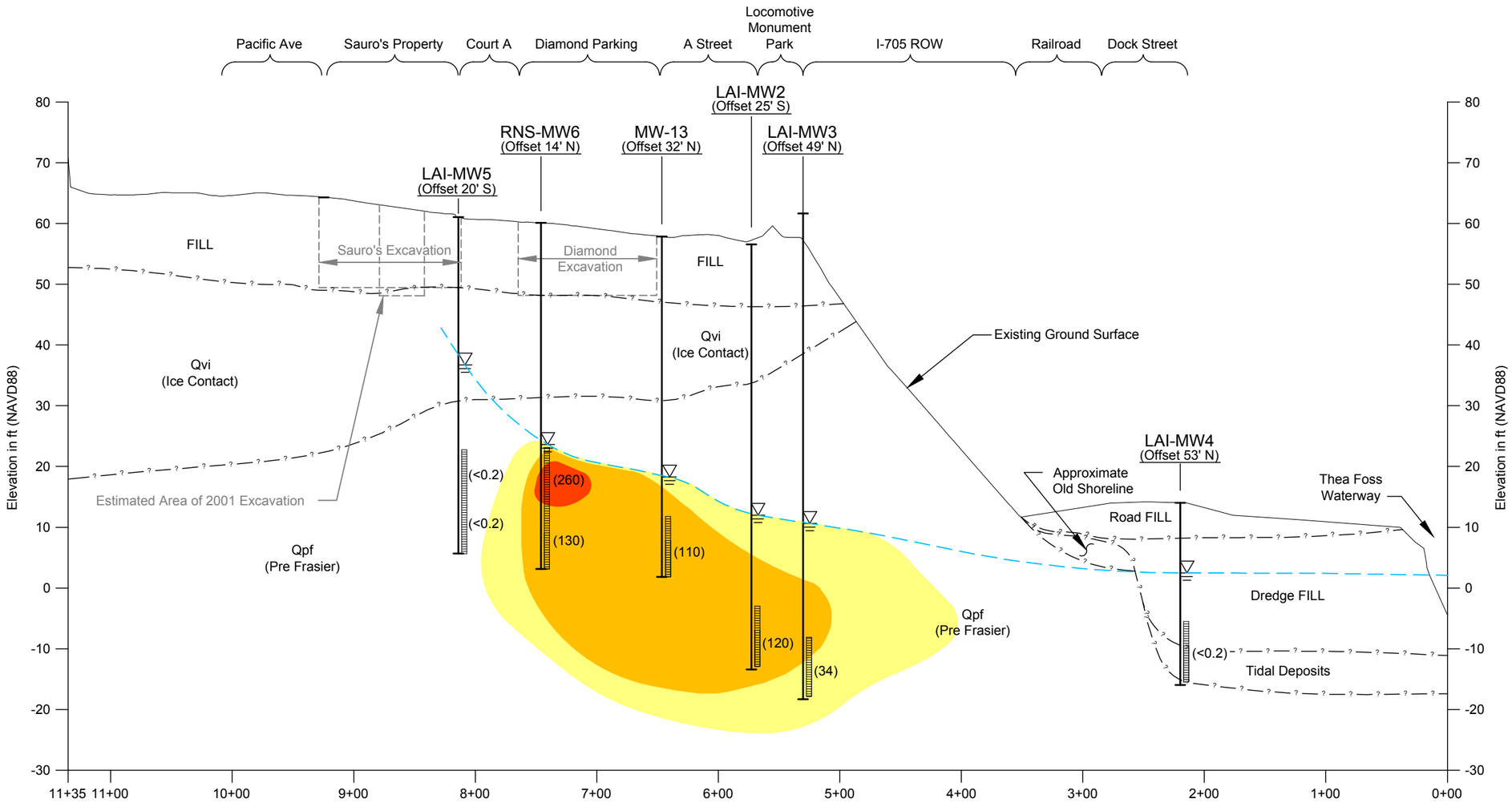
Sauro's Property RI/FS
Tacoma, Washington

Vertical Extent of TCE
June 2013

Figure
11A

Report | G:\Projects\094\048\013\011\Status Report No 5\Plan-GeoSections June2013.dwg (A) "Figure 11A" 12/20/2013



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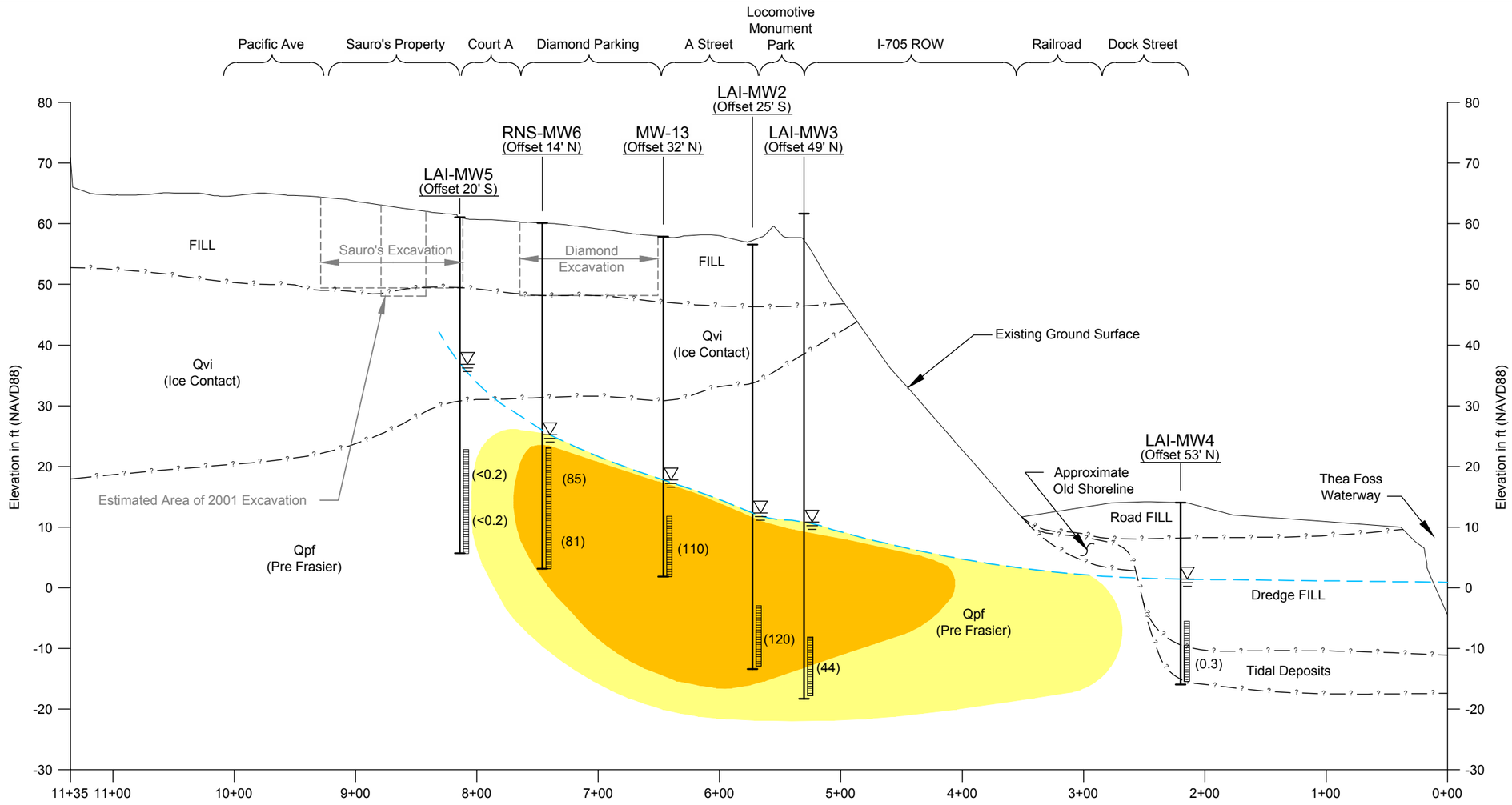
Sauro's Property RI/FS
Tacoma, Washington

Vertical Extent of TCE
September 2013

Figure
11B

I:\Projects\094\048\013\011\Status Report No 5\Plan-GeoSections September2013.dwg (A) "Figure 11B" 12/20/2013



Legend

- Indicates a Decommissioned Well
- **MW-1** — Project Exploration Designation
- (Offset 160' W) — Offset Distance in Feet and Direction
- Top of Exploration
- Groundwater Level
- Inferred Groundwater Table
- Inferred Geologic Contact
- Well Screen Interval (If Installed)
- (##) — cis-1,2-DCE Concentration (µg/L)
- Bottom of Exploration
- Former Excavation Areas

cis-1,2-DCE Concentration Range (µg/L)

- Yellow 5 - 50
- Orange 50 - 200
- Red >200

Notes:

1. Soil descriptions are generalized, based on interpretation of field and laboratory data. Stratigraphic contacts are interpolated between borings and based on topographic features; actual conditions may vary. See Landau Associates Phase 2 Investigation report text for descriptions of geologic units.
2. For cross-section profile location see Figure 1.
3. cis-1,2-DCE concentration data shown in micrograms per liter. Data from June 2013.
4. Water level data from June 2013.
5. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

0 100 200

Horizontal Scale: 1"=100'
Vertical Scale: 1"=20'

Base map source: Contours Provided By City of Tacoma 2008

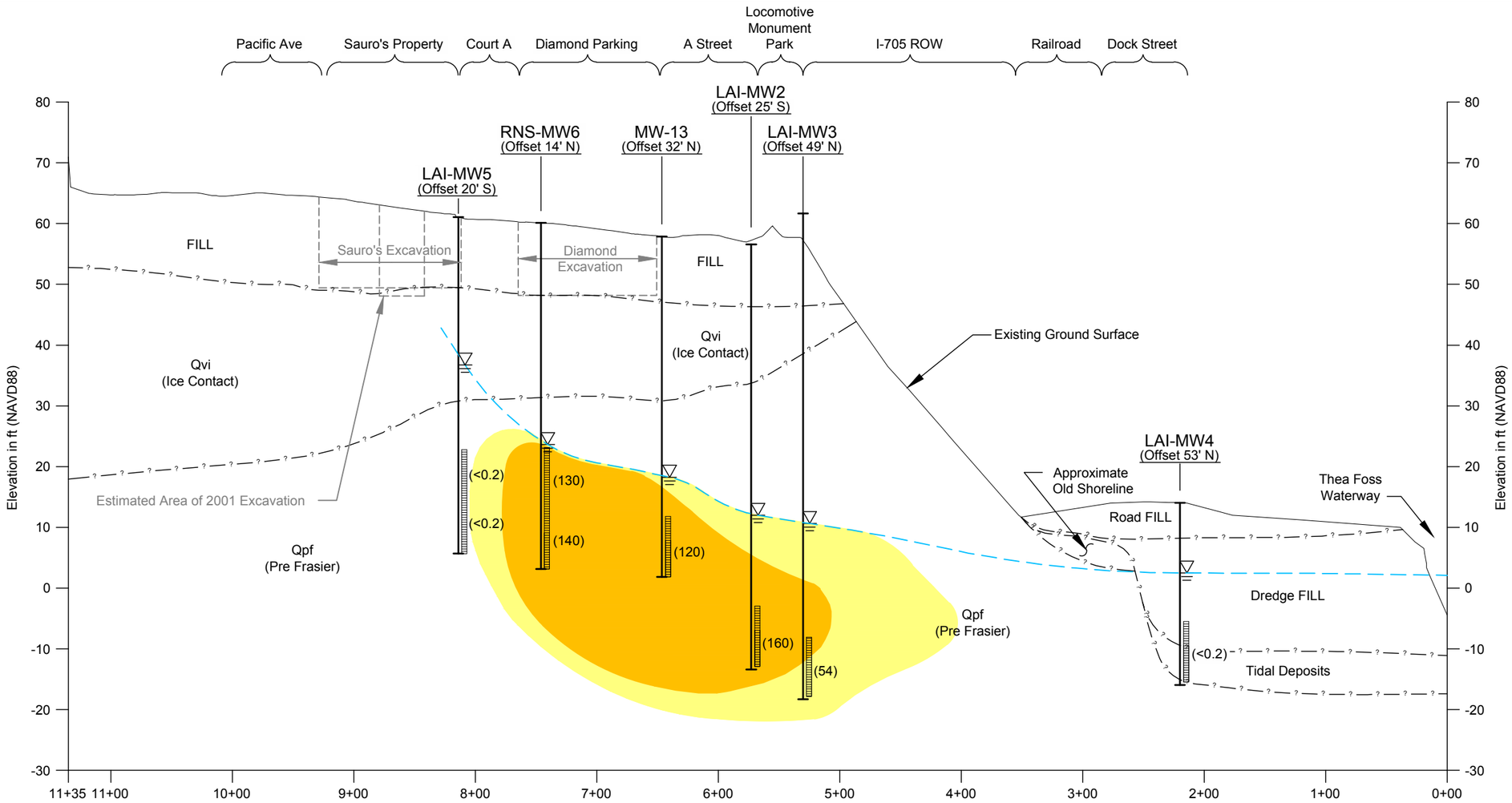
LANDAU ASSOCIATES

Sauro's Property RI/FS
Tacoma, Washington

Vertical Extent of cis-1,2-DCE
June 2013

Figure
12A

| G:\Projects\094\048\013\011\Status Report No 5\Plan-GeoSections June2013.dwg (A) "Figure 12A" 12/20/2013



Legend

- Indicates a Decommissioned Well
- **MW-1** — Project Exploration Designation
- (Offset 160' W) — Offset Distance in Feet and Direction
- Top of Exploration
- Groundwater Level
- Inferred Groundwater Table
- Inferred Geologic Contact
- Well Screen Interval (If Installed)
- (##) — cis-1,2-DCE Concentration (µg/L)
- Bottom of Exploration
- Former Excavation Areas

cis-1,2-DCE Concentration Range (µg/L)

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- Orange 50 - 200
- Red >200

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1. Soil descriptions are generalized, based on interpretation of field and laboratory data. Stratigraphic contacts are interpolated between borings and based on topographic features; actual conditions may vary. See Landau Associates Phase 2 Investigation report text for descriptions of geologic units.
2. For cross-section profile location see Figure 1.
3. cis-1,2-DCE concentration data shown in micrograms per liter. Data from September 2013.
4. Water level data from September 2013.
5. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

0 100 200

Horizontal Scale: 1"=100'
Vertical Scale: 1"=20'

Base map source: Contours Provided By City of Tacoma 2008

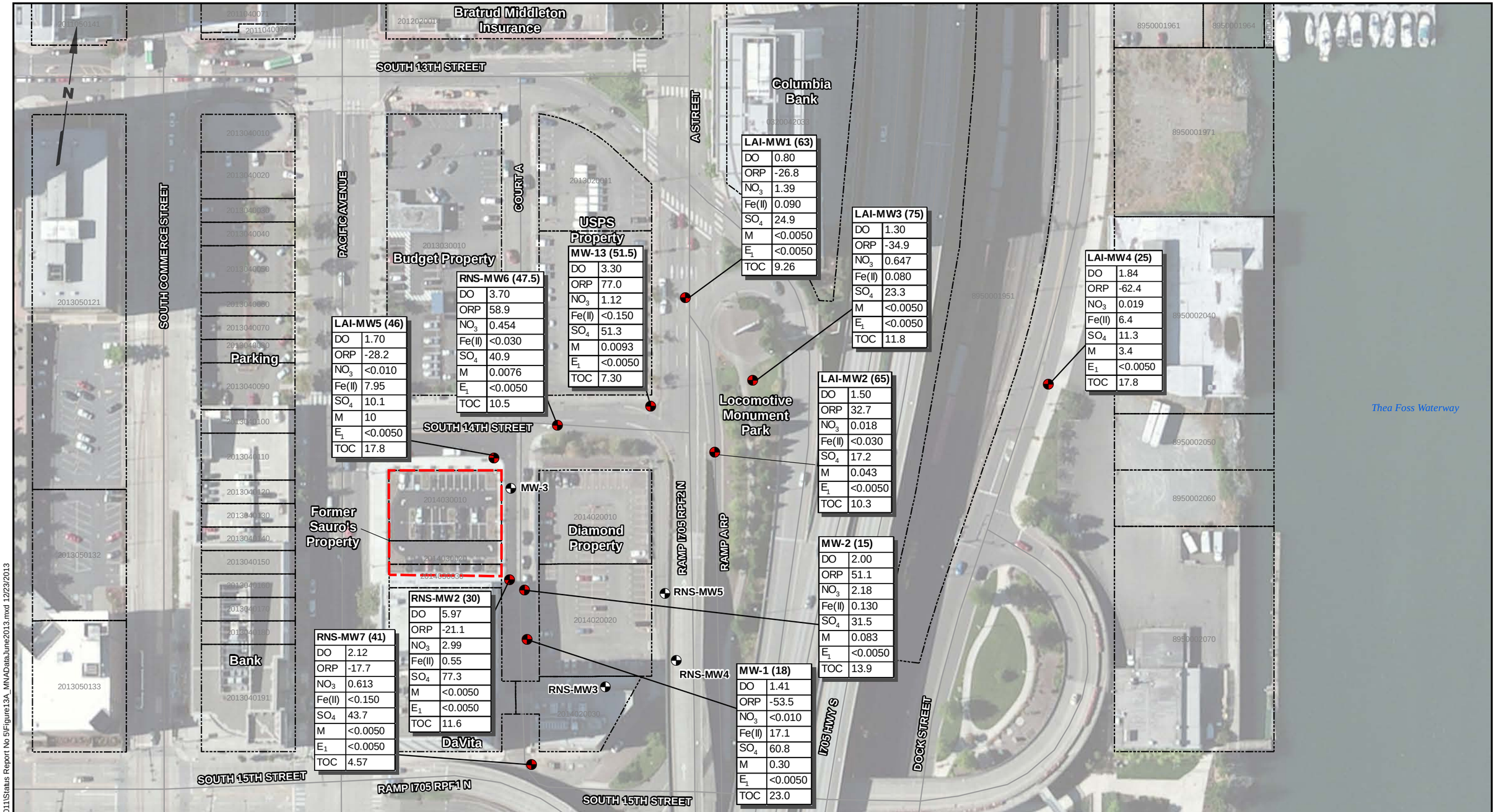
LANDAU ASSOCIATES

Sauro's Property RI/FS
Tacoma, Washington

Vertical Extent of cis-1,2-DCE
September 2013

Figure
12B

| G:\Projects\094\048\013\011\Status Report No 5\Plan-GeoSections September2013.dwg (A) "Figure 12B" 12/20/2013



LAI-MW1 (63)	
DO	0.80
ORP	-26.8
NO_3	1.39
Fe(II)	0.090
SO_4	24.9
M	<0.0050
E_1	<0.0050
TOC	9.26

LAI-MW3 (75)	
DO	1.30
ORP	-34.9
NO_3	0.647
Fe(II)	0.080
SO_4	23.3
M	<0.0050
E_1	<0.0050
TOC	11.8

LAI-MW4 (25)	
DO	1.84
ORP	-62.4
NO_3	0.019
Fe(II)	6.4
SO_4	11.3
M	3.4
E_1	<0.0050
TOC	17.8

MW-13 (51.5)	
DO	3.30
ORP	77.0
NO_3	1.12
Fe(II)	<0.150
SO_4	51.3
M	0.0093
E_1	<0.0050
TOC	7.30

RNS-MW6 (47.5)	
DO	3.70
ORP	58.9
NO_3	0.454
Fe(II)	<0.030
SO_4	40.9
M	0.0076
E_1	<0.0050
TOC	10.5

LAI-MW5 (46)	
DO	1.70
ORP	-28.2
NO_3	<0.010
Fe(II)	7.95
SO_4	10.1
M	10
E_1	<0.0050
TOC	17.8

LAI-MW2 (65)	
DO	1.50
ORP	32.7
NO_3	0.018
Fe(II)	<0.030
SO_4	17.2
M	0.043
E_1	<0.0050
TOC	10.3

MW-2 (15)	
DO	2.00
ORP	51.1
NO_3	2.18
Fe(II)	0.130
SO_4	31.5
M	0.083
E_1	<0.0050
TOC	13.9

RNS-MW2 (30)	
DO	5.97
ORP	-21.1
NO_3	2.99
Fe(II)	0.55
SO_4	77.3
M	<0.0050
E_1	<0.0050
TOC	11.6

RNS-MW7 (41)	
DO	2.12
ORP	-17.7
NO_3	0.613
Fe(II)	<0.150
SO_4	43.7
M	<0.0050
E_1	<0.0050
TOC	4.57

MW-1 (18)	
DO	1.41
ORP	-53.5
NO_3	<0.010
Fe(II)	17.1
SO_4	60.8
M	0.30
E_1	<0.0050
TOC	23.0

Legend

- Other Existing Monitoring Wells
- Sampled Monitoring Wells (Depth Sampled in Feet)
- Subject Property

Notes

1. All wells currently sampled for VOCs are proposed here to be sampled for MNA1 parameters.
2. DO = Dissolved Oxygen
   ORP = Oxidation-Reduction Potential
   NO_3 = Nitrate
   Fe(II) = Iron
   SO_4 = Sulfate
   M = Methane
   E_1 = Ethane
   TOC = Total Organic Carbon
   NS = Not Sampled
   E_2 = Ethene
   A = Acetylene
3. E_2 and A nondetect at all locations.

0 100 200

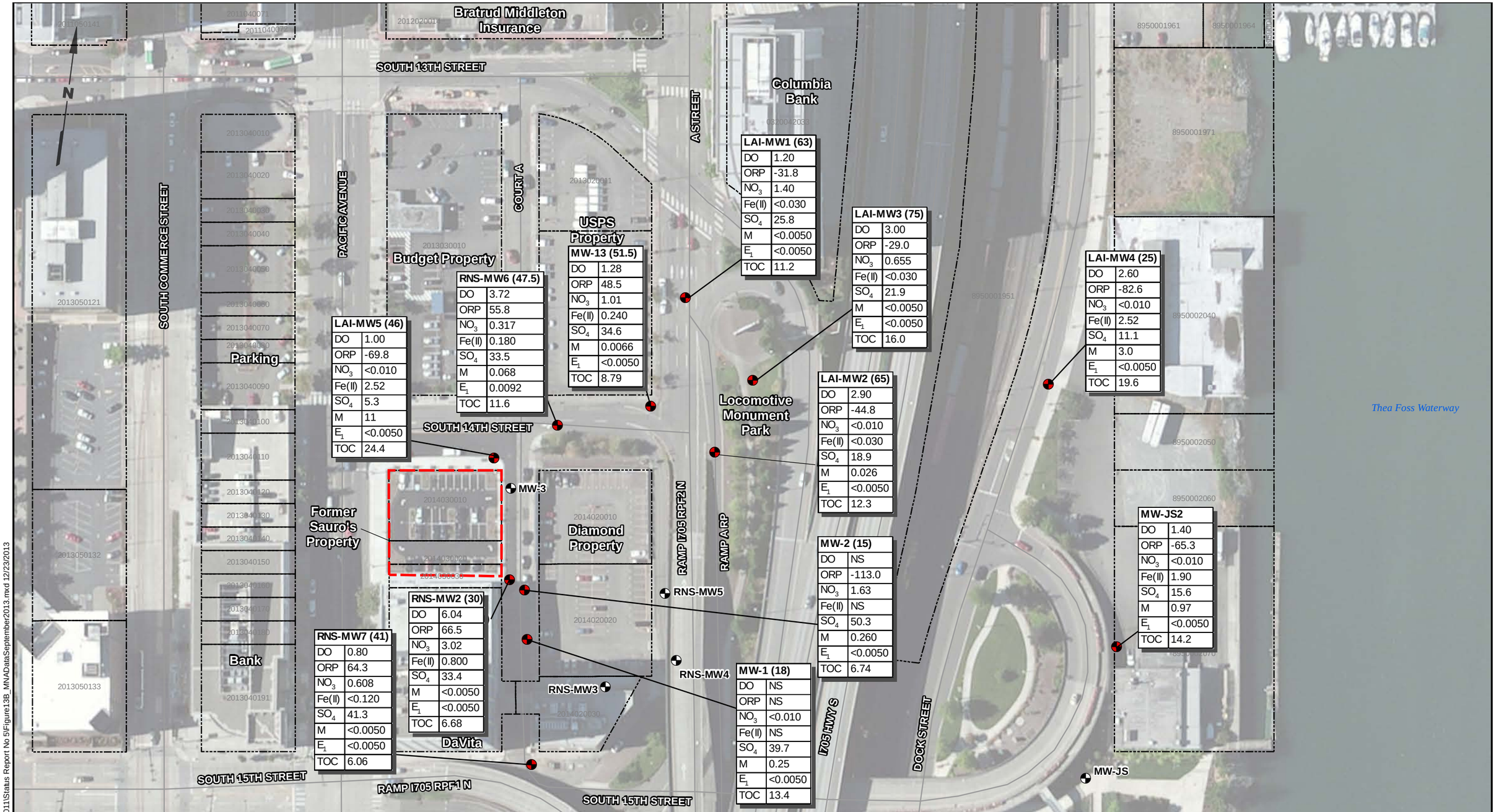
Scale in Feet

Data Source: Pierce County GIS; Esri World Imagery

LANDAU ASSOCIATES

Sauro's Property RI/FS Tacoma, Washington	**Monitored Natural Attenuation Data June 2013**	Figure 13A

G:\Projects\094048\013\011\Status Report No 5\Figure13A_MNADataJune2013.mxd 12/23/2013



Legend

- Other Existing Monitoring Wells
- Sampled Monitoring Wells (Depth Sampled in Feet)
- Subject Property

Notes

1. All wells currently sampled for VOCs are proposed here to be sampled for MNA1 parameters.
2. DO = Dissolved Oxygen
   ORP = Oxidation-Reduction Potential
   NO_3 = Nitrate
   Fe(II) = Iron
   SO_4 = Sulfate
   M = Methane
   E_1 = Ethane
   TOC = Total Organic Carbon
   NS = Not Sampled
   E_2 = Ethene
   A = Acetylene
3. E_2 and A nondetect at all locations.

0 100 200
Scale in Feet

Data Source: Pierce County GIS; Esri World Imagery

LANDAU ASSOCIATES

Sauro's Property RI/FS Tacoma, Washington	**Monitored Natural Attenuation Data September 2013**	Figure 13B

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TABLE 1
QUARTERLY SAMPLING LOCATIONS, DEPTHS, AND METHODS
SAURO'S PROPERTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
TACOMA, WASHINGTON

Location	VOCs Sampling Depth (ft)	VOCs Concentration Data Sample Method	MNA Parameters Sampling Depth (ft) (c)	MNA Parameters Sample Method
LAI-MW1	63	PDB	63	WAT
LAI-MW2	65	PDB	65	WAT
LAI-MW3	75	PDB	75	WAT
LAI-MW4	25	PDB	25	WAT
LAI-MW5	42	PDB	46	WAT
LAI-MW5	50	PDB		
MW1-PP	18(b)	PP	18(b)	PP
MW2-PP	15(b)	PP	15(b)	PP
MW13	51.5	PDB	51.5	WAT
RNS-MW2	21.5	PDB	30	WAT
RNS-MW2	38.5	PDB		
RNS-MW6	42.5	PDB	47.5	WAT
RNS-MW6	52.5	PDB		
RNS-MW7(a)	NS	NS	41	WAT

NOTES:
Sample Method
PP = peristaltic pump w/dedicated tubing
PDB = permeable diffusion bag
WAT = (dedicated) Waterra foot valve (w/dedicated tubing 5/8" HDPE tubing)
Q = Quarterly
(a) Only sampled for MNA parameters
(b) It is assumed that the bottom of the installed dedicated tubing is located at the middle of the well screen
(c) For wells with two VOC sampling depths (RNS-MW2, RNS-MW6, and LAI-MW5), the MNA sampling depth is the mid-point between the two VOC sampling depths

TABLE 2
QUARTERLY SAMPLING LABORATORY AND FIELD PARAMETER DETAILS
SAURO'S PROPERTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
TACOMA, WASHINGTON

Groundwater Analytical Parameters	EPA Analytical Method	Practical Quantitation Limit	Preservation	Maximum Holding Time (Days)
Volatile Organic Compounds (VOCs) (a)				
Tetrachloroethene	8260C	0.2 µg/L	Add HCl to pH<2; Store cool at 6°C	14
Trichloroethene	8260C	0.2 µg/L	Add HCl to pH<2; Store cool at 6°C	14
cis-1,2-Dichloroethene	8260C	0.2 µg/L	Add HCl to pH<2; Store cool at 6°C	14
Vinyl Chloride	8260C	0.2 µg/L	Add HCl to pH<2; Store cool at 6°C	14
Monitored Natural Attenuation (MNA) (b)				
Chloride	SM 4500-CL-E	1.0 mg/L	Store cool at 6°C	28
Nitrate (NO_3) (Total) as N	353.2	0.010 mg/L	Store cool at 6°C	48 hours
Nitrite (NO_2) (Total) as N	353.2	0.0100 mg/L	Store cool at 6°C	48 hours
Total Organic Carbon (TOC)	SM 5310B	1.00 mg/L	Add 2mL 9N H_2SO_4 pH<2; Store at 6°C	28
Sulfate (SO_4) (Total)	SM 4500-SO_4 E	5.0 mg/L	Store cool at 6°C	28
Sulfide (SO_2) (Total)	SM 4500-S2 D	0.150 mg/L	Store cool at 6°C	7
MEEA (c)	RSK 175	0.0050 mg/L	Store cool at 6°C	14

Groundwater Field Parameters	Data Collection Method	Instrument	Units
Monitored Natural Attenuation (MNA) (b)			
Conductivity	Field	YSI (b)	µS/cm
Dissolved Oxygen (DO)	Field	YSI	mg/L
Oxidation Reduction Potential (ORP)	Field	YSI	units +/- mV
pH	Field	YSI	unitless
Temperature	Field	YSI	(°F)
Ferrous Iron (Fe^{2+}) (d)	Field	Hach Kit	mg/L
Turbidity	Field	Turbidity Meter	NTU
Water Level (e)(f)	Field	Water Level Indicator	0.01 foot

Notes:
(a) VOC samples are collected at the following 10 well locations: MW-1, MW-2, MW-13, LAI-MW1, LAI-MW2, LAI-MW3, LAI-MW4, LAI-MW5, RNS-MW2, and RNS-MW6.
(b) MNA analytical samples and field parameters are collected at the following 11 well locations: MW-1, MW-2, MW-13, LAI-MW1, LAI-MW2, LAI-MW3, LAI-MW4, LAI-MW5, RNS-MW2, RNS-MW6, and RNS-MW7.
(c) Analysis run by Test America; all others by the City of Tacoma's environmental lab
(d) YSI shall be recalibrated daily
(e) Water levels are collected at all wells during sampling.
(f) Each quarter during the VOC or MNA sampling events, water levels will be collected at all 15 well locations. The four well locations that are not sampled but require water level collection include: MW-3, RNS-MW3, RNS-MW4, and RNS-MW5.

TABLE 3
CONSTITUENTS OF CONCERN GROUNDWATER ANALYTICAL RESULTS
SAURO'S PROPERTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
TACOMA, WASHINGTON

			VOLATILES (ug/L) Method SW8260B				
Location	Lab ID	Date Collected	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	Benzene
LAI-MW1	MX72A	5/21/2008	0.2 U	**0.2**	**0.9**	0.2 U	0.2 U
LAI-MW1 (63)	OX16J	4/28/2009	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
LAI-MW1 (63)	QV52I	5/5/2010	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
LAI-MW1 (63)	RF48I	7/21/2010	0.2 U	**0.8**	0.2 U	0.2 U	0.2 U
LAI-MW1 (63)	2010-12739	10/27/2010	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
LAI-MW1 (63)	2011-00970	1/27/2011	**2.1**	**0.5** J	**0.4** J	0.2 U	0.2 U
LAI-MW1 (63)	T104125-04	4/21/2011	**1.8**	**0.5**	**0.2**	0.2 U	0.2 U
LAI-MW1 (63)	T107004-04	7/1/2011	**4.5**	**1.0**	**0.5** J	1.0 U	1.0 U
LAI-MW1 (63)	T110107-04	10/18/2011	**0.6**	0.2 U	0.1 U	0.07 U	0.1 U
LAI-MW1 (63)	T201046-04	1/9/2012	**0.4** J	0.5 U	0.5 U	0.5 U	0.5 U
LAI-MW1 (63)	T204007-05	4/11/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
LAI-MW1 (63)	T207012-05	7/16/2012	**1.1** J	0.5 U	0.2 U	0.2 U	0.5 U
LAI-MW1 (63)	T210008-05	10/9/2012	0.2 U	0.07 U	0.1 U	0.1 U	0.2 U
LAI-MW1 (63)	T301121-05	1/15/2013	0.5 U	0.2 U	0.5 U	0.2 U	0.5 U
LAI-MW1 (63)	T304010-05	4/2/2013	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U
LAI-MW1 (63)	T306134-05	6/18/2013	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U
LAI-MW1 (63)	T309065-05	9/9/2013	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U
LAI-MW2	MX18C	5/19/2008	**120**	**62**	**100**	**1.4**	0.2 U
LAI-MW2 (65)	OX16K	4/28/2009	**300**	**130**	**180**	**1.2**	0.2 U
LAI-MW2 (65)	QV52F	5/5/2010	**330**	**150**	**190**	**1.0**	0.2 U
LAI-MW2 (65)	RF48E	7/21/2010	**340**	**120**	**160**	2.0 U	2.0 U
LAI-MW2 (65)	2010-12740	10/27/2010	**430**	**160**	**200**	8.0 U	8.0 U
LAI-MW2 (65)	2011-00971	1/27/2011	**410**	**150**	**180**	**1.3**	0.2 U
LAI-MW2 (65)	T104125-05	4/21/2011	**360**	**130**	**150**	**1.0**	0.2 U
LAI-MW2 (65)	T107004-05	7/1/2011	**370**	**140**	**160**	**1.0**	1.0 U
LAI-MW2 (65)	T110107-05	10/18/2011	**350**	**120**	**160**	**1.0**	0.1 U
LAI-MW2 (65)	T201046-05	1/9/2012	**240** J	**100**	**150**	5.0 U	5.0 U
LAI-MW2 (65)	T204007-06	4/11/2012	**50**	**89**	**110**	**0.9**	0.5 U
LAI-MW2 (65)	T207012-06	7/3/2012	**340**	**110**	**140**	**3.0** J	0.5 U
LAI-MW2 (65)	T210008-06	10/9/2012	**410**	**140**	**150**	**0.8**	0.2 U
LAI-MW2 (65)	T301121-06	1/15/2013	**390**	**130**	**140**	**0.8**	0.5 U
LAI-MW2 (65)	T304010-06	4/2/2013	**380**	**110**	**100**	**0.7**	0.5 U
LAI-MW2 (65)	T306134-06	6/18/2013	**280** J	**87** J	**120** J	**0.8**	0.5 U
LAI-MW2 (65)	T309065-06	9/9/2013	**360**	**120**	**160** J	**0.8**	0.5 U
LAI-MW3	MX18B	5/19/2008	**66**	**37**	**65**	**0.5**	0.2 U
LAI-MW3 (75)	OX30B	4/30/2009	**63**	**45**	**76**	**0.4**	0.2 U
LAI-MW3-GF	OX30F	5/1/2009	**88**	**40**	**71**	**0.3**	0.2 U
LAI-MW3 (75)	QV52H	5/5/2010	**47**	**35**	**52**	0.2 U	0.2 U
LAI-MW3 (75)	RF48F	7/21/2010	**91**	**39**	**52**	0.6 U	0.6 U
LAI-MW3 (75)	2010-12741	10/27/2010	**120**	**53**	**73**	8.0 U	8.0 U
LAI-MW3 (75)	2011-00972	1/27/2011	**120**	**52**	**64**	**0.3**	0.2 U
LAI-MW3 (75)	T104125-06	4/21/2011	**100**	**46**	**59**	0.2 U	0.2 U
LAI-MW3 (75)	T107004-06	7/1/2011	**110**	**42**	**52**	1.0 U	1.0 U
LAI-MW3 (75)	T110107-06	10/18/2011	**100**	**39**	**51**	**0.1** J	0.1 U
LAI-MW3 (75)	T201046-06	1/9/2012	**70** J	**37**	**56**	**0.1** J	0.5 U
LAI-MW3 (75)	T204007-07	4/11/2012	**74**	**37**	**51**	**0.2** J	0.5 U
LAI-MW3 (75)	T207012-07	7/3/2012	**61**	**16**	**23**	0.2 U	0.5 U
LAI-MW3 (75)	T210008-07	10/9/2012	**5.1**	**4.2**	**15**	0.1 U	0.2 U
LAI-MW3 (75)	T301121-07	1/15/2013	**120**	**37**	**48**	**0.1** J	0.5 U
LAI-MW3 (75)	T304010-07	4/2/2013	**97**	**33**	**36**	0.2 U	0.5 U
LAI-MW3 (75)	T306134-07	6/18/2013	**72** J	**27**	**44**	0.2 U	0.5 U
LAI-MW3 (75)	T309065-07	9/9/2013	**78**	**34**	**54**	0.2 U	0.5 U
LAI-MW4	MX18A	5/19/2008	0.2 U	**0.2**	**0.9**	**0.6**	**9.3**
LAI-MW4-PP	OX16M	4/28/2009	0.2 U	0.2 U	**0.5**	**0.5**	0.2 U

TABLE 3
CONSTITUENTS OF CONCERN GROUNDWATER ANALYTICAL RESULTS
SAURO'S PROPERTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
TACOMA, WASHINGTON

			VOLATILES (ug/L) Method SW8260B				
Location	Lab ID	Date Collected	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	Benzene
LAI-MW4 (25)	OX16L	4/28/2009	0.2 U	0.2 U	**0.6**	**0.3**	0.2 U
LAI-MW4 (25)	QV52G	5/5/2010	0.2 U	0.2 U	**0.4**	**0.2**	0.2 U
LAI-MW4 (25)	RF48D	7/21/2010	0.2 U	**1.0**	**0.6**	**0.2**	0.2 U
LAI-MW4 (25)	2010-12742	10/27/2010	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
LAI-MW4 (25)	2011-00973	1/27/2011	1.0 U	**0.3** J	**0.7** J	0.2 U	0.2 U
LAI-MW4 (25)	T104125-07	4/21/2011	**1.0**	**0.3**	**0.6**	0.2 U	0.2 U
LAI-MW4 (25)	T107004-07	7/1/2011	**3.3**	**0.7** J	**0.7** J	**0.2** J	1.0 U
LAI-MW4 (25)	T110107-07	10/18/2011	**0.3** J	0.2 U	**0.5**	0.07 U	0.1 U
LAI-MW4 (25) DUP	T110107-15	10/18/2011	**0.6**	0.2 U	**0.5**	0.07 U	0.1 U
LAI-MW4 (25)	T201046-07	1/9/2012	**0.2** J	0.5 U	0.5 U	0.5 U	0.5 U
LAI-MW4 (25)	T204007-08	4/10/2012	0.5 U	0.5 U	**0.6**	**0.2** J	**0.5**
LAI-MW4 (25) DUP	T204007-15	4/10/2012	0.5 U	0.5 U	**0.5**	**0.2**	**0.4**
LAI-MW4 (25)	T207012-08	7/3/2012	0.2 U	0.5 U	**0.5**	**2.0** J	0.5 U
LAI-MW4 (25)	T210008-08	10/9/2012	0.2 U	0.07 U	**0.8** J	0.1 U	**0.3** J
LAI-MW4 (25)	T301121-08	1/15/2013	0.5 U	0.2 U	**0.3** J	0.2 U	**0.3** J
LAI-MW4 (25)	T304010-08	4/2/2013	0.2 U	0.2 U	**0.3**	0.2 U	0.5 U
LAI-MW4 (25)	T306134-08	6/18/2013	0.2 U	0.2 U	**0.3**	0.2 U	**0.6**
LAI-MW4 (25)	T309065-08	9/9/2013	0.2 U	0.2 U	**0.6**	0.2 U	**0.8**
LAI-MW5	RV86A	11/9/2010	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
LAI-MW5	T102071-01	2/15/2011	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
LAI-MW5	T110107-08	10/18/2011	0.2 U	0.2 U	0.1 U	0.07 U	0.1 U
LAI-MW5	T201046-08	1/9/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
LAI-MW5	T204007-09	4/11/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
LAI-MW5 (42)	T104125-08	4/21/2011	**0.4**	0.2 U	0.2 U	0.2 U	0.2 U
LAI-MW5 (42)	T107004-08	7/1/2011	**1.9**	**0.4** J	**0.3** J	1.0 U	1.0 U
LAI-MW5 (42)	T110107-08	10/18/2011	0.2 U	0.2 U	0.1 U	0.07 U	0.1 U
LAI-MW5 (42)	T201046-08	1/9/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
LAI-MW5 (42)	T204007-09	4/11/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
LAI-MW5 (42)	T207012-09	7/3/2012	0.2 U	0.5 U	0.2 U	**0.3** J	0.5 U
LAI-MW5 (42)	T210008-09	10/9/2012	0.2 U	0.07 U	**0.1** J	**0.1** J	0.2 U
LAI-MW5 (42)	T301121-09	1/15/2013	0.5 U	0.2 U	0.5 U	0.2 U	0.5 U
LAI-MW5 (42) DUP	T301121-15	1/15/2013	0.5 U	0.2 U	0.5 U	0.2 U	0.5 U
LAI-MW5 (42)	T304010-09	4/2/2013	**0.4**	0.2 U	0.2 U	0.2 U	0.5 U
LAI-MW5 (42)	T306134-09	6/18/2013	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U
LAI-MW5 (42)	T309065-09	9/9/2013	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U
LAI-MW5 (50)	T104125-09	4/21/2011	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
LAI-MW5 (50) DUP	T104125-15	4/21/2011	**3.3**	**0.5**	**0.3**	0.2 U	0.2 U
LAI-MW5 (50)	T107004-09	7/1/2011	**1.2** J	**0.2** J	**0.1** J	1.0 U	1.0 U
LAI-MW5 (50) DUP	T107004-15	7/1/2011	**8.3**	**1.3**	**0.5** J	**0.07** J	1.0 U
LAI-MW5 (50)	T110107-09	10/18/2011	0.2 U	0.2 U	0.1 U	0.07 U	0.1 U
LAI-MW5 (50)	T201046-09	1/9/2012	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
LAI-MW5 (50)	T204007-10	4/11/2012	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
LAI-MW5 (50)	T207012-10	7/3/2012	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
LAI-MW5 (50)	T210008-10	10/9/2012	0.2 U	0.07 U	**0.1** J	0.1 U	0.2 U
LAI-MW5 (50)	T301121-10	1/15/2013	0.5 U	0.2 U	0.5 U	0.2 U	0.5 U
LAI-MW5 (50)	T304010-10	4/2/2013	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U
LAI-MW5 (50)	T306134-10	6/18/2013	0.2 U	0.2 U	0.2 U	0.2 U	0.5 U
LAI-MW5 (50)	T309065-10	9/9/2013	**0.3**	0.2 U	0.2 U	0.2 U	0.5 U
MW-1	GeoEngineers	1/25/2001	1 U	1 U	**24.7**	**33.3**	NA
MW1 (20)	Farallon	5/21/2004	0.2 U	0.2 U	**2.5**	**2.1**	NA
MW-1	RNS	7/14/2006	1 U	1 U	**1**	**7**	NA
MW-1	RNS	12/7/2006	1 U	1 U	**1.3**	**0.4**	NA
MW1	Farallon	6/4/2007	0.020 U	0.020 U	**0.81**	**0.52**	NA
MW1-PP	OX16G	4/28/2009	0.2 U	0.2 U	**0.5**	0.2 U	0.2 U

TABLE 3
CONSTITUENTS OF CONCERN GROUNDWATER ANALYTICAL RESULTS
SAURO'S PROPERTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
TACOMA, WASHINGTON

			VOLATILES (ug/L) Method SW8260B				
Location	Lab ID	Date Collected	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	Benzene
MW-1	QV52M	5/5/2010	0.2 U	0.2 U	**0.5**	0.2 U	0.2 U
MW1-PP	RF48N	7/21/2010	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW1-PP	2010-13068	11/3/2010	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
MW1-PP	2011-00967	1/27/2011	**0.6** J	0.2 U	**0.3** J	0.2 U	0.2 U
MW1-PP	T104125-01	4/21/2011	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
MW1-PP	T107004-01	7/1/2011	1.0 U	1.0 U	**0.2** J	**0.07** J	1.0 U
MW1-PP	T110107-01	10/18/2011	0.2 U	0.2 U	**0.6**	0.07 U	0.1 U
MW1-PP	T201046-01	1/9/2012	0.5 UJ	0.5 U	**1.0**	0.5 U	0.5 U
MW1-PP	T204007-02	4/10/2012	0.5 U	0.5 U	**0.2** J	0.5 U	0.5 U
MW1-PP	T207012-02	7/3/2012	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
MW1-PP DUP	T207012-15	7/3/2012	0.2 U	0.5 U	0.2 U	0.2 U	0.5 U
MW1-PP	T210008-02	10/9/2012	0.2 U	0.07 U	**0.6**	0.1 U	0.2 U
MW1-PP	T301121-02	1/15/2013	0.5 U	0.2 U	**0.2** J	0.2 U	0.5 U
MW1-PP	T304010-02	4/2/2013	0.2 U	0.2 U	**0.3**	0.2 U	0.5 U
MW1-PP	T306134-02	6/18/2013	0.2 U	0.2 U	**0.3**	0.2 U	0.5 U
MW1-PP	T309065-02	9/9/2013	0.2 U	0.2 U	**0.5**	0.2 U	0.5 U
MW-2	GeoEngineers	1/25/2001	**7.37**	**10.7**	**134**	**118**	NA
MW2 (17)	Farallon	5/21/2004	**2.6**	**9.6**	**83**	**60**	NA
MW-2	RNS	12/7/2006	**3.4**	**4.8**	**42**	**7.6**	NA
MW2	Farallon	6/4/2007	**0.87**	**2**	**12**	**1.8**	NA
MW2-PP	OX16H	4/29/2009	**1.0**	**1.6**	**7.4**	**0.2**	0.2 U
MW-2	QV52E	5/5/2010	**0.3**	**0.9**	**5.5**	**0.4**	0.2 U
MW2-PP	RF48O	7/21/2010	0.2 U	**0.3**	**1.0**	0.2 U	0.2 U
MW2-PP	2010-13069	11/3/2010	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
MW2-PP	2011-00968	1/27/2011	**2**	**1.5**	**4.2**	**1.2**	0.2 U
MW2-PP	T104125-02	4/21/2011	**1.0**	**1.3**	**3.9**	0.2 U	0.2 U
MW2-PP	T107004-02	7/1/2011	**1.7**	**1.4**	**3.4**	1.0 U	1.0 U
MW2-PP	T110107-02	10/18/2011	**0.9**	**0.9**	**2.4**	**0.6**	0.1 U
MW2-PP	T201046-02	1/6/2012	**0.8** J	**1.0** J	**3.8** J	**0.7** J	0.5 UJ
MW2-PP	T204007-03	4/10/2012	**1.0**	**0.8**	**2.4**	**0.1** J	0.5 U
MW2-PP	T207012-03	7/3/2012	0.2 U	0.5 U	**1.6**	0.2 U	0.5 U
MW2-PP	T210008-03	10/9/2012	**0.9**	**1.0**	**2.3**	**0.2**	0.2 U
MW2-PP	T301121-03	1/15/2013	**0.5**	**0.8**	**3.1**	**1.4**	0.5 U
MW2-PP	T304010-03	4/2/2013	**0.5** J	**0.7** J	**1.2** J	0.2 UJ	0.5 UJ
MW2-PP	T306134-03	6/18/2013	**0.7**	**0.8**	**2.7**	**0.3**	0.5 U
MW2-PP	T309065-03	9/9/2013	**0.7**	**0.6**	**1.4**	**0.2**	0.5 U
MW13	Farallon	10/18/2007	**420**	**130**	**190**	2.0 U	NA
MW-13 (51.5)	OX16E	4/28/2009	**540**	**190**	**180**	**1.5**	0.2 U
MW13-GF	OX30G	5/1/2009	**460**	**140**	**170**	**0.8**	0.2 U
MW-13 (51.5)	QV52J	5/5/2010	**450**	**160**	**170**	**1.1**	0.2 U
MW13 (51.5)	RF48H	7/21/2010	**520**	**160**	**150**	2.0 U	2.0 U
MW13 (51.5)	2010-12738	10/27/1020	**530**	**150**	**160**	8.0 U	8.0 U
MW13 (51.5)	2011-00969	1/27/2011	**640**	**180**	**170**	**1.3**	0.2 U
MW13 (51.5)	T104125-03	4/21/2011	**460**	**130**	**120**	**0.8**	0.2 U
MW13 (51.5)	T107004-03	7/1/2011	**600**	**160**	**160**	**1.0**	1.0 U
MW13 (51.5)	T110107-03	10/18/2011	**450**	**120**	**120**	**0.8**	0.1 U
MW13 (51.5)	T201046-03	1/9/2012	**400** J	**130**	**140**	**1.7**	0.5 U
MW13 (51.5)	T204007-04	4/11/2012	**360**	**100**	**100**	**1.0**	0.5 U
MW13 (51.5)	T207012-04	7/3/2012	**380**	**100**	**120**	**2.7** J	0.5 U
MW13 (51.5)	T210008-04	10/9/2012	**480**	**140**	**120**	**0.8**	0.2 U
MW13 (51.5) DUP	T210008-15	10/9/2012	**500**	**120**		**0.7**	0.2 U
MW13 (51.5)	T301121-04	1/15/2013	**550**	**120**	**110**	**0.8**	0.5 U
MW13 (51.5)	T304010-04	4/2/2013	**570**	**130**	**98**	**0.7**	0.5 U
MW13 (51.5)	T306134-04	6/18/2013	**400** J	**96** J	**110** J	**0.8**	0.5 U
MW13 (51.5)	T309065-04	9/9/2013	**430**	**110**	**120** J	**0.8**	0.5 U

TABLE 3
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SAURO'S PROPERTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
TACOMA, WASHINGTON

			VOLATILES (ug/L) Method SW8260B				
Location	Lab ID	Date Collected	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	Benzene
RNS-MW2 (44)	RNS	6/30/2006	**15.4**	**14**	1 U	2 U	NA
RNSMW2	RNS	12/7/2006	**11.1**	**1.7**	1.0 U	0.2 U	NA
RNSMW2-PP	OX15D	4/29/2009	**16**	**1.6**	**0.6**	0.2 U	0.2 U
RNS-MW2 (21.5)	OX15A	4/29/2009	**16**	**1.5**	**0.5**	0.2 U	0.2 U
RNS-MW2 (32.5)	OX15B	4/29/2009	**16**	**1.5**	**0.5**	0.2 U	0.2 U
RNS-MW2 (38.5)	OX15C	4/29/2009	**13**	**1.4**	**0.5**	0.2 U	0.2 U
RNS-MW2 (21.5)	QV52B	5/5/2010	**13.0**	**0.7**	**0.4**	0.2 U	0.2 U
RNS-MW2 (38.5)	QV52D	5/5/2010	**8.1**	**0.6**	**0.4**	0.2 U	0.2 U
RNS-MW2 (21.5)	RF48J	7/21/2010	**12**	**0.7**	**0.4**	0.2 U	0.2 U
RNS-MW2 (38.5)	RF48L	7/21/2010	**8.5**	**0.6**	**0.3**	0.2 U	0.2 U
RNS-MW2 (21.5)	2010-12743	10/27/2010	**20** J	8.0 U	8.0 U	8.0 U	8.0 U
RNS-MW2 (38.5)	2010-12744	10/27/2010	**16** J	8.0 U	8.0 U	8.0 U	8.0 U
RNS-MW2 (21.5)	2011-00974	1/27/2011	**16**	**1.4**	**0.7** J	0.2 U	0.2 U
RNS-MW2 (38.5)	2011-00975	1/27/2011	**14**	**1.1**	**0.6** J	0.2 U	0.2 U
RNS-MW2 (21.5)	T104125-10	4/21/2011	**9.2**	**0.9**	**0.4**	0.2 U	0.2 U
RNS-MW2 (38.5)	T104125-11	4/21/2011	**8.6**	**0.5**	**0.3**	0.2 U	0.2 U
RNS-MW2 (21.5)	T107004-10	7/1/2011	**8.8**	**0.8** J	**0.5** J	1.0 U	1.0 U
RNS-MW2 (38.5)	T107004-11	7/1/2011	**9.4**	**0.7** J	**0.3** J	1.0 U	1.0 U
RNS-MW2 (21.5)	T110107-10	10/18/2011	**25**	**1.2**	**0.6**	0.07 U	0.1 U
RNS-MW2 (21.5)	T201046-10	1/9/2012	**13** J	**1.0**	**1.0**	0.5 U	0.5 U
RNS-MW2 (21.5)	T204007-11	4/11/2012	**9.8**	**0.8**	**0.5**	0.5 U	0.5 U
RNS-MW2 (38.5)	T110107-11	10/18/2011	**23**	**1.2**	**0.7**	0.07 U	0.1 U
RNS-MW2 (38.5)	T201046-11	1/9/2012	**14** J	**0.9**	**0.8**	0.5 U	0.5 U
RNS-MW2 (38.5)	T204007-12	4/11/2012	**14**	**0.6**	**0.2** J	0.5 U	0.5 U
RNS-MW2 (21.5)	T207012-11	7/3/2012	**8.8**	0.5 U	0.2 U	0.2 U	0.5 U
RNS-MW2 (38.5)	T207012-12	7/3/2012	**11**	0.5 U	0.2 U	0.2 U	0.5 U
RNS-MW2 (21.5)	T210008-11	10/9/2012	**28**	**1.0**	**0.3**	0.1 U	0.2 U
RNS-MW2 (38.5)	T210008-12	10/9/2012	**25**	**1.0**	**0.2**	0.1 U	0.2 U
RNS-MW2 (21.5)	T301121-11	1/15/2013	**17**	**0.9** J	**0.4** J	0.2 U	0.5 U
RNS-MW2 (38.5)	T301121-12	1/15/2013	**16**	**0.9**	**0.3** J	0.2 U	0.5 U
RNS-MW2 (21.5)	T304010-11	4/2/2013	**14**	**0.7**	**0.4**	0.2 U	0.5 U
RNS-MW2 (38.5)	T304010-12	4/2/2013	**11**	**0.8**	**0.2**	0.2 U	0.5 U
RNS-MW2 (21.5)	T306134-11	6/18/2013	**7.8**	**0.4**	**0.2**	0.2 U	0.5 U
RNS-MW2 (38.5)	T306134-12	6/18/2013	**9.6**	**0.4**	**0.2**	0.2 U	0.5 U
RNS-MW2 (21.5)	T309065-11	9/9/2013	**22**	**0.8**	**0.3**	0.2 U	0.5 U
RNS-MW2 (38.5)	T309065-12	9/9/2013	**23**	**0.7**	**0.2**	0.2 U	0.5 U
RNS-MW3 (23)	RNS	6/30/2006	1 U	1 U	1 U	2 U	**56.4**
RNS-MW3 (14)	OX15I	4/29/2009	0.2 U	0.2 U	0.2 U	0.2 U	**92**
RNS-MW3 (19)	OX15J	4/29/2009	0.2 U	0.2 U	0.2 U	0.2 U	**110**
RNS-MW3 (18)	RF48C	7/21/2010	2.0 U	2.0 U	2.0 U	2.0 U	**110**
RNSMW4	RNS	12/8/2006	1.0 U	1.0 U	1.0 U	0.02 U	NA
RNSMW4	RNS	12/13/2006	1.0 U	1.0 U	1.0 U	0.02 U	NA
RNS-MW4 (39)	OX15H	4/29/2009	0.2 U	0.2 U	0.2 U	0.2 U	**15000**
RNS-MW4 (25)	RF48B	7/21/2010	100 U	100 U	100 U	100 U	**14000**
RNSMW5	RNS	12/8/2006	1.0 U	1.0 U	1.0 U	0.2 U	NA
RNSMW5 (26)	RNS	12/8/2006	0.02 U	0.03 U	0.02 U	0.025 U	NA
RNSMW5 (46)	RNS	12/8/2006	0.02 U	0.03 U	0.02 U	0.025 U	NA
RNSMW5	RNS	12/13/2006	1.0 U	1.0 U	1.0 U	0.2 U	NA
RNSMW5	Farallon	6/5/2007	0.020 U	0.020 U	0.020 U	0.020 U	NA
RNS-MW5 - (39.5)	OX15G	4/29/2009	0.2 U	0.2 U	0.2 U	0.2 U	**100**
RNS-MW5 - (39.5)	RF48A	7/21/2010	0.2 U	0.2 U	0.2 U	0.2 U	**53**
RNSMW6	RNS	12/13/2006	**258**	**64.7**	**162**	**0.72**	NA
RNSMW6 (36.5)	RNS	12/13/2006	**0.062**	0.03 U	0.02 U	0.025 U	NA

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TACOMA, WASHINGTON

			VOLATILES (ug/L) Method SW8260B				
Location	Lab ID	Date Collected	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	Benzene
RNSMW6 (59)	RNS	12/13/2006	**0.055**	0.03 U	0.02 U	0.025 U	NA
RNSMW6	Farallon	6/5/2007	**230**	**77**	**150**	1.0 U	NA
RNS-MW6 (42.5)	OX15E	4/29/2009	**180**	**87**	**100**	**0.4**	0.2 U
RNS-MW6 (52.5)	OX15F	4/29/2009	**190**	**98**	**150**	**0.9**	0.2 U
RNS-MW6 (42.5)	QV52K	5/5/2010	**96**	**70**	**37**	0.2 U	0.2 U
RNS-MW6 (52.5)	QV52L	5/5/2010	**260**	**110**	**89**	**0.3**	0.2 U
RNS-MW6 (42.5)	RF48G	7/21/2010	**300**	**110**	**36**	2.0 U	2.0 U
RNS-MW6 (52.5)	RF48P	7/21/2010	**620**	**130**	**78**	**0.4**	0.2 U
RNS-MW6 (42.5)	2010-12745	10/27/2010	**890**	**160**	**90**	8.0 U	8.0 U
RNS-MW6 (52.5)	2010-12746	10/27/2010	**530**	**120**	**140**	8.0 U	8.0 U
RNS-MW6 (42.5)	2011-00976	1/27/2011	**1100**	**250**	**93**	**0.3** J	0.2 U
RNS-MW6 (52.5)	2011-00977	1/27/2011	**720**	**170**	**140**	**0.9** J	0.2 U
RNS-MW6 (42.5)	T104125-12	4/21/2011	**1100**	**200**	**73**	**0.3**	0.2 U
RNS-MW6 (52.5)	T104125-13	4/21/2011	**580**	**130**	**100**	**0.7**	0.2 U
RNS-MW6 (42.5)	T107004-12	7/1/2011	**1000**	**96**	**96**	**0.4** J	1.0 U
RNS-MW6 (52.5)	T107004-13	7/1/2011	**1200**	**130**	**130**	**0.8** J	1.0 U
RNS-MW6 (42.5)	T110107-12	10/18/2011	**660**	**120**	**72**	**0.2** J	0.1 U
RNS-MW6 (42.5)	T201046-12	1/9/2012	**910** J	**170**	**60**	0.5 U	0.5 U
RNS-MW6 (42.5)	T204007-13	4/11/2012	**530**	**110**	**88**	**0.8**	0.5 U
RNS-MW6 (52.5)	T110107-13	10/18/2011	**580**	**88**	**92**	**0.7**	0.1 U
RNS-MW6 (52.5)	T201046-13	1/9/2012	**360** J	**83**	**89**	**0.7**	0.5 U
RNS-MW6 (52.5)	T204007-14	4/11/2012	**750**	**140**	**73**	**0.6**	0.5 U
RNS-MW6 (42.5)	T207012-13	7/3/2012	**330**	**93**	**37**	0.2 U	0.5 U
RNS-MW6 (52.5)	T207012-14	7/3/2012	**640**	**120**	**120**	**2.7** J	0.5 U
RNS-MW6 (42.5)	T21008-13	10/9/2012	**120**	**43**	**21**	0.1 U	0.2 U
RNS-MW6 (52.5)	T21008-14	10/9/2012	**1400**	**250**	**93**	**0.1** J	0.2 U
RNS-MW6 (42.5)	T301121-13	1/15/2013	**1300**	**210**	**79**	0.2 U	0.5 U
RNS-MW6 (52.5)	T301121-14	1/15/2013	**1200**	**160**	**110**	**0.2**	0.5 U
RNS-MW6 (42.5)	T304010-13	4/2/2013	**1500** J	**240**	**89**	2.0 U	5.0 U
RNS-MW6 (52.5)	T304010-14	4/2/2013	**950**	**150**	**89**	**0.5**	0.5 U
RNS-MW6 (42.5)	T306134-13	6/18/2013	**590** J	**190** J	**85** J	**0.5**	0.5 U
RNS-MW6 (52.5)	T306134-14	6/18/2013	**580** J	**170** J	**81** J	**0.5**	0.5 U
RNS-MW6 (42.5)	T309065-13	9/9/2013	**1100**	**260**	**130** J	0.2 U	0.5 U
RNS-MW6 (52.5)	T309065-14	9/9/2013	**630**	**130**	**140** J	**0.3**	0.5 U
RNS-MW7	RNS	12/13/2006	1.0 U	1.0 U	1.0 U	0.2 U	NA
RNS-MW7 (25)	RNS	12/13/2006	0.02 U	0.03 U	0.02 U	0.025 U	NA
RNS-MW7 (45)	RNS	12/13/2006	0.02 U	0.03 U	0.02 U	0.025 U	NA
RNS-MW7 (50.5)	RNS	12/13/2006	0.02 U	0.03 U	0.02 U	0.025 U	NA
RNS-MW7 (39)	OX15K	4/29/2009	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
RNS-MW7 (39)	RF48M	7/21/2010	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

U = Indicates the compound was undetected at the reported concentration.
J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Bold indicates detected compound.
NA = Not analyzed.
Sample Method
Pump = pump unknown
PP = peristaltic pump
GF = grundfos submersible pump
PDB = permeable diffusion bag
Grab = sample of purge water collected from drum

TABLE 4
GROUNDWATER ANALYTICAL RESULTS FOR WELL MW-JS2
SAURO'S PROPERTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
TACOMA, WASHINGTON

	MW-JS2 9/12/2013
CONSTITUENTS OF CONCERN	
Lab Sample ID: T309065-16	
Method SW8260B (ug/L)	
Tetrachloroethene	0.2 U
Trichloroethene	0.2 U
cis-1,2-Dichloroethene	0.2 U
Vinyl Chloride	0.2 U
CONVENTIONALS	
Lab Sample ID: T309098-14	
Methods EPA300/EPA 353.2/	
SM 4500-SO4 E (mg/L)	
Nitrate	0.010 U
Sulfate	**15.6**
Nitrite	**0.0280**
Methods EPA415.1/SM 5310 B (mg/L)	
Total Organic Carbon	**14.2**
Method SM 4500-Cl-E (mg/L)	
Chloride	**219**
Method SM4500-S2D (mg/L)	
Sulfide	0.150 U
DISSOLVED GASES (mg/L)	
Method RSK175	
Methane	0.0050 U
Ethane	0.0050 U
Ethylene	0.0050 U
Acetylene	0.0050 U
FIELD PARAMETERS	
Dissolved Oxygen (mg/L)	**1.40**
Oxidation Reduction Potential (mV)	**-65.3**
Iron (mg/L)	**1.90**

Note:
Groundwater samples were taken from a depth of approximately 16 feet below ground surface using a peristaltic pump
U = Indicates the compound was not detected at the reported preliminary quantitation limit (PQL).
Bold = Detected compound.

TABLE 5
MONITORED NATURAL ATTENUATION PARAMETERS
SAURO'S PROPERTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
TACOMA, WASHINGTON

	MW1-PP OX16G 4/28/2009	MW1-PP T209049-06 9/6/2012	MW1-PP T212133-06 12/20/2012	MW1-PP T304030-06 4/11/2013	MW1-PP T306001-06 6/19/2013	MW1-PP T309098-06 9/12/2013	MW2-PP OX16H 4/29/2009	MW2-PP T209049-07 9/6/2012	MW2-PP T212133-07 12/20/2012	MW2-PP T304030-07 4/11/2013	MW2-PP T306001-07 6/19/2013	MW2-PP T309098-07 9/12/2013	LAI-MW1 T209049-01 9/6/2012	LAI-MW1 T212133-01 12/21/2012	LAI-MW1 T304030-01 4/12/2013	LAI-MW1 T306001-01 6/20/2013
CONVENTIONALS																
Methods EPA300/EPA 353.2/																
SM 4500-SO4 E (mg/L)																
Nitrate	-	-	0.010 U	0.008 UJ	0.010 U	0.010 U	-	-	**0.477**	**2.03** J	**2.18**	**1.63**	**1.11**	**1.15**	**1.03** J	**1.39**
Sulfate	-	-	**46.5**	**65.4**	**60.8**	**39.7**	-	-	**37.9**	**27.7**	**31.5**	**50.3**	**27.5**	**17.7**	**22.4**	**24.9**
Nitrite			**0.0360**	**0.111** J	**0.0365**	**0.124**			**0.0209**	**0.0167** J	**0.0163**	**0.019**	**0.0131**	**0.0229**	**0.0109** J	**0.0139**
Methods EPA415.1/SM 5310 B (mg/L)																
Total Organic Carbon	-	-	**15.1**	**11.2**	**23.0**	**13.4**	-	-	**4.36**	**8.37**	**13.9**	**6.74**	**24.4**	**3.97**	**3.40**	**9.26**
Method SM 4500-Cl-E (mg/L)																
Chloride	-	-	**52.6**	**44.1**	**35.8**	**64.3**	-	-	**61.5**	**99.4**	**81.0**	**66.3**	**43.7**	**44.1**	**44.3**	**43.1**
Method SM4500-S2D (mg/L)																
Sulfide	-	-	**0.056** J	0.009 U	0.150 U	0.150 U	-	-	0.150 U	**0.053** Ja	0.150 U	0.150 U	**0.639**	0.150 U	0.150 U	0.150 U
DISSOLVED GASES (mg/L)																
Method RSK175																
Methane	-	**0.15**	**0.81**	**0.92**	**0.30**	**0.25**	-	0.0050 U	0.0050 U	**0.0043** J	**0.083**	**0.260**	**0.0034** J	0.0050 U	0.0050 U	0.0050 U
Ethane	-	0.0050 U	0.0050 U	0.0025 U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Ethylene	-	0.0050 U	0.0050 U	0.0025 U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Acetylene	-	0.0050 U	0.0050 U	0.0034 U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
FIELD PARAMETERS																
Dissolved Oxygen (mg/L)	-	-	**0.90**	**1.90**	**1.41** J	**-**	-	**1.0**	**3.10**	**4.00**	**2.00** J	**-**	**6.6**	**1.90**	**2.20**	**0.800** J
Oxidation Reduction Potential (mV)	**-**	**-**	**-67.7**	**-49.7**	**-53.5** J	**-**	**-**	**-63**	**-3.6**	**47.6**	**51.1** J	**-113.0**	**-24**	**-14.1**	**1.40**	**-26.8** J
Iron (mg/L)	-	**0.840**	**27.0**	**16.8**	**17.1** J	**-**	-	**0.0**	**2.25**	0.030 U	**0.130** J	**-**	**0.110**	**0.04**	**0.030**	**0.090** J

TABLE 5
MONITORED NATURAL ATTENUATION PARAMETERS
SAURO'S PROPERTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
TACOMA, WASHINGTON

	LAI-MW1 T309098-01 9/11/2013	LAI-MW2 T209049-02 9/6/2012	LAI-MW2 T212133-02 12/21/2012	LAI-MW2 T304030.02 4/12/2013	LAI-MW2 T306001-02 6/19/2013	LAI-MW2 T309098-02 9/11/2013	LAI-MW3-GF OX30F 5/1/2009	LAI-MW3 T209049-03 9/6/2012	LAI-MW3 T212133-03 12/21/2012	LAI-MW3 T304030-03 4/12/2013	LAI-MW3 T306001-03 6/20/2013	LAI-MW3 T309098-03 9/11/2013	LAI-MW4-PP OX16M 4/28/2009	LAI-MW4 T209049-04 9/6/2012	LAI-MW4 T212133-04 12/20/2012	LAI-MW4 T304030-04 4/12/2013
CONVENTIONALS																
Methods EPA300/EPA 353.2/																
SM 4500-SO4 E (mg/L)																
Nitrate	**1.40**	0.010 U	0.010 U	0.008 UJ	**0.018**	0.010 U	**0.5**	**0.506**	**0.165**	**0.416** J	**0.647**	**0.655**	0.1 UJ	**0.017**	0.010 U	0.008
Sulfate	**25.8**	**25.4**	**11.3**	**17.5**	**17.2**	**18.9**	**29.5**	**25.5**	**8.3**	**24.1**	**23.3**	**21.9**	**7.6**	**6.0**	**4.0** J	**6.9**
Nitrite	**0.025**	0.0100 U	**0.0161**	**0.0575** J	0.0100 U	**0.0150**		**0.0169**	**0.0357**	**0.0184** J	**0.0129**	**0.020**		**0.0069** J	**0.0480**	**0.0319**
Methods EPA415.1/SM 5310 B (mg/L)																
Total Organic Carbon	**11.2**	**28.4**	**2.38**	**4.11**	**10.3**	**12.3**	-	**27.8**	**4.36**	**6.35**	**11.8**	**16.0**	**3.34**	**34.9**	**10.7**	**6.73**
Method SM 4500-Cl-E (mg/L)																
Chloride	**47.8**	**12.4**	8.99 U	**10.0**	**10.8**	**13.0**	**-**	**15.3**	5.36 U	**13.8**	**17.1**	**19.3**	-	**36.0**	**33.1**	**31.3**
Method SM4500-S2D (mg/L)																
Sulfide	0.150 U	**0.132** J	**0.285**	0.150 U	0.150 U	0.150 U	-	**0.171** J	**0.076** J	**0.069** Ja	0.150 U	0.150 U	-	**0.118** J	**0.029** J	0.150
DISSOLVED GASES (mg/L)																
Method RSK175																
Methane	0.0050 U	**0.051**	**0.037**	**0.043**	**0.043**	**0.026**	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	-	**3.0**	**2.8** J	**3.7**
Ethane	0.0050 U	**0.0035** J	0.005 U	0.0050 U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0050
Ethylene	0.0050 U	0.0050 U	0.005 U	0.0050 U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0050
Acetylene	0.0050 U	0.0050 U	0.005 U	0.0050 U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0050
FIELD PARAMETERS																
Dissolved Oxygen (mg/L)	**1.20**	**9.3**	**3.06**	**2.80**	**1.50** J	**2.90**	**0.33**	**10**	**5.36**	**3.77**	**1.30** J	**3.00**	**0.08**	**4.8**	**2.52**	**1.86**
Oxidation Reduction Potential (mV)	**-31.8**	**-24**	**-19.2**	**-28.9**	**32.7** J	**-44.8**	**22.6**	**-23**	**-28.1**	**-7.10**	**-34.9** J	**-29.0**	**-140.7**	**-44**	**-75.0**	**-87.3**
Iron (mg/L)	0.030 U	**0.100**	**0.05**	**0.280**	0.030 UJ	0.030 U	**0.8**	**0.230**	**0.03**	**0.160**	**0.080** J	0.030 U	**4.0**	**1.98**	**4.70**	**5.55**

TABLE 5
MONITORED NATURAL ATTENUATION PARAMETERS
SAURO'S PROPERTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
TACOMA, WASHINGTON

		LAI-MW4 T306001-04 6/20/2013	LAI-MW4 T309098-04 9/11/2013	LAI-MW5-PP RV86A 11/9/2010	LAI-MW5 T209049-05 9/7/2012	LAI-MW5 DUP T209049-12 9/7/2012	LAI-MW5 T212133-05 12/19/2012	LAI-MW5 T304030-05 4/12/2013	LAI-MW5 T306001-05 6/19/2013	LAI-MW5 T309098-05 9/11/2013	MW-11D-PP OX16B 04/28/09	MW-13-GF OX30G 5/1/2009	MW-13 T209049-08 9/7/2012	MW-13 T212133-08 12/20/2012	MW-13 T304030-08 4/11/2013	MW-13 T306001-08 6/21/2013
CONVENTIONALS																
Methods EPA300/EPA 353.2/																
SM 4500-SO4 E (mg/L)																
Nitrate	UJ	**0.019**	0.010 U	0.1 U	0.010 U	0.010 U	0.010 U	0.008 UJ	0.010 U	0.010 U	0.1 U	**0.9**	**1.06**	**0.306**	**0.869** J	**1.12**
Sulfate		**11.3**	**11.1**	**0.1**	**11.2**	**15.3**	**5.4**	**13.6**	**10.1**	**5.3**	**34.9**	**39.2**	**35.8**	**24.1**	**33.1**	**51.3**
Nitrite	J	**0.0090**	**0.0550** J		**0.0203**	0.0100 U	**0.0490**	**0.138** J	**0.0373**	**0.092** J			**0.0187**	**0.0168**	**0.0709** J	**0.0136**
Methods EPA415.1/SM 5310 B (mg/L)																
Total Organic Carbon		**17.8**	**19.6**	**1.5**	**35.7**	**34.3**	**10.0**	**10.5**	**17.8**	**24.4**	1.50 U	**-**	**25.9**	**4.51**	**5.78** J	**7.30**
Method SM 4500-Cl-E (mg/L)																
Chloride		**32.2**	**32.6**	-	**62.3**	**62.3**	**58.4**	**57.5**	**59.7**	**56.3**	-	**-**	**9.43**	8.28 U	**8.16**	**9.91**
Method SM4500-S2D (mg/L)																
Sulfide	U	0.150 U	0.150 U	-	**0.414**	0.250 U	0.150 U	**0.131** Ja	0.150 U	0.150 U	-	-	**0.037** J	0.150 U	0.150 U	0.150 U
DISSOLVED GASES (mg/L)																
Method RSK175																
Methane		**3.4**	**3.0**	-	**5.7**	**4.7**	**5.2**	**6.6**	**10**	**11**	-	-	**0.013**	**0.006**	**0.0065**	**0.0093**
Ethane	U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	-	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Ethylene	U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	-	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Acetylene	U	0.0050 U	0.0050 U	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	-	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U
FIELD PARAMETERS																
Dissolved Oxygen (mg/L)		**1.84** J	**2.60**	-	**7.0**	-	**2.32**	**2.00**	**1.70** J	**1.00**	**1.04**	**0.10**	**4.5**	**3.20**	**1.48**	**3.30** J
Oxidation Reduction Potential (mV)		**-62.4** J	**-82.6**	**-88.9**	**-35**	**-**	**-12.2**	**-64.9**	**-28.2** J	**-69.8**	**-69.2**	**-13.5**	**-8.8**	**-1.1**	**-0.800**	**77.0** J
Iron (mg/L)		**6.4** J	**2.52**	**2.0**	**5.15**	-	**6.32**	**10.0**	**7.95** J	**2.52**	**1.2**	**0.05**	0.0 U	**0.28**	**0.550**	0.150 UJ

TABLE 5
MONITORED NATURAL ATTENUATION PARAMETERS
SAURO'S PROPERTY REMEDIAL INVESTIGATION/FEASIBILITY STUDY
TACOMA, WASHINGTON

	MW-13 T309098-08 9/10/2013	MW-13-DUP T304030-12 4/11/2013	RNS-MW2 T304030-09 4/11/2013	RNS-MW2 T306001-09 6/20/2013	RNS-MW2 T309098-09 9/10/2013	RNS-MW6 T209049-10 9/7/2012	RNS-MW6 T212133-10 12/20/2012	RNS-MW6 T304030-10 4/11/2013	RNS-MW6 T306001-10 6/21/2013	RNS-MW6 T309098-10 9/10/2013	RNS-MW7 T209049-11 9/6/2012	RNS-MW7 T212133-11 12/19/2012	RNS-MW7 T304030-11 4/11/2013	RNS-MW7 T306001-11 6/20/2013	RNS-MW7 T309098-11 9/10/2013
CONVENTIONALS															
Methods EPA300/EPA 353.2/															
SM 4500-SO4 E (mg/L)															
Nitrate	**1.01** J	**0.778** J	**2.17** J	**2.99**	**3.02** J	**0.442**	**0.049**	**0.206** J	**0.454**	**0.317** J	**0.656**	**0.352**	**0.465** J	**0.613**	**0.608** J
Sulfate	**34.6**	**33.6**	**37.0**	**77.3**	**33.4**	**68.6**	**25.4**	**32.8**	**40.9** J	**33.5**	**43.9**	**33.4**	**43.0**	**43.7**	**41.3**
Nitrite	**0.018** J	**0.138** J	**0.234** J	**0.0080**	**0.0200** J	**0.0050** J	**0.0333**	**0.0917** J	**0.0097**	**0.022** J	0.0100 U	**0.0293**	**0.0576** J	**0.0074**	**0.012** J
Methods EPA415.1/SM 5310 B (mg/L)															
Total Organic Carbon	**8.79** J	**7.18** J	**3.65**	**11.6**	**6.68**	**25**	**4.63**	**8.75**	**10.5**	**11.6**	**13.1**	**2.25**	**2.95**	**4.57**	**6.06**
Method SM 4500-Cl-E (mg/L)															
Chloride	**10.2**	**8.63**	**25.8**	**31.8**	**18.5**	**17.3**	**17.0**	**18.3**	**20.2**	**21.0**	**30.4**	**28.9**	**27.6**	**28.4**	**28.8**
Method SM4500-S2D (mg/L)															
Sulfide	0.150 U	0.150 U	0.150 U	0.150 U	0.150 U	**0.432**	0.150 U	**0.083** Ja	0.150 U	0.150 U	0.250 U	0.150 U	0.150 U	0.150 U	0.150 U
DISSOLVED GASES (mg/L)															
Method RSK175															
Methane	**0.0066**	**0.0063**	0.0050 U	0.0050 U	0.0050 U	**0.045**	**0.036**	**0.036**	**0.0076** J	**0.068**	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Ethane	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	**0.0046** J	0.0050 U	**0.0041** J	0.0050 U	**0.0092**	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Ethylene	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Acetylene	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
FIELD PARAMETERS															
Dissolved Oxygen (mg/L)	**1.28**	-	**8.60**	**5.97** J	**6.04**	**5.7**	**2.75**	**3.12**	**3.70** J	**3.72**	**8.6**	**1.94**	**0.840**	**2.12** J	**0.800**
Oxidation Reduction Potential (mV)	**48.5**	-	**134**	**-21.1** J	**66.5**	**-49**	**-6.8**	**16.8**	**58.9 J**	**55.8**	**-66**	**-23.9**	**-24.0**	**-17.7 J**	**64.3**
Iron (mg/L)	**0.240**	-	**0.150**	**0.55** J	**0.800**	0.0 U	0.030 U	0.150 U	0.030 UJ	**0.180**	**1.00**	0.030 U	**0.250**	0.150 UJ	0.120 U

U = Indicates the compound was not detected at the reported preliminary quantitation limit (PQL).
J = Indicates the analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Bold = Detected compound.
- = Not analyzed or not measured.

APPENDIX A

June 2013 Volatile Organic Compound Data
Third Quarter Sampling
Lab Report T306134

City of Tacoma
Environmental Services Laboratory

12 July 2013

Calvin Taylor
PW Science and Engineering
326 East D Street
Tacoma, WA 98421

Subject: Sauro Property RIFS

Enclosed are the analytical results for samples collected 06/18/2013.

Quality Control Data are included with the sample results for your review.

If you have any questions concerning this report, call me at (253)502-2130. Please note that remaining samples associated with this report will be discarded 3 months from the date of this report unless we are notified otherwise.

Sincerely,

Stuart Magoon
Assistant Division Manager
Environmental Services Laboratory

cc.

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled
Trip Blank	T306134-01	Water	18-Jun-13 10:00
MW1-PP	T306134-02	Water	18-Jun-13 13:50
MW2-PP	T306134-03	Water	18-Jun-13 13:35
MW13-(51.5)	T306134-04	Water	18-Jun-13 12:40
LAI-MW1-(63)	T306134-05	Water	18-Jun-13 12:20
LAI-MW2-(65)	T306134-06	Water	18-Jun-13 11:55
LAI-MW3-(75)	T306134-07	Water	18-Jun-13 12:08
LAI-MW4-(25)	T306134-08	Water	18-Jun-13 11:37
LAI-MW5-(42)	T306134-09	Water	18-Jun-13 13:08
LAI-MW5-(50)	T306134-10	Water	18-Jun-13 13:10
RNS-MW2-(21.5)	T306134-11	Water	18-Jun-13 13:25
RNS-MW2-(38.5)	T306134-12	Water	18-Jun-13 13:26
RNS-MW6-(42.5)	T306134-13	Water	18-Jun-13 12:54
RNS-MW6-(52.5)	T306134-14	Water	18-Jun-13 12:55
RNS-MW6-(52.5) DUP	T306134-15	Water	18-Jun-13 12:56

CHAIN OF CUSTODY

The samples were received under appropriate Chain of Custody procedures.

SAMPLE RECEIPT, PRESERVATION AND STORAGE

Samples were properly preserved and stored in accordance with the applicable method requirements.

HOLDING TIMES

All analyses were performed within the required holding times.

METHODS

The samples were analyzed by the following method:

EPA Method 8260B for Volatile Organics

INITIAL CALIBRATION

The initial calibration met method 8260 requirements for all compounds except for the RSD for **Bromomethane at 55% (limit 20%). All of the sample results for Bromomethane are qualified as estimated (J or UJ).**

MINIMUM REPORTING LIMITS

All analytes are reported to the Practical Quantitation Limit (PQL) which is below or no greater than the Minimum Project Reporting Limit.

BLANKS

Blanks were analyzed at the required frequencies of the methods. Sample T306062-01 was a Trip Blank. The blanks met the project criteria, **except for the following:**

Lab ID	Analyte	Amount	Associated Samples	Qualifier
T306134-01 (Trip Blank)	**Acetone**	**7.8 ug/L**	**-02**	**UJ**
	Methylene Chloride	**1.4 ug/L**	**-04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, & -15**	**UJ**
	Bromomethane	**0.6 ug/L**	**-02, -03**	**UJ**

The associated samples are qualified as not detected and estimated at their reported values (UJ).

SURROGATE COMPOUNDS

Surrogate compounds were added to each sample to monitor system performance. Surrogate recoveries were within the project limits except for Bromofluorobenzene in the diluted samples -04RE1, -06RE1, -07RE1, -13RE1 -13RE2, -14RE1, -14RE2, -15RE1, and -15RE2. No data warrants qualification for only one low surrogate.

LABORATORY CONTROL SAMPLES

Laboratory Control Samples were analyzed with these samples for all parameters. The recoveries for all associated LCS were within the project limits.

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSIS

Matrix Spike and Matrix Spike Duplicate analysis were performed with these samples. The recoveries were within the project limits except for the following:

Analyte	MS %REC	MSD %REC	%REC Limits	RPD	RPD Limits
Tetrachloroethene	79.2*	87	81-126	40*	20
1,3-Dichlorobenzene	78.9*	82.8	82-133	4.8	20

*out of range

Tetrachloroethene failed the MSD with the original dilution but was diluted more and passed in the MSD2. High RPD alone or combined with one of either the MS or MSD recovery being out of limits does not warrant qualification.

INTERNAL STANDARDS

Internal Standards were added to these samples for quantitation purposes. The Area counts of these standards must not vary more than a factor of two from the mid-point standard of the calibration curve according to the method. The retention times must not vary by more than 30 seconds. No compounds varied by more than 30 seconds retention time. The internal standard criteria were met for these samples.

FIELD DUPLICATES

Samples T306134-14 and T306134-15 were submitted as field duplicates. No compounds were detected in the field duplicate pairs greater than the PQL except the following:

Analyte	Units	T306134-14	T306124-15	RPD
Vinyl Chloride	ug/L	0.5	0.4	22
Methylene Chloride	ug/L	0.8	0.8	0
trans-1,2-Dichloroethene	ug/L	1.1	1.1	0

Analyte	Units	T306134-14	T306124-15	RPD
cis-1,2-Dichloroethene	ug/L	81	72	12
Trichloroethene	ug/L	170	150	12
Tetrachloroethene	ug/L	580	520	11

The Field Duplicates are screened against a RPD of 75%. All comparisons met the screening criteria. No data is qualified.

DATA AVAILABILITY

All data associated with the samples contained in this report are archived at the Environmental Services Laboratory and are available upon request.

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

Trip Blank
T306134-01 (Water)
18-Jun-13 10:00

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	**7.8**	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	**0.6 J**	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,2-Dichloroethene	0.2 U	0.2	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**1.4**	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

Trip Blank
T306134-01 (Water)
18-Jun-13 10:00

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*89.0 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*105 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*101 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

MW1-PP
T306134-02 (Water)
18-Jun-13 13:50

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**16.51**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	**10 UJ**	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	**0.5 UJ**	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,2-Dichloroethene	**0.3**	0.2	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

MW1-PP
T306134-02 (Water)
18-Jun-13 13:50

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
m/p-Xylene	1.0 U	1.0		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*104 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*102 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

MW2-PP
T306134-03 (Water)
18-Jun-13 13:35

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**15.62**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	**0.5 UJ**	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,2-Dichloroethene	**2.7**	0.2	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

MW2-PP
T306134-03 (Water)
18-Jun-13 13:35

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
m/p-Xylene	1.0 U	1.0		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Tetrachloroethene	**0.7**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichloroethene	**0.8**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	**0.3**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*86.4 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*102 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*100 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

MW13-(51.5)
T306134-04 (Water)
18-Jun-13 12:40

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**39.20**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

MW13-(51.5)
T306134-04 (Water)
18-Jun-13 12:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.7 UJ**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	**1.4**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	**0.8**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*101 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*102 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

MW13-(51.5)
T306134-04RE1 (Water)
18-Jun-13 12:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
cis-1,2-Dichloroethene	**110**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Tetrachloroethene	**400**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Trichloroethene	**96**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*26-175*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*73.5 %*	*86-126*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*99.3 %*	*81-130*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*94.8 %*	*82-127*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW1-(63)
T306134-05 (Water)
18-Jun-13 12:20

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**44.30**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,2-Dichloroethene	0.2 U	0.2	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW1-(63)
T306134-05 (Water)
18-Jun-13 12:20

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
m/p-Xylene	1.0 U	1.0		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.6 UJ**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*104 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*102 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW2-(65)
T306134-06 (Water)
18-Jun-13 11:55

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**44.30**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	**0.7**	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW2-(65)
T306134-06 (Water)
18-Jun-13 11:55

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.7 UJ**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	**1.3**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	**0.8**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*103 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*102 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW2-(65)
T306134-06RE1 (Water)
18-Jun-13 11:55

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
cis-1,2-Dichloroethene	**120**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Tetrachloroethene	**280**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Trichloroethene	**87**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*26-175*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*70.4 %*	*86-126*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*101 %*	*81-130*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*95.1 %*	*82-127*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW3-(75)
T306134-07 (Water)
18-Jun-13 12:08

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**50.82**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,2-Dichloroethene	**44**	0.2	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW3-(75)
T306134-07 (Water)
18-Jun-13 12:08

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
m/p-Xylene	1.0 U	1.0		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.7 UJ**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichloroethene	**27**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*89.3 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*105 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*101 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW3-(75)
T306134-07RE1 (Water)
18-Jun-13 12:08

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Tetrachloroethene	**72**	1.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*26-175*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*76.0 %*	*86-126*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*101 %*	*81-130*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*98.4 %*	*82-127*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW4-(25)
T306134-08 (Water)
18-Jun-13 11:37

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**12.33**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	**0.6**	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	**0.5**	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,2-Dichloroethene	**0.3**	0.2	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

Center for Urban Waters - Environmental Services Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed By

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW4-(25)
T306134-08 (Water)
18-Jun-13 11:37

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
m/p-Xylene	1.0 U	1.0		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.7 UJ**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*87.5 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*103 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*101 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW5-(42)
T306134-09 (Water)
18-Jun-13 13:08

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**24.18**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,2-Dichloroethene	0.2 U	0.2	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW5-(42)
T306134-09 (Water)
18-Jun-13 13:08

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
m/p-Xylene	1.0 U	1.0		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.6 UJ**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*106 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*101 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW5-(50)
T306134-10 (Water)
18-Jun-13 13:10

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**24.18**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,2-Dichloroethene	0.2 U	0.2	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

LAI-MW5-(50)
T306134-10 (Water)
18-Jun-13 13:10

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
m/p-Xylene	1.0 U	1.0		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.6 UJ**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*90.2 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*104 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*102 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW2-(21.5)
T306134-11 (Water)
18-Jun-13 13:25

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**16.81**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,2-Dichloroethene	**0.2**	0.2	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW2-(21.5)
T306134-11 (Water)
18-Jun-13 13:25

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
m/p-Xylene	1.0 U	1.0		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.6 UJ**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Tetrachloroethene	**7.8**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichloroethene	**0.4**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*104 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*101 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW2-(38.5)
T306134-12 (Water)
18-Jun-13 13:26

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**16.81**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,2-Dichloroethene	**0.2**	0.2	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW2-(38.5)
T306134-12 (Water)
18-Jun-13 13:26

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
m/p-Xylene	1.0 U	1.0		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.7 UJ**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Tetrachloroethene	**9.6**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichloroethene	**0.4**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*103 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*101 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(42.5)
T306134-13 (Water)
18-Jun-13 12:54

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**39.30**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(42.5)
T306134-13 (Water)
18-Jun-13 12:54

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.7 UJ**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	**1.0**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	**0.5**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*89.8 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*102 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*101 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(42.5)
T306134-13RE1 (Water)
18-Jun-13 12:54

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
cis-1,2-Dichloroethene	**85**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Trichloroethene	**190**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*26-175*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*73.8 %*	*86-126*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*101 %*	*81-130*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*95.4 %*	*82-127*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(42.5)
T306134-13RE2 (Water)
18-Jun-13 12:54

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Tetrachloroethene	**590**	10		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*26-175*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*77.8 %*	*86-126*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*101 %*	*81-130*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*99.4 %*	*82-127*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(52.5)
T306134-14 (Water)
18-Jun-13 12:55

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**39.30**	0.00	Feet		03-Jul-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(52.5)
T306134-14 (Water)
18-Jun-13 12:55

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.8 UJ**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	**1.1**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	**0.5**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*102 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*101 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(52.5)
T306134-14RE1 (Water)
18-Jun-13 12:55

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
cis-1,2-Dichloroethene	**81**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Trichloroethene	**170**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*26-175*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*73.2 %*	*86-126*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*98.6 %*	*81-130*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*94.6 %*	*82-127*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(52.5)
T306134-14RE2 (Water)
18-Jun-13 12:55

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Tetrachloroethene	**580**	10		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*26-175*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*77.8 %*	*86-126*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*100 %*	*81-130*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*100 %*	*82-127*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(52.5) DUP
T306134-15 (Water)
18-Jun-13 12:56

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acetone	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Bromomethane	0.5 UJ	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Methylene Chloride	**0.8 UJ**	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
o-Xylene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Styrene	0.5 U	0.5	ug/L	21-Jun-13	21-Jun-13	EPA 8260C

Center for Urban Waters - Environmental Services Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed By

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(52.5) DUP
T306134-15 (Water)
18-Jun-13 12:56

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Toluene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,2-Dichloroethene	**1.1**	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Vinyl Chloride	**0.4**	0.2		ug/L	21-Jun-13	21-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*26-175*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*88.4 %*	*86-126*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*103 %*	*81-130*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*101 %*	*82-127*		*21-Jun-13*	*21-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(52.5) DUP

T306134-15RE1 (Water)

18-Jun-13 12:56

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
cis-1,2-Dichloroethene	**72**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Trichloroethene	**150**	2.0		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*26-175*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*72.8 %*	*86-126*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*97.6 %*	*81-130*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*93.2 %*	*82-127*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

RNS-MW6-(52.5) DUP
T306134-15RE2 (Water)
18-Jun-13 12:56

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Tetrachloroethene	**520**	10		ug/L	24-Jun-13	24-Jun-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*26-175*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*78.8 %*	*86-126*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*99.6 %*	*81-130*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*
Surrogate: Toluene-d8		*99.2 %*	*82-127*		*24-Jun-13*	*24-Jun-13*	*EPA 8260C*

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1325084 - Volatile Organics No-Prep									
Blank (1325084-BLK1)			Prepared & Analyzed: 21-Jun-13						
1,1,1-Trichloroethane	0.5 U	ug/L							
1,1,2,2-Tetrachloroethane	0.5 U	ug/L							
1,1,2-Trichloroethane	0.5 U	ug/L							
1,1,2-Trichlorotrifluoroethane	0.5 U	ug/L							
1,1-Dichloroethane	0.5 U	ug/L							
1,1-Dichloroethene	0.5 U	ug/L							
1,2-Dibromoethane	0.5 U	ug/L							
1,2-Dichlorobenzene	0.5 U	ug/L							
1,2-Dichloroethane	0.5 U	ug/L							
Surrogate: 1,2-Dichloroethane-d4	*21*	ug/L	*20.0*		*106*	*26-175*			
1,2-Dichloropropane	0.5 U	ug/L							
1,3-Dichlorobenzene	0.5 U	ug/L							
1,4-Dichlorobenzene	0.5 U	ug/L							
2-Butanone	5.0 U	ug/L							
2-Hexanone	5.0 U	ug/L							
Surrogate: 4-Bromofluorobenzene	*18*	ug/L	*20.0*		*88.1*	*86-126*			
4-Methyl-2-pentanone	5.0 U	ug/L							
Acetone	5.0 U	ug/L							
Acrolein	5.0 U	ug/L							
Acrylonitrile	5.0 U	ug/L							
Benzene	0.5 U	ug/L							
Bromodichloromethane	0.5 U	ug/L							
Bromoform	0.5 U	ug/L							
Bromomethane	0.5 UJ	ug/L							
Carbon Disulfide	0.5 U	ug/L							
Carbon Tetrachloride	0.5 U	ug/L							
Chlorobenzene	0.5 U	ug/L							
Chloroethane	0.5 U	ug/L							
Chloroform	0.5 U	ug/L							
Chloromethane	0.5 U	ug/L							
cis-1,2-Dichloroethene	0.2 U	ug/L							
cis-1,3-Dichloropropene	0.5 U	ug/L							

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1325084 - Volatile Organics No-Prep									
Blank (1325084-BLK1)			Prepared & Analyzed: 21-Jun-13						
Dibromochloromethane	0.5 U	ug/L							
Surrogate: Dibromofluoromethane	*20*	ug/L	*20.0*		*102*	*81-130*			
Ethylbenzene	0.5 U	ug/L							
m/p-Xylene	1.0 U	ug/L							
Methyl tert-butyl ether	0.5 U	ug/L							
Methylene Chloride	0.5 U	ug/L							
o-Xylene	0.5 U	ug/L							
Styrene	0.5 U	ug/L							
Tetrachloroethene	0.2 U	ug/L							
Toluene	0.5 U	ug/L							
Surrogate: Toluene-d8	*20*	ug/L	*20.0*		*100*	*82-127*			
trans-1,2-Dichloroethene	0.5 U	ug/L							
trans-1,3-Dichloropropene	0.5 U	ug/L							
Trichloroethene	0.2 U	ug/L							
Trichlorofluoromethane	0.5 U	ug/L							
Vinyl Acetate	0.5 U	ug/L							
Vinyl Chloride	0.2 U	ug/L							
LCS (1325084-BS1)			Prepared & Analyzed: 21-Jun-13						
1,1,1-Trichloroethane	**20**	**ug/L**	**20.0**		**101**	**82-121**			
1,1,2,2-Tetrachloroethane	**18**	**ug/L**	**20.0**		**91.7**	**77-137**			
1,1,2-Trichloroethane	**20**	**ug/L**	**20.0**		**98.0**	**88-125**			
1,1,2-Trichlorotrifluoroethane	**21**	**ug/L**	**20.0**		**107**	**80-120**			
1,1-Dichloroethane	**22**	**ug/L**	**20.0**		**112**	**86-124**			
1,1-Dichloroethene	**21**	**ug/L**	**20.0**		**104**	**87-114**			
1,2-Dibromoethane	**19**	**ug/L**	**20.0**		**94.4**	**80-120**			
1,2-Dichlorobenzene	**17**	**ug/L**	**20.0**		**85.1**	**79-140**			
1,2-Dichloroethane	**21**	**ug/L**	**20.0**		**104**	**85-130**			
Surrogate: 1,2-Dichloroethane-d4	*21*	ug/L	*20.0*		*104*	*26-175*			
1,2-Dichloropropane	**22**	**ug/L**	**20.0**		**111**	**88-131**			
1,3-Dichlorobenzene	**17**	**ug/L**	**20.0**		**83.5**	**82-133**			
1,4-Dichlorobenzene	**17**	**ug/L**	**20.0**		**82.6**	**62-138**			
2-Butanone	**210**	**ug/L**	**200**		**107**	**73-130**			

PW Science and Engineering	Project: Sauro Property RIFS	
326 East D Street	Project Number: CIP-00020-01-03	Reported:
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1325084 - Volatile Organics No-Prep									
LCS (1325084-BS1)			Prepared & Analyzed: 21-Jun-13						
2-Hexanone	**220**	**ug/L**	**200**		**108**	**70-138**			
Surrogate: 4-Bromofluorobenzene	*18*	ug/L	*20.0*		*92.0*	*86-126*			
4-Methyl-2-pentanone	**230**	**ug/L**	**200**		**113**	**66-134**			
Acetone	**220**	**ug/L**	**200**		**111**	**79-126**			
Acrolein	**230**	**ug/L**	**200**		**116**	**66-141**			
Acrylonitrile	**240**	**ug/L**	**200**		**118**	**86-124**			
Benzene	**21**	**ug/L**	**20.0**		**106**	**81-124**			
Bromodichloromethane	**20**	**ug/L**	**20.0**		**101**	**84-130**			
Bromoform	**18**	**ug/L**	**20.0**		**88.8**	**76-134**			
Bromomethane	**20**	**ug/L**	**20.0**		**100**	**64-147**			
Carbon Disulfide	**21**	**ug/L**	**20.0**		**104**	**71-139**			
Carbon Tetrachloride	**20**	**ug/L**	**20.0**		**99.5**	**80-120**			
Chlorobenzene	**19**	**ug/L**	**20.0**		**94.2**	**87-124**			
Chloroethane	**22**	**ug/L**	**20.0**		**110**	**61-140**			
Chloroform	**22**	**ug/L**	**20.0**		**109**	**88-121**			
Chloromethane	**22**	**ug/L**	**20.0**		**111**	**69-126**			
cis-1,2-Dichloroethene	**21**	**ug/L**	**20.0**		**103**	**85-121**			
cis-1,3-Dichloropropene	**19**	**ug/L**	**20.0**		**97.0**	**80-129**			
Dibromochloromethane	**19**	**ug/L**	**20.0**		**92.8**	**81-130**			
Surrogate: Dibromofluoromethane	*21*	ug/L	*20.0*		*104*	*81-130*			
Ethylbenzene	**19**	**ug/L**	**20.0**		**96.2**	**73-130**			
m/p-Xylene	**39**	**ug/L**	**40.0**		**96.5**	**76-127**			
Methyl tert-butyl ether	**21**	**ug/L**	**20.0**		**106**	**50-150**			
Methylene Chloride	**19**	**ug/L**	**20.0**		**95.0**	**70-130**			
o-Xylene	**19**	**ug/L**	**20.0**		**94.4**	**77-130**			
Styrene	**17**	**ug/L**	**20.0**		**84.6**	**78-129**			
Tetrachloroethene	**18**	**ug/L**	**20.0**		**89.7**	**81-126**			
Toluene	**20**	**ug/L**	**20.0**		**101**	**87-127**			
Surrogate: Toluene-d8	*20*	ug/L	*20.0*		*100*	*82-127*			
trans-1,2-Dichloroethene	**21**	**ug/L**	**20.0**		**103**	**85-120**			
trans-1,3-Dichloropropene	**20**	**ug/L**	**20.0**		**97.6**	**82-130**			
Trichloroethene	**18**	**ug/L**	**20.0**		**91.8**	**84-123**			
Trichlorofluoromethane	**21**	**ug/L**	**20.0**		**103**	**80-120**			

PW Science and Engineering	Project: Sauro Property RIFS	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1325084 - Volatile Organics No-Prep									
LCS (1325084-BS1)			Prepared & Analyzed: 21-Jun-13						
Vinyl Acetate	21	ug/L	20.0		104	63-133			
Vinyl Chloride	22	ug/L	20.0		111	69-126			
Matrix Spike (1325084-MS1)		**Source: T306134-04RE1**	Prepared & Analyzed: 24-Jun-13						
1,1,1-Trichloroethane	20	ug/L	20.0	ND	100	82-121			
1,1,2,2-Tetrachloroethane	19	ug/L	20.0	ND	96.0	77-137			
1,1,2-Trichloroethane	19	ug/L	20.0	ND	95.3	88-125			
1,1,2-Trichlorotrifluoroethane	21	ug/L	20.0	ND	106	80-120			
1,1-Dichloroethane	23	ug/L	20.0	ND	113	86-124			
1,1-Dichloroethene	21	ug/L	20.0	ND	106	87-114			
1,2-Dibromoethane	19	ug/L	20.0	ND	92.9	80-120			
1,2-Dichlorobenzene	17	ug/L	20.0	0.06	83.0	79-140			
1,2-Dichloroethane	20	ug/L	20.0	ND	101	85-130			
Surrogate: 1,2-Dichloroethane-d4	*21*	ug/L	*20.0*		*105*	*26-175*			
1,2-Dichloropropane	22	ug/L	20.0	ND	109	88-131			
1,3-Dichlorobenzene	16	ug/L	20.0	0.07	78.9	82-133			
1,4-Dichlorobenzene	16	ug/L	20.0	0.06	77.4	62-138			
2-Butanone	210	ug/L	200	ND	106	73-130			
2-Hexanone	210	ug/L	200	ND	104	70-138			
Surrogate: 4-Bromofluorobenzene	*18*	ug/L	*20.0*		*91.8*	*86-126*			
4-Methyl-2-pentanone	220	ug/L	200	0.02	110	66-134			
Acetone	200	ug/L	200	ND	102	79-126			
Acrolein	240	ug/L	200	ND	120	66-141			
Acrylonitrile	240	ug/L	200	ND	121	86-124			
Benzene	21	ug/L	20.0	ND	106	81-124			
Bromodichloromethane	20	ug/L	20.0	ND	101	84-130			
Bromoform	17	ug/L	20.0	ND	85.6	76-134			
Bromomethane	15	ug/L	20.0	0.07	74.2	64-147			
Carbon Disulfide	21	ug/L	20.0	0.2	103	71-139			
Carbon Tetrachloride	20	ug/L	20.0	ND	99.6	80-120			
Chlorobenzene	18	ug/L	20.0	ND	92.0	87-124			
Chloroethane	22	ug/L	20.0	ND	111	61-140			
Chloroform	22	ug/L	20.0	ND	110	88-121			

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1325084 - Volatile Organics No-Prep									
Matrix Spike (1325084-MS1)	**Source: T306134-04RE1** Prepared & Analyzed: 24-Jun-13								
Chloromethane	**22**	**ug/L**	**20.0**	**0.08**	**109**	**69-126**			
cis-1,2-Dichloroethene	**32**	**ug/L**	**20.0**	**11**	**108**	**85-121**			
cis-1,3-Dichloropropene	**19**	**ug/L**	**20.0**	**ND**	**95.6**	**80-129**			
Dibromochloromethane	**19**	**ug/L**	**20.0**	**ND**	**93.0**	**81-130**			
Surrogate: Dibromofluoromethane	*21*	ug/L	*20.0*		*103*	*81-130*			
Ethylbenzene	**19**	**ug/L**	**20.0**	**0.02**	**94.6**	**73-130**			
m/p-Xylene	**38**	**ug/L**	**40.0**	**0.08**	**93.6**	**76-127**			
Methyl tert-butyl ether	**21**	**ug/L**	**20.0**	**ND**	**107**	**50-150**			
Methylene Chloride	**19**	**ug/L**	**20.0**	**0.4**	**93.6**	**70-130**			
o-Xylene	**19**	**ug/L**	**20.0**	**ND**	**94.6**	**77-130**			
Styrene	**17**	**ug/L**	**20.0**	**ND**	**84.6**	**78-129**			
Tetrachloroethene	**56**	**ug/L**	**20.0**	**40**	**79.2**	**81-126**			
Toluene	**20**	**ug/L**	**20.0**	**ND**	**100**	**87-127**			
Surrogate: Toluene-d8	*20*	ug/L	*20.0*		*101*	*82-127*			
trans-1,2-Dichloroethene	**20**	**ug/L**	**20.0**	**ND**	**102**	**85-120**			
trans-1,3-Dichloropropene	**19**	**ug/L**	**20.0**	**ND**	**95.0**	**82-130**			
Trichloroethene	**28**	**ug/L**	**20.0**	**9.6**	**91.6**	**84-123**			
Trichlorofluoromethane	**21**	**ug/L**	**20.0**	**ND**	**103**	**80-120**			
Vinyl Acetate	**21**	**ug/L**	**20.0**	**ND**	**107**	**63-133**			
Vinyl Chloride	**22**	**ug/L**	**20.0**	**0.1**	**111**	**68-127**			
Matrix Spike Dup (1325084-MSD1)	**Source: T306134-04RE1** Prepared & Analyzed: 24-Jun-13								
1,1,1-Trichloroethane	**21**	**ug/L**	**20.0**	**ND**	**107**	**82-121**	**6.84**	**20**	
1,1,2,2-Tetrachloroethane	**21**	**ug/L**	**20.0**	**ND**	**105**	**77-137**	**9.24**	**20**	
1,1,2-Trichloroethane	**21**	**ug/L**	**20.0**	**ND**	**105**	**88-125**	**9.50**	**20**	
1,1,2-Trichlorotrifluoroethane	**22**	**ug/L**	**20.0**	**ND**	**112**	**80-120**	**4.95**	**20**	
1,1-Dichloroethane	**24**	**ug/L**	**20.0**	**ND**	**122**	**86-124**	**7.74**	**20**	
1,1-Dichloroethene	**22**	**ug/L**	**20.0**	**ND**	**112**	**87-114**	**4.96**	**20**	
1,2-Dibromoethane	**20**	**ug/L**	**20.0**	**ND**	**102**	**80-120**	**9.34**	**20**	
1,2-Dichlorobenzene	**18**	**ug/L**	**20.0**	**0.06**	**87.6**	**79-140**	**5.26**	**20**	
1,2-Dichloroethane	**22**	**ug/L**	**20.0**	**ND**	**110**	**85-130**	**8.30**	**20**	
Surrogate: 1,2-Dichloroethane-d4	*20*	ug/L	*20.0*		*102*	*26-175*			
1,2-Dichloropropane	**24**	**ug/L**	**20.0**	**ND**	**119**	**88-131**	**9.11**	**20**	

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

VOA - Quality Control

Environmental Services Laboratory

Sample ID Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1325084 - Volatile Organics No-Prep									
Matrix Spike Dup (1325084-MSD1)	**Source: T306134-04RE1**	Prepared & Analyzed: 24-Jun-13							
1,3-Dichlorobenzene	**17**	**ug/L**	**20.0**	**0.07**	**82.8**	**82-133**	**4.80**	**20**	
1,4-Dichlorobenzene	**16**	**ug/L**	**20.0**	**0.06**	**82.0**	**62-138**	**5.69**	**20**	
2-Butanone	**210**	**ug/L**	**200**	**ND**	**106**	**73-130**	**0.505**	**20**	
2-Hexanone	**210**	**ug/L**	**200**	**ND**	**106**	**70-138**	**2.17**	**20**	
Surrogate: 4-Bromofluorobenzene	*18*	ug/L	*20.0*		*89.0*	*86-126*			
4-Methyl-2-pentanone	**220**	**ug/L**	**200**	**0.02**	**112**	**66-134**	**1.97**	**20**	
Acetone	**210**	**ug/L**	**200**	**ND**	**104**	**79-126**	**1.44**	**20**	
Acrolein	**250**	**ug/L**	**200**	**ND**	**123**	**66-141**	**2.93**	**20**	
Acrylonitrile	**250**	**ug/L**	**200**	**ND**	**123**	**86-124**	**1.98**	**20**	
Benzene	**23**	**ug/L**	**20.0**	**ND**	**113**	**81-124**	**5.97**	**20**	
Bromodichloromethane	**22**	**ug/L**	**20.0**	**ND**	**109**	**84-130**	**7.32**	**20**	
Bromoform	**19**	**ug/L**	**20.0**	**ND**	**94.6**	**76-134**	**9.93**	**20**	
Bromomethane	**14**	**ug/L**	**20.0**	**0.07**	**68.5**	**64-147**	**7.88**	**20**	
Carbon Disulfide	**22**	**ug/L**	**20.0**	**0.2**	**109**	**71-139**	**5.90**	**20**	
Carbon Tetrachloride	**21**	**ug/L**	**20.0**	**ND**	**105**	**80-120**	**5.47**	**20**	
Chlorobenzene	**20**	**ug/L**	**20.0**	**ND**	**99.2**	**87-124**	**7.53**	**20**	
Chloroethane	**22**	**ug/L**	**20.0**	**ND**	**110**	**61-140**	**1.22**	**20**	
Chloroform	**23**	**ug/L**	**20.0**	**ND**	**116**	**88-121**	**5.29**	**20**	
Chloromethane	**22**	**ug/L**	**20.0**	**0.08**	**108**	**69-126**	**0.0918**	**20**	
cis-1,2-Dichloroethene	**33**	**ug/L**	**20.0**	**11**	**110**	**85-121**	**0.895**	**20**	
cis-1,3-Dichloropropene	**20**	**ug/L**	**20.0**	**ND**	**102**	**80-129**	**6.77**	**20**	
Dibromochloromethane	**20**	**ug/L**	**20.0**	**ND**	**102**	**81-130**	**8.79**	**20**	
Surrogate: Dibromofluoromethane	*20*	ug/L	*20.0*		*102*	*81-130*			
Ethylbenzene	**20**	**ug/L**	**20.0**	**0.02**	**101**	**73-130**	**6.58**	**20**	
m/p-Xylene	**40**	**ug/L**	**40.0**	**0.08**	**100**	**76-127**	**6.70**	**20**	
Methyl tert-butyl ether	**23**	**ug/L**	**20.0**	**ND**	**114**	**50-150**	**6.73**	**20**	
Methylene Chloride	**20**	**ug/L**	**20.0**	**0.4**	**99.7**	**70-130**	**6.18**	**20**	
o-Xylene	**20**	**ug/L**	**20.0**	**ND**	**99.6**	**77-130**	**5.20**	**20**	
Styrene	**18**	**ug/L**	**20.0**	**ND**	**89.0**	**78-129**	**5.07**	**20**	
Toluene	**22**	**ug/L**	**20.0**	**ND**	**108**	**87-127**	**7.39**	**20**	
Surrogate: Toluene-d8	*20*	ug/L	*20.0*		*101*	*82-127*			
trans-1,2-Dichloroethene	**22**	**ug/L**	**20.0**	**ND**	**108**	**85-120**	**5.72**	**20**	
trans-1,3-Dichloropropene	**20**	**ug/L**	**20.0**	**ND**	**102**	**82-130**	**7.15**	**20**	

Center for Urban Waters - Environmental Services Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed By

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1325084 - Volatile Organics No-Prep									
Matrix Spike Dup (1325084-MSD1)	**Source: T306134-04RE1** Prepared & Analyzed: 24-Jun-13								
Trichloroethene	**28**	**ug/L**	**20.0**	**9.6**	**94.0**	**84-123**	**1.67**	**20**	
Trichlorofluoromethane	**21**	**ug/L**	**20.0**	**ND**	**103**	**80-120**	**0.388**	**20**	
Vinyl Acetate	**23**	**ug/L**	**20.0**	**ND**	**115**	**63-133**	**7.46**	**20**	
Vinyl Chloride	**22**	**ug/L**	**20.0**	**0.1**	**112**	**68-127**	**0.851**	**20**	
Matrix Spike Dup (1325084-MSD2)	**Source: T306134-04RE1** Prepared & Analyzed: 24-Jun-13								
Surrogate: 1,2-Dichloroethane-d4	*20*	ug/L	*20.0*		*102*	*26-175*			
Surrogate: 4-Bromofluorobenzene	*18*	ug/L	*20.0*		*89.2*	*86-126*			
Surrogate: Dibromofluoromethane	*20*	ug/L	*20.0*		*101*	*81-130*			
Tetrachloroethene	**38**	**ug/L**	**20.0**	**20**	**87.0**	**81-126**	**39.8**	**20**	
Surrogate: Toluene-d8	*20*	ug/L	*20.0*		*101*	*82-127*			

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	12-Jul-13 16:09

Notes and Definitions

UJ	Analyte not detected at or above the associated estimated value
J	The result is an estimated concentration.
U	Analyte Not Detected at or above the associated value
UJ	Analyte Not Detected at or above the associated estimated value
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

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

COC Number
Lab Work Order Number T306134

Client Name: PW Science and Engineering	Project Name: Sauro Property RIFS
Client Contact: Calvin Taylor	Project Number: CIP-00020-01-03
Address: 326 East D Street	Project Description: Sauro Property Monitoring Wells
City: Tacoma	PO Number: 61000055543
State/Zip: WA, 98421	Sampler Signatures: Bill Essmeier, Ryan Coore
Phone: (253) 593-7711 / Fax: (253) 502-2295	
Samplers: Bill Essmeier, ~~Mark Bozlee~~ Ryan Coore	

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days) | Expedited (days) | Due Date

Sample Name or Field ID #	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Field Measurement	EPA 8260C								Sample #	Sample Comments
Trip Blank	6/14/2013	1000	G	W	3		3								-01	
MW1-PP	6/14/2013	1350	G	W	3		3								-02	
MW2-PP	6/14/2013	1335	G	W	3		3								-03	
MW13-(51.5)	6/14/2013	1240	G	W	6		6								-04	QC
LAI-MW1-(63)	6/14/2013	1220	G	W	3		3								-05	
LAI-MW2-(65)	6/14/2013	1155	G	W	3		3								-06	
LAI-MW3-(75)	6/14/2013	1208	G	W	3		3								-07	
LAI-MW4-(25)	6/14/2013	11:37	G	W	3		3								-08	
LAI-MW5-(42)	6/14/2013	1308	G	W	3		3								-09	
LAI-MW5-(50)	6/14/2013	1310	G	W	3		3								-10	
RNS-MW2-(21.5)	6/14/2013	1325	G	W	3		3								-11	
RNS-MW2-(38.5)	6/14/2013	1326	G	W	3		3								-12	

Relinquished By: 6/18/13	Received By: Bill Essmeier	Date/Time: 6-18-2013 1500	Comments
Relinquished By	Received By	Date/Time	
Relinquished By	Received By	Date/Time	
Cooler Numbers and Temperatures			

Matrix Codes: W=Water

Preserv. Codes:

Login Reviewed By: _____

Login Reviewed Date: 6/19/13

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

COC Number

Lab Work Order Number T306134

Client Name: PW Science and Engineering	Project Name: Sauro Property RIFS
Client Contact: Calvin Taylor	Project Number: CIP-00020-01-03
Address: 326 East D Street	Project Description: Sauro Property Monitoring Wells
City: Tacoma	PO Number: 61000055543
State/Zip: WA, 98421	Sampler Signatures: Bill Essmeier, Ryan Gore
Phone: (253) 593-7711 / Fax: (253) 502-2295	
Samplers: Bill Essmeier, ~~Mark Bozlee~~ Ryan Gore	

Requested Analyses: Field Measurement; EPA 8260C; Sample #

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days); Expedited (days); Due Date

Sample Name or Field ID #	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	EPA 8260C	Sample #	Sample Comments
	6/18/13 BE							
RNS-MW6-(42.5)	6/14/2013	1254	G	W	3	3	-13	
RNS-MW6-(52.5)	6/14/2013	1255	G	W	3	3	-14	
~~LAI-MW3~~ DUP	6/14/2013		G	W	3	3	-15	
RNS-MW6-52.5 DUP	6-18-13	1256						

Relinquished By	Received By: Bill Essmeier	Date/Time: 6-18-2013 1500
Relinquished By	Received By	Date/Time
Relinquished By	Received By	Date/Time
Cooler Numbers and Temperatures		

Comments

Matrix Codes: W=Water

Preserv. Codes:

Login Reviewed By: _____

Login Reviewed Date: 6/19/13

Sauro Property Field data

T306 BE 134

Well	Level	Date	Time	Notes
Trip Blank	—	6-18-13	1000	Bill Esmeier Ryan Gore-Assistant RG
MW1-PP -02	16.51	6-18-13	13:50	3vials
	16.51	6-14-13	15:40	Pre-sample purge 2130mL
MW2-PP -03	15.62	6-18-13	1335	3vials
	15.60	6-14-13	15:34	Pre-sample purge 860mL
MW13-(51.5) QC -04	39.20	6-18-13	1240	6vials
LAI-MW1-(63) -05	44.30	6-18-13	12:20	3vials
LAI-MW2-(65) -06	44.30	6-18-13	11:55	3vials
LAI-MW3-(75) -07	50.82	6-18-13	12:08	3vials
LAI-MW4-(25) -08	12.33	6-18-13	11:37	3vials
LAI-MW5-(42) -09	24.18	6-18-13	1308	3vials
LAI-MW5-(50) -10	24.18	6-18-13	1310	3vials
RNS-MW2-(21.5) -11	16.81	6-18-13	13.25	3vials
RNS-MW2-(38.5) -12	16.81	6-18-13	13.26	3vials
RNS-MW6-(42.5) -13	39.30	6-18-13	12:54	3vials
RNS-MW6-(52.5) -14	39.30	6-18-13	12:55	3vials
RNS-MW6-DUP(52.5)	39.30	6-18-13	12:56	DUP 3vials
MW13-(51.5)				QC

September 2013 Volatile Organic Compound Data
Fourth Quarter Sampling
Lab Report T309065 with Addendum

City of Tacoma
Environmental Services Laboratory

23 September 2013

Calvin Taylor
PW Science and Engineering
326 East D Street
Tacoma, WA 98421

Subject: Sauro Property RIFS

Enclosed are the analytical results for samples collected between 09/09/2013 and 09/12/2013.

Quality Control Data are included with the sample results for your review.

If you have any questions concerning this report, call me at (253)502-2130. Please note that remaining samples associated with this report will be discarded 3 months from the date of this report unless we are notified otherwise.

Sincerely,

Stuart Magoon
Assistant Division Manager
Environmental Services Laboratory

cc.

CHAIN OF CUSTODY

The samples were received under appropriate Chain of Custody procedures.

SAMPLE RECEIPT, PRESERVATION AND STORAGE

Samples were properly preserved and stored in accordance with the applicable method requirements.

HOLDING TIMES

All analyses were performed within the required holding times.

METHODS

The samples were analyzed by the following methods:

EPA Method 8260C

MINIMUM REPORTING LIMITS

All analytes are reported to the Practical Quantitation Limit (PQL) which is below or no greater than the Minimum Project Reporting Limit.

BLANKS

Blanks were analyzed at the required frequencies of the methods. There was a minimum of one Method Blank for each analytical method. Blank values were less than the PQL, sample concentrations were greater than 10 times the blank values, or the analytes were not detected in the sample.

A Trip Blank was carried in the field each day sampling was completed. The Trip Blank contained Acetone at 6.6 ug/L. Samples, except for MW1-PP, are qualified UJ as not detected at the associated estimated values based on the level detected in the Trip Blank. MW1-PP is not qualified based on the Trip Blank. It is suspected the Acetone is a contaminant in the VOA vials. Acetone is not a primary analyte of concern for this project.

SURROGATE COMPOUNDS

Surrogate compounds were added to each sample to monitor system performance. Surrogate recoveries were within the laboratory's control limits.

LABORATORY CONTROL SAMPLES

Laboratory Control Samples were analyzed with these samples for all parameters. The recoveries were within the laboratory limits, except for 2-Butanone, 2-Hexanone, 4-Methyl-2-pentanone, Acetone and cis-1,2-Dichloroethene. The recoveries are reported in the QC section of the following data pages. Samples are not qualified for 2-Butanone, 2-Hexanone, and 4-Methyl-2-pentanone because the analytes were not detected in any of the samples and the LCS recoveries were greater

than the upper limits. Acetone values for all samples and cis-1,2-Dichloroethene in MW13-(51.5), LAI-MW2-(65), RNS-MW6-(42.5) and RNS-MW6-(52.5) are qualified as estimated (UJ and J).

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSIS

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analysis was performed with these samples. The recoveries were within the laboratory limits, except for Trichlorotrifluoromethane in the MS for LAI-MW5-(42). The MSD recoveriew was within limits. The recoveries are reported in the QC section of the following data pages. No data is qualified.

INTERNAL STANDARDS

Internal Standards were added to these samples for quantitation purposes. The Area counts of these standards must not vary more than a factor of two from the mid-point standard of the calibration curve according to the method. The retention times must not vary by more than 30 seconds. No compounds varied by more than 30 seconds retention time. The internal standard criteria were met for these samples.

DATA AVAILABILITY

All data associated with the samples referenced in this report are archived at the Environmental Services Laboratory and are available upon request.

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled
Trip Blank	T309065-01	Water	09-Sep-13 10:00
MW1-PP	T309065-02	Water	09-Sep-13 11:30
MW2-PP	T309065-03	Water	09-Sep-13 11:40
MW13-(51.5)	T309065-04	Water	09-Sep-13 12:20
LAI-MW1-(63)	T309065-05	Water	09-Sep-13 12:10
LAI-MW2-(65)	T309065-06	Water	09-Sep-13 11:50
LAI-MW3-(75)	T309065-07	Water	09-Sep-13 12:00
LAI-MW4-(25)	T309065-08	Water	09-Sep-13 12:32
LAI-MW5-(42)	T309065-09	Water	09-Sep-13 10:40
LAI-MW5-(50)	T309065-10	Water	09-Sep-13 10:50
RNS-MW2-(21.5)	T309065-11	Water	09-Sep-13 11:00
RNS-MW2-(38.5)	T309065-12	Water	09-Sep-13 11:05
RNS-MW6-(42.5)	T309065-13	Water	09-Sep-13 11:12
RNS-MW6-(52.5)	T309065-14	Water	09-Sep-13 11:15
LAI-MW5-(50) DUP	T309065-15	Water	09-Sep-13 10:50
MW-JS	T309065-16	Water	12-Sep-13 14:40

Note: well MW-JS was misnamed in this report. The correct well name is MW-JS2, as corrected in the addendum following this report.

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

Trip Blank
T309065-01 (Water)
09-Sep-13 10:00

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acetone	**6.6 J**	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	0.2 U	0.2	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Styrene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

Trip Blank
T309065-01 (Water)
09-Sep-13 10:00

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Tetrachloroethene	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*26-175*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*99.2 %*	*86-126*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*105 %*	*81-130*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*97.2 %*	*82-127*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 14:52

MW1-PP
T309065-02 (Water)
09-Sep-13 11:30

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**17.57**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acetone	**34 J**	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	**0.5**	0.2	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

MW1-PP
T309065-02 (Water)
09-Sep-13 11:30

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*26-175*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*94.6 %*	*86-126*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*103 %*	*81-130*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*95.8 %*	*82-127*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

MW2-PP
T309065-03 (Water)
09-Sep-13 11:40

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**15.94**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acetone	**7.4 UJ**	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	**1.4**	0.2	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

MW2-PP
T309065-03 (Water)
09-Sep-13 11:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Tetrachloroethene	**0.7**	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichloroethene	**0.6**	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Chloride	**0.2**	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*26-175*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*99.1 %*	*86-126*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*107 %*	*81-130*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*97.6 %*	*82-127*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

MW13-(51.5)
T309065-04 (Water)
09-Sep-13 12:20

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**39.60**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acetone	**5.8 UJ**	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

MW13-(51.5)
T309065-04 (Water)
09-Sep-13 12:20

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methylene Chloride	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	**1.4**	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Chloride	**0.8**	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*89.7 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*105 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*106 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

MW13-(51.5)
T309065-04RE1 (Water)
09-Sep-13 12:20

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
cis-1,2-Dichloroethene	**120 J**	2.0		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Tetrachloroethene	**430**	2.0		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichloroethene	**110**	2.0		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*67.4 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*108 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*94.2 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW1-(63)
T309065-05 (Water)
09-Sep-13 12:10

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**45.10**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acetone	**5.1 UJ**	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	0.2 U	0.2	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW1-(63)
T309065-05 (Water)
09-Sep-13 12:10

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*97.8 %*	*26-175*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*86-126*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*104 %*	*81-130*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*95.4 %*	*82-127*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW2-(65)
T309065-06 (Water)
09-Sep-13 11:50

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**44.60**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethene	**0.8**	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acetone	5.0 UJ	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW2-(65)
T309065-06 (Water)
09-Sep-13 11:50

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methylene Chloride	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	**1.5**	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Chloride	**0.8**	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*88.9 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*100 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*108 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW2-(65)
T309065-06RE1 (Water)
09-Sep-13 11:50

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
cis-1,2-Dichloroethene	**160 J**	2.0		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Tetrachloroethene	**360**	2.0		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichloroethene	**120**	2.0		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*73.0 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*110 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*100 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW3-(75)
T309065-07 (Water)
09-Sep-13 12:00

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**51.07**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acetone	**9.1 UJ**	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	**54**	0.2	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW3-(75)
T309065-07 (Water)
09-Sep-13 12:00

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichloroethene	**34**	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*26-175*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*94.7 %*	*86-126*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*104 %*	*81-130*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*97.2 %*	*82-127*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW3-(75)
T309065-07RE1 (Water)
09-Sep-13 12:00

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Tetrachloroethene	**78**	1.0		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*78.6 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*104 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*104 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW4-(25)
T309065-08 (Water)
09-Sep-13 12:32

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**11.55**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acetone	**11 UJ**	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Benzene	**0.8**	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	**0.6**	0.2	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW4-(25)
T309065-08 (Water)
09-Sep-13 12:32

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*26-175*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*97.0 %*	*86-126*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*104 %*	*81-130*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*96.4 %*	*82-127*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW5-(42)
T309065-09 (Water)
09-Sep-13 10:40

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**24.36**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acetone	**7.0 UJ**	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	0.2 U	0.2	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW5-(42)
T309065-09 (Water)
09-Sep-13 10:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*26-175*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*86-126*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*108 %*	*81-130*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*97.4 %*	*82-127*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW5-(50)
T309065-10 (Water)
09-Sep-13 10:50

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**24.36**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acetone	**6.4 UJ**	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	0.2 U	0.2	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Lori A. Zboralski
Reviewed By

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW5-(50)
T309065-10 (Water)
09-Sep-13 10:50

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Tetrachloroethene	**0.3**	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*26-175*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*94.6 %*	*86-126*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*109 %*	*81-130*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*97.6 %*	*82-127*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW2-(21.5)
T309065-11 (Water)
09-Sep-13 11:00

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**17.24**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acetone	**6.5 UJ**	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	**0.3**	0.2	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW2-(21.5)
T309065-11 (Water)
09-Sep-13 11:00

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Tetrachloroethene	**22**	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichloroethene	**0.8**	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*	*26-175*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*95.4 %*	*86-126*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*108 %*	*81-130*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*96.2 %*	*82-127*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW2-(38.5)
T309065-12 (Water)
09-Sep-13 11:05

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**17.24**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acetone	**9.2 UJ**	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloroform	**0.5**	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	**0.2**	0.2	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	13-Sep-13	13-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	13-Sep-13	13-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW2-(38.5)
T309065-12 (Water)
09-Sep-13 11:05

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Tetrachloroethene	**23**	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichloroethene	**0.7**	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	13-Sep-13	13-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*99.0 %*	*26-175*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*86-126*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*104 %*	*81-130*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*98.4 %*	*82-127*		*13-Sep-13*	*13-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW6-(42.5)
T309065-13 (Water)
09-Sep-13 11:12

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**36.55**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethene	**0.6**	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acetone	**7.2 UJ**	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW6-(42.5)
T309065-13 (Water)
09-Sep-13 11:12

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methylene Chloride	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	**0.7**	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*113 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*104 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW6-(42.5)
T309065-13RE1 (Water)
09-Sep-13 11:12

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
cis-1,2-Dichloroethene	**130 J**	2.0		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichloroethene	**260**	2.0		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*71.0 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*105 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*97.3 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW6-(42.5)
T309065-13RE2 (Water)
09-Sep-13 11:12

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Tetrachloroethene	**1100**	10		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*77.3 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*102 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*104 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW6-(52.5)
T309065-14 (Water)
09-Sep-13 11:15

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**36.55**	0.00	Feet	09-Sep-13	09-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichloroethane	**5.5**	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acetone	**7.3 UJ**	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW6-(52.5)
T309065-14 (Water)
09-Sep-13 11:15

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methylene Chloride	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	**1.4**	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Chloride	**0.3**	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*107 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*103 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW6-(52.5)
T309065-14RE1 (Water)
09-Sep-13 11:15

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
cis-1,2-Dichloroethene	**140 J**	2.0		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichloroethene	**130**	2.0		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*72.8 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*110 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*97.2 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

RNS-MW6-(52.5)
T309065-14RE2 (Water)
09-Sep-13 11:15

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Tetrachloroethene	**630**	10		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*75.6 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*104 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*106 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW5-(50) DUP
T309065-15 (Water)
09-Sep-13 10:50

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acetone	**6.0 UJ**	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	0.2 U	0.2	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Methyl tert-butyl ether	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Styrene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

LAI-MW5-(50) DUP

T309065-15 (Water)

09-Sep-13 10:50

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Tetrachloroethene	**0.6**	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*86.0 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*115 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*104 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

MW-JS
T309065-16 (Water)
12-Sep-13 14:40

Note: The correct well name is MW-JS2, as corrected in the addendum following this report.

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**6.90**	0.00	Feet	12-Sep-13	12-Sep-13	Field Measurement
VOA						
1,1,1-Trichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2,2-Tetrachloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1,2-Trichlorotrifluoroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,1-Dichloroethene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dibromoethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,2-Dichloropropane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,3-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
1,4-Dichlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Butanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
2-Hexanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
4-Methyl-2-pentanone	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acetone	**5.0 UJ**	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrolein	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Acrylonitrile	5.0 U	5.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Benzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromodichloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Bromoform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Disulfide	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Carbon Tetrachloride	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chlorobenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloroform	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Chloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
cis-1,2-Dichloroethene	0.2 U	0.2	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
cis-1,3-Dichloropropene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Dibromochloromethane	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Ethylbenzene	0.5 U	0.5	ug/L	17-Sep-13	17-Sep-13	EPA 8260C
m/p-Xylene	1.0 U	1.0	ug/L	17-Sep-13	17-Sep-13	EPA 8260C

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

MW-JS
T309065-16 (Water)
12-Sep-13 14:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*88.6 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*108 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*110 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1337085 - Volatile Organics No-Prep									
Blank (1337085-BLK1)			Prepared & Analyzed: 13-Sep-13						
1,1,1-Trichloroethane	0.5 U	ug/L							
1,1,2,2-Tetrachloroethane	0.5 U	ug/L							
1,1,2-Trichloroethane	0.5 U	ug/L							
1,1,2-Trichlorotrifluoroethane	0.5 U	ug/L							
1,1-Dichloroethane	0.5 U	ug/L							
1,1-Dichloroethene	0.5 U	ug/L							
1,2-Dibromoethane	0.5 U	ug/L							
1,2-Dichlorobenzene	0.5 U	ug/L							
1,2-Dichloroethane	0.5 U	ug/L							
Surrogate: 1,2-Dichloroethane-d4	*20*	ug/L	*20.0*		*97.6*	*26-175*			
1,2-Dichloropropane	0.5 U	ug/L							
1,3-Dichlorobenzene	0.5 U	ug/L							
1,4-Dichlorobenzene	0.5 U	ug/L							
2-Butanone	5.0 U	ug/L							
2-Hexanone	5.0 U	ug/L							
Surrogate: 4-Bromofluorobenzene	*19*	ug/L	*20.0*		*96.3*	*86-126*			
4-Methyl-2-pentanone	5.0 U	ug/L							
Acetone	5.0 U	ug/L							
Acrolein	5.0 U	ug/L							
Acrylonitrile	5.0 U	ug/L							
Benzene	0.5 U	ug/L							
Bromodichloromethane	0.5 U	ug/L							
Bromoform	0.5 U	ug/L							
Carbon Disulfide	0.5 U	ug/L							
Carbon Tetrachloride	0.5 U	ug/L							
Chlorobenzene	0.5 U	ug/L							
Chloroethane	0.5 U	ug/L							
Chloroform	0.5 U	ug/L							
Chloromethane	0.5 U	ug/L							
cis-1,2-Dichloroethene	0.2 U	ug/L							
cis-1,3-Dichloropropene	0.5 U	ug/L							
Dibromochloromethane	0.5 U	ug/L							

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1337085 - Volatile Organics No-Prep									
Blank (1337085-BLK1)			Prepared & Analyzed: 13-Sep-13						
Surrogate: Dibromofluoromethane	*20*	ug/L	*20.0*		*101*	*81-130*			
Ethylbenzene	0.5 U	ug/L							
m/p-Xylene	1.0 U	ug/L							
Methyl tert-butyl ether	0.5 U	ug/L							
Methylene Chloride	0.5 U	ug/L							
o-Xylene	0.5 U	ug/L							
Styrene	0.5 U	ug/L							
Tetrachloroethene	0.2 U	ug/L							
Toluene	0.5 U	ug/L							
Surrogate: Toluene-d8	*19*	ug/L	*20.0*		*96.0*	*82-127*			
trans-1,2-Dichloroethene	0.5 U	ug/L							
trans-1,3-Dichloropropene	0.5 U	ug/L							
Trichloroethene	0.2 U	ug/L							
Trichlorofluoromethane	0.5 U	ug/L							
Vinyl Acetate	0.5 U	ug/L							
Vinyl Chloride	0.2 U	ug/L							
Blank (1337085-BLK2)			Prepared & Analyzed: 17-Sep-13						
1,1,1-Trichloroethane	0.5 U	ug/L							
1,1,2,2-Tetrachloroethane	0.5 U	ug/L							
1,1,2-Trichloroethane	0.5 U	ug/L							
1,1,2-Trichlorotrifluoroethane	0.5 U	ug/L							
1,1-Dichloroethane	0.5 U	ug/L							
1,1-Dichloroethene	0.5 U	ug/L							
1,2-Dibromoethane	0.5 U	ug/L							
1,2-Dichlorobenzene	0.5 U	ug/L							
1,2-Dichloroethane	0.5 U	ug/L							
Surrogate: 1,2-Dichloroethane-d4	*21*	ug/L	*20.0*		*103*	*26-175*			
1,2-Dichloropropane	0.5 U	ug/L							
1,3-Dichlorobenzene	0.5 U	ug/L							
1,4-Dichlorobenzene	0.5 U	ug/L							
2-Butanone	5.0 U	ug/L							
2-Hexanone	5.0 U	ug/L							

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1337085 - Volatile Organics No-Prep									
Blank (1337085-BLK2)			Prepared & Analyzed: 17-Sep-13						
Surrogate: 4-Bromofluorobenzene	*18*	ug/L	*20.0*		*87.6*	*86-126*			
4-Methyl-2-pentanone	5.0 U	ug/L							
Acetone	5.0 U	ug/L							
Acrolein	5.0 U	ug/L							
Acrylonitrile	5.0 U	ug/L							
Benzene	0.5 U	ug/L							
Bromodichloromethane	0.5 U	ug/L							
Bromoform	0.5 U	ug/L							
Carbon Disulfide	0.5 U	ug/L							
Carbon Tetrachloride	0.5 U	ug/L							
Chlorobenzene	0.5 U	ug/L							
Chloroethane	0.5 U	ug/L							
Chloroform	0.5 U	ug/L							
Chloromethane	0.5 U	ug/L							
cis-1,2-Dichloroethene	0.2 U	ug/L							
cis-1,3-Dichloropropene	0.5 U	ug/L							
Dibromochloromethane	0.5 U	ug/L							
Surrogate: Dibromofluoromethane	*20*	ug/L	*20.0*		*100*	*81-130*			
Ethylbenzene	0.5 U	ug/L							
m/p-Xylene	1.0 U	ug/L							
Methyl tert-butyl ether	0.5 U	ug/L							
Methylene Chloride	0.5 U	ug/L							
o-Xylene	0.5 U	ug/L							
Styrene	0.5 U	ug/L							
Tetrachloroethene	0.2 U	ug/L							
Toluene	0.5 U	ug/L							
Surrogate: Toluene-d8	*21*	ug/L	*20.0*		*103*	*82-127*			
trans-1,2-Dichloroethene	0.5 U	ug/L							
trans-1,3-Dichloropropene	0.5 U	ug/L							
Trichloroethene	0.2 U	ug/L							
Trichlorofluoromethane	0.5 U	ug/L							
Vinyl Acetate	0.5 U	ug/L							

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1337085 - Volatile Organics No-Prep									
Blank (1337085-BLK2)			Prepared & Analyzed: 17-Sep-13						
Vinyl Chloride	0.2 U	ug/L							
LCS (1337085-BS1)			Prepared & Analyzed: 13-Sep-13						
1,1,1-Trichloroethane	**22**	**ug/L**	**20.0**		**109**	**82-121**			
1,1,2,2-Tetrachloroethane	**20**	**ug/L**	**20.0**		**98.4**	**77-137**			
1,1,2-Trichloroethane	**21**	**ug/L**	**20.0**		**106**	**88-125**			
1,1,2-Trichlorotrifluoroethane	**24**	**ug/L**	**20.0**		**118**	**80-120**			
1,1-Dichloroethane	**22**	**ug/L**	**20.0**		**111**	**86-124**			
1,1-Dichloroethene	**25**	**ug/L**	**20.0**		**123**	**87-114**			
1,2-Dibromoethane	**21**	**ug/L**	**20.0**		**104**	**80-120**			
1,2-Dichlorobenzene	**20**	**ug/L**	**20.0**		**100**	**79-140**			
1,2-Dichloroethane	**21**	**ug/L**	**20.0**		**106**	**85-130**			
Surrogate: 1,2-Dichloroethane-d4	*20*	ug/L	*20.0*		*102*	*26-175*			
1,2-Dichloropropane	**22**	**ug/L**	**20.0**		**108**	**88-131**			
1,3-Dichlorobenzene	**20**	**ug/L**	**20.0**		**101**	**82-133**			
1,4-Dichlorobenzene	**20**	**ug/L**	**20.0**		**100**	**62-138**			
2-Butanone	**570**	**ug/L**	**200**		**285**	**73-130**			
2-Hexanone	**570**	**ug/L**	**200**		**284**	**70-138**			
Surrogate: 4-Bromofluorobenzene	*19*	ug/L	*20.0*		*95.8*	*86-126*			
4-Methyl-2-pentanone	**530**	**ug/L**	**200**		**267**	**66-134**			
Acetone	**680**	**ug/L**	**200**		**342**	**79-126**			
Acrolein	**250**	**ug/L**	**200**		**126**	**66-141**			
Acrylonitrile	**230**	**ug/L**	**200**		**116**	**86-124**			
Benzene	**22**	**ug/L**	**20.0**		**111**	**81-124**			
Bromodichloromethane	**22**	**ug/L**	**20.0**		**108**	**84-130**			
Bromoform	**21**	**ug/L**	**20.0**		**103**	**76-134**			
Carbon Disulfide	**24**	**ug/L**	**20.0**		**118**	**71-139**			
Carbon Tetrachloride	**22**	**ug/L**	**20.0**		**110**	**80-120**			
Chlorobenzene	**20**	**ug/L**	**20.0**		**101**	**87-124**			
Chloroethane	**25**	**ug/L**	**20.0**		**123**	**61-140**			
Chloroform	**22**	**ug/L**	**20.0**		**112**	**88-121**			
Chloromethane	**22**	**ug/L**	**20.0**		**111**	**69-126**			
cis-1,2-Dichloroethene	**23**	**ug/L**	**20.0**		**116**	**85-121**			

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1337085 - Volatile Organics No-Prep									
LCS (1337085-BS1)			Prepared & Analyzed: 13-Sep-13						
cis-1,3-Dichloropropene	**21**	**ug/L**	**20.0**		**104**	**80-129**			
Dibromochloromethane	**22**	**ug/L**	**20.0**		**108**	**81-130**			
Surrogate: Dibromofluoromethane	*21*	ug/L	*20.0*		*106*	*81-130*			
Ethylbenzene	**21**	**ug/L**	**20.0**		**104**	**73-130**			
m/p-Xylene	**42**	**ug/L**	**40.0**		**104**	**76-127**			
Methyl tert-butyl ether	**21**	**ug/L**	**20.0**		**103**	**50-150**			
Methylene Chloride	**18**	**ug/L**	**20.0**		**91.6**	**70-130**			
o-Xylene	**20**	**ug/L**	**20.0**		**101**	**77-130**			
Styrene	**20**	**ug/L**	**20.0**		**99.1**	**78-129**			
Tetrachloroethene	**21**	**ug/L**	**20.0**		**105**	**81-126**			
Toluene	**20**	**ug/L**	**20.0**		**102**	**87-127**			
Surrogate: Toluene-d8	*20*	ug/L	*20.0*		*98.6*	*82-127*			
trans-1,2-Dichloroethene	**21**	**ug/L**	**20.0**		**106**	**85-120**			
trans-1,3-Dichloropropene	**23**	**ug/L**	**20.0**		**113**	**82-130**			
Trichloroethene	**20**	**ug/L**	**20.0**		**102**	**84-123**			
Trichlorofluoromethane	**25**	**ug/L**	**20.0**		**123**	**80-120**			
Vinyl Acetate	**19**	**ug/L**	**20.0**		**96.8**	**63-133**			
Vinyl Chloride	**23**	**ug/L**	**20.0**		**114**	**69-126**			
LCS (1337085-BS2)			Prepared & Analyzed: 17-Sep-13						
1,1,1-Trichloroethane	**23**	**ug/L**	**20.0**		**117**	**82-121**			
1,1,2,2-Tetrachloroethane	**18**	**ug/L**	**20.0**		**90.4**	**77-137**			
1,1,2-Trichloroethane	**19**	**ug/L**	**20.0**		**97.2**	**88-125**			
1,1,2-Trichlorotrifluoroethane	**23**	**ug/L**	**20.0**		**114**	**80-120**			
1,1-Dichloroethane	**25**	**ug/L**	**20.0**		**123**	**86-124**			
1,1-Dichloroethene	**25**	**ug/L**	**20.0**		**123**	**87-114**			
1,2-Dibromoethane	**19**	**ug/L**	**20.0**		**94.6**	**80-120**			
1,2-Dichlorobenzene	**19**	**ug/L**	**20.0**		**94.0**	**79-140**			
1,2-Dichloroethane	**25**	**ug/L**	**20.0**		**123**	**85-130**			
Surrogate: 1,2-Dichloroethane-d4	*22*	ug/L	*20.0*		*111*	*26-175*			
1,2-Dichloropropane	**24**	**ug/L**	**20.0**		**118**	**88-131**			
1,3-Dichlorobenzene	**19**	**ug/L**	**20.0**		**94.6**	**82-133**			
1,4-Dichlorobenzene	**19**	**ug/L**	**20.0**		**93.4**	**62-138**			

PW Science and Engineering	Project: Sauro Property RIFS	
326 East D Street	Project Number: CIP-00020-01-03	Reported:
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

VOA - Quality Control

Environmental Services Laboratory

Sample ID Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1337085 - Volatile Organics No-Prep									
LCS (1337085-BS2)			Prepared & Analyzed: 17-Sep-13						
2-Butanone	**240**	**ug/L**	**200**		**122**	**73-130**			
2-Hexanone	**220**	**ug/L**	**200**		**108**	**70-138**			
Surrogate: 4-Bromofluorobenzene	*19*	ug/L	*20.0*		*93.1*	*86-126*			
4-Methyl-2-pentanone	**240**	**ug/L**	**200**		**122**	**66-134**			
Acetone	**260**	**ug/L**	**200**		**131**	**79-126**			
Acrolein	**240**	**ug/L**	**200**		**120**	**66-141**			
Acrylonitrile	**220**	**ug/L**	**200**		**112**	**86-124**			
Benzene	**24**	**ug/L**	**20.0**		**119**	**81-124**			
Bromodichloromethane	**24**	**ug/L**	**20.0**		**121**	**84-130**			
Bromoform	**18**	**ug/L**	**20.0**		**90.1**	**76-134**			
Carbon Disulfide	**24**	**ug/L**	**20.0**		**121**	**71-139**			
Carbon Tetrachloride	**24**	**ug/L**	**20.0**		**122**	**80-120**			
Chlorobenzene	**20**	**ug/L**	**20.0**		**102**	**87-124**			
Chloroethane	**26**	**ug/L**	**20.0**		**128**	**61-140**			
Chloroform	**24**	**ug/L**	**20.0**		**120**	**88-121**			
Chloromethane	**22**	**ug/L**	**20.0**		**112**	**69-126**			
cis-1,2-Dichloroethene	**24**	**ug/L**	**20.0**		**122**	**85-121**			
cis-1,3-Dichloropropene	**23**	**ug/L**	**20.0**		**115**	**80-129**			
Dibromochloromethane	**20**	**ug/L**	**20.0**		**99.2**	**81-130**			
Surrogate: Dibromofluoromethane	*22*	ug/L	*20.0*		*108*	*81-130*			
Ethylbenzene	**21**	**ug/L**	**20.0**		**104**	**73-130**			
m/p-Xylene	**43**	**ug/L**	**40.0**		**107**	**76-127**			
Methyl tert-butyl ether	**22**	**ug/L**	**20.0**		**110**	**50-150**			
Methylene Chloride	**20**	**ug/L**	**20.0**		**97.7**	**70-130**			
o-Xylene	**20**	**ug/L**	**20.0**		**99.0**	**77-130**			
Styrene	**20**	**ug/L**	**20.0**		**99.6**	**78-129**			
Tetrachloroethene	**18**	**ug/L**	**20.0**		**90.4**	**81-126**			
Toluene	**22**	**ug/L**	**20.0**		**112**	**87-127**			
Surrogate: Toluene-d8	*21*	ug/L	*20.0*		*107*	*82-127*			
trans-1,2-Dichloroethene	**23**	**ug/L**	**20.0**		**113**	**85-120**			
trans-1,3-Dichloropropene	**21**	**ug/L**	**20.0**		**106**	**82-130**			
Trichloroethene	**21**	**ug/L**	**20.0**		**106**	**84-123**			
Trichlorofluoromethane	**26**	**ug/L**	**20.0**		**129**	**80-120**			

VOA - Quality Control

Environmental Services Laboratory

Sample ID Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1337085 - Volatile Organics No-Prep									
LCS (1337085-BS2)			Prepared & Analyzed: 17-Sep-13						
Vinyl Acetate	**20**	**ug/L**	**20.0**		**100**	**63-133**			
Vinyl Chloride	**24**	**ug/L**	**20.0**		**122**	**69-126**			
Matrix Spike (1337085-MS1)	**Source: T309065-09**		Prepared & Analyzed: 13-Sep-13						
1,1,1-Trichloroethane	**21**	**ug/L**	**20.0**	**ND**	**103**	**82-121**			
1,1,2,2-Tetrachloroethane	**20**	**ug/L**	**20.0**	**ND**	**99.0**	**77-137**			
1,1,2-Trichloroethane	**20**	**ug/L**	**20.0**	**ND**	**99.8**	**88-125**			
1,1,2-Trichlorotrifluoroethane	**21**	**ug/L**	**20.0**	**ND**	**104**	**80-120**			
1,1-Dichloroethane	**21**	**ug/L**	**20.0**	**ND**	**107**	**86-124**			
1,1-Dichloroethene	**22**	**ug/L**	**20.0**	**ND**	**111**	**87-114**			
1,2-Dibromoethane	**19**	**ug/L**	**20.0**	**ND**	**95.9**	**80-120**			
1,2-Dichlorobenzene	**19**	**ug/L**	**20.0**	**ND**	**97.4**	**79-140**			
1,2-Dichloroethane	**19**	**ug/L**	**20.0**	**ND**	**96.8**	**85-130**			
Surrogate: 1,2-Dichloroethane-d4	*20*	ug/L	*20.0*		*101*	*26-175*			
1,2-Dichloropropane	**20**	**ug/L**	**20.0**	**ND**	**102**	**88-131**			
1,3-Dichlorobenzene	**20**	**ug/L**	**20.0**	**ND**	**97.6**	**82-133**			
1,4-Dichlorobenzene	**19**	**ug/L**	**20.0**	**ND**	**96.8**	**62-138**			
2-Butanone	**230**	**ug/L**	**200**	**ND**	**113**	**73-130**			
2-Hexanone	**210**	**ug/L**	**200**	**ND**	**107**	**70-138**			
Surrogate: 4-Bromofluorobenzene	*20*	ug/L	*20.0*		*99.4*	*86-126*			
4-Methyl-2-pentanone	**210**	**ug/L**	**200**	**0.4**	**104**	**66-134**			
Acetone	**230**	**ug/L**	**200**	**7.0**	**112**	**79-126**			
Acrolein	**220**	**ug/L**	**200**	**ND**	**111**	**66-141**			
Acrylonitrile	**220**	**ug/L**	**200**	**ND**	**110**	**86-124**			
Benzene	**21**	**ug/L**	**20.0**	**ND**	**106**	**81-124**			
Bromodichloromethane	**20**	**ug/L**	**20.0**	**ND**	**101**	**84-130**			
Bromoform	**20**	**ug/L**	**20.0**	**ND**	**97.5**	**76-134**			
Carbon Disulfide	**22**	**ug/L**	**20.0**	**ND**	**112**	**71-139**			
Carbon Tetrachloride	**21**	**ug/L**	**20.0**	**ND**	**104**	**80-120**			
Chlorobenzene	**19**	**ug/L**	**20.0**	**ND**	**95.8**	**87-124**			
Chloroethane	**25**	**ug/L**	**20.0**	**ND**	**126**	**61-140**			
Chloroform	**21**	**ug/L**	**20.0**	**ND**	**106**	**88-121**			
Chloromethane	**23**	**ug/L**	**20.0**	**0.09**	**112**	**69-126**			

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1337085 - Volatile Organics No-Prep									
Matrix Spike (1337085-MS1)	**Source: T309065-09**		Prepared & Analyzed: 13-Sep-13						
cis-1,2-Dichloroethene	**24**	**ug/L**	**20.0**	**ND**	**118**	**85-121**			
cis-1,3-Dichloropropene	**19**	**ug/L**	**20.0**	**ND**	**95.3**	**80-129**			
Dibromochloromethane	**20**	**ug/L**	**20.0**	**ND**	**99.6**	**81-130**			
Surrogate: Dibromofluoromethane	*22*	ug/L	*20.0*		*109*	*81-130*			
Ethylbenzene	**20**	**ug/L**	**20.0**	**ND**	**97.9**	**73-130**			
m/p-Xylene	**39**	**ug/L**	**40.0**	**ND**	**97.6**	**76-127**			
Methyl tert-butyl ether	**19**	**ug/L**	**20.0**	**ND**	**96.3**	**50-150**			
Methylene Chloride	**17**	**ug/L**	**20.0**	**0.2**	**85.9**	**70-130**			
o-Xylene	**20**	**ug/L**	**20.0**	**ND**	**97.6**	**77-130**			
Styrene	**19**	**ug/L**	**20.0**	**ND**	**95.7**	**78-129**			
Tetrachloroethene	**20**	**ug/L**	**20.0**	**ND**	**101**	**81-126**			
Toluene	**19**	**ug/L**	**20.0**	**ND**	**95.2**	**87-127**			
Surrogate: Toluene-d8	*19*	ug/L	*20.0*		*96.8*	*82-127*			
trans-1,2-Dichloroethene	**20**	**ug/L**	**20.0**	**ND**	**102**	**85-120**			
trans-1,3-Dichloropropene	**20**	**ug/L**	**20.0**	**ND**	**102**	**82-130**			
Trichloroethene	**19**	**ug/L**	**20.0**	**ND**	**92.8**	**84-123**			
Trichlorofluoromethane	**25**	**ug/L**	**20.0**	**ND**	**123**	**80-120**			
Vinyl Acetate	**19**	**ug/L**	**20.0**	**ND**	**93.6**	**63-133**			
Vinyl Chloride	**23**	**ug/L**	**20.0**	**ND**	**116**	**68-127**			
Matrix Spike Dup (1337085-MSD1)	**Source: T309065-09**		Prepared & Analyzed: 13-Sep-13						
1,1,1-Trichloroethane	**19**	**ug/L**	**20.0**	**ND**	**97.4**	**82-121**	**5.78**	**20**	
1,1,2,2-Tetrachloroethane	**21**	**ug/L**	**20.0**	**ND**	**103**	**77-137**	**4.15**	**20**	
1,1,2-Trichloroethane	**20**	**ug/L**	**20.0**	**ND**	**101**	**88-125**	**1.54**	**20**	
1,1,2-Trichlorotrifluoroethane	**19**	**ug/L**	**20.0**	**ND**	**93.3**	**80-120**	**10.9**	**20**	
1,1-Dichloroethane	**20**	**ug/L**	**20.0**	**ND**	**102**	**86-124**	**4.56**	**20**	
1,1-Dichloroethene	**21**	**ug/L**	**20.0**	**ND**	**103**	**87-114**	**7.44**	**20**	
1,2-Dibromoethane	**20**	**ug/L**	**20.0**	**ND**	**98.9**	**80-120**	**3.08**	**20**	
1,2-Dichlorobenzene	**18**	**ug/L**	**20.0**	**ND**	**92.4**	**79-140**	**5.37**	**20**	
1,2-Dichloroethane	**20**	**ug/L**	**20.0**	**ND**	**102**	**85-130**	**5.13**	**20**	
Surrogate: 1,2-Dichloroethane-d4	*19*	ug/L	*20.0*		*96.6*	*26-175*			
1,2-Dichloropropane	**20**	**ug/L**	**20.0**	**ND**	**101**	**88-131**	**1.24**	**20**	
1,3-Dichlorobenzene	**18**	**ug/L**	**20.0**	**ND**	**90.1**	**82-133**	**7.99**	**20**	

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1337085 - Volatile Organics No-Prep									
Matrix Spike Dup (1337085-MSD1)	**Source: T309065-09**		Prepared & Analyzed: 13-Sep-13						
1,4-Dichlorobenzene	**18**	**ug/L**	**20.0**	**ND**	**89.3**	**62-138**	**8.11**	**20**	
2-Butanone	**230**	**ug/L**	**200**	**ND**	**115**	**73-130**	**1.04**	**20**	
2-Hexanone	**240**	**ug/L**	**200**	**ND**	**119**	**70-138**	**10.7**	**20**	
Surrogate: 4-Bromofluorobenzene	*19*	ug/L	*20.0*		*96.9*	*86-126*			
4-Methyl-2-pentanone	**240**	**ug/L**	**200**	**0.4**	**118**	**66-134**	**12.4**	**20**	
Acetone	**250**	**ug/L**	**200**	**7.0**	**120**	**79-126**	**6.57**	**20**	
Acrolein	**250**	**ug/L**	**200**	**ND**	**127**	**66-141**	**13.6**	**20**	
Acrylonitrile	**220**	**ug/L**	**200**	**ND**	**109**	**86-124**	**0.214**	**20**	
Benzene	**20**	**ug/L**	**20.0**	**ND**	**97.5**	**81-124**	**8.35**	**20**	
Bromodichloromethane	**20**	**ug/L**	**20.0**	**ND**	**102**	**84-130**	**1.28**	**20**	
Bromoform	**19**	**ug/L**	**20.0**	**ND**	**97.2**	**76-134**	**0.360**	**20**	
Carbon Disulfide	**20**	**ug/L**	**20.0**	**ND**	**102**	**71-139**	**9.18**	**20**	
Carbon Tetrachloride	**20**	**ug/L**	**20.0**	**ND**	**97.8**	**80-120**	**6.62**	**20**	
Chlorobenzene	**19**	**ug/L**	**20.0**	**ND**	**95.2**	**87-124**	**0.576**	**20**	
Chloroethane	**23**	**ug/L**	**20.0**	**ND**	**115**	**61-140**	**8.84**	**20**	
Chloroform	**20**	**ug/L**	**20.0**	**ND**	**99.6**	**88-121**	**6.32**	**20**	
Chloromethane	**21**	**ug/L**	**20.0**	**0.09**	**104**	**69-126**	**7.59**	**20**	
cis-1,2-Dichloroethene	**21**	**ug/L**	**20.0**	**ND**	**105**	**85-121**	**11.3**	**20**	
cis-1,3-Dichloropropene	**19**	**ug/L**	**20.0**	**ND**	**96.2**	**80-129**	**0.992**	**20**	
Dibromochloromethane	**20**	**ug/L**	**20.0**	**ND**	**101**	**81-130**	**1.10**	**20**	
Surrogate: Dibromofluoromethane	*21*	ug/L	*20.0*		*103*	*81-130*			
Ethylbenzene	**19**	**ug/L**	**20.0**	**ND**	**96.0**	**73-130**	**1.91**	**20**	
m/p-Xylene	**39**	**ug/L**	**40.0**	**ND**	**96.6**	**76-127**	**1.13**	**20**	
Methyl tert-butyl ether	**19**	**ug/L**	**20.0**	**ND**	**96.6**	**50-150**	**0.363**	**20**	
Methylene Chloride	**18**	**ug/L**	**20.0**	**0.2**	**87.1**	**70-130**	**1.37**	**20**	
o-Xylene	**19**	**ug/L**	**20.0**	**ND**	**93.7**	**77-130**	**4.13**	**20**	
Styrene	**18**	**ug/L**	**20.0**	**ND**	**91.5**	**78-129**	**4.49**	**20**	
Tetrachloroethene	**19**	**ug/L**	**20.0**	**ND**	**94.2**	**81-126**	**6.97**	**20**	
Toluene	**19**	**ug/L**	**20.0**	**ND**	**95.6**	**87-127**	**0.472**	**20**	
Surrogate: Toluene-d8	*20*	ug/L	*20.0*		*99.4*	*82-127*			
trans-1,2-Dichloroethene	**19**	**ug/L**	**20.0**	**ND**	**95.1**	**85-120**	**7.15**	**20**	
trans-1,3-Dichloropropene	**21**	**ug/L**	**20.0**	**ND**	**103**	**82-130**	**0.779**	**20**	
Trichloroethene	**18**	**ug/L**	**20.0**	**ND**	**91.2**	**84-123**	**1.74**	**20**	

VOA - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1337085 - Volatile Organics No-Prep									
Matrix Spike Dup (1337085-MSD1)	**Source: T309065-09**		Prepared & Analyzed: 13-Sep-13						
Trichlorofluoromethane	**22**	**ug/L**	**20.0**	**ND**	**110**	**80-120**	**11.2**	**20**	
Vinyl Acetate	**18**	**ug/L**	**20.0**	**ND**	**88.4**	**63-133**	**5.60**	**20**	
Vinyl Chloride	**21**	**ug/L**	**20.0**	**ND**	**106**	**68-127**	**9.51**	**20**	

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	23-Sep-13 11:30

Notes and Definitions

UJ	Analyte not detected at or above the associated estimated value
J	The result is an estimated concentration.
U	Analyte Not Detected at or above the associated value
UJ	Analyte Not Detected at or above the associated estimated value
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

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

Lab Work Order Number T309065

Client Name: PW Science and Engineering	Project Name: Sauro Property RIFS
Client Contact: Calvin Taylor	Project Number: CIP-00020-01-03
Address: 326 East D Street	Project Description: Sauro Property Monitoring Wells
City: Tacoma	PO Number: 61000055543
State/Zip: WA, 98421	Sampler Signatures: Bill Essmeier, Nancy Boyle
Phone: (253) 593-7711 / Fax: (253) 502-2295	
Samplers: Bill Essmeier	

Requested Analyses: Field Measurement; EPA 8260C

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days) ____ Expedited (days) ____ Due Date ____

Sample Name or Field ID	#	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Field Measurement	EPA 8260C	Sample Comments
Trip Blank	-01	9-9-13	10 00	G	W	3		3	
MW1-PP	-02		11 30	G	W	3		3	
MW2-PP	-03		11 40	G	W	3		3	
MW13-(51.5)	-04		12 20	G	W	3		3	
LAI-MW1-(63)	-05		1210	G	W	3		3	
LAI-MW2-(65)	-06		11 50	G	W	3		3	
LAI-MW3-(75)	-07		1200	G	W	3		3	
LAI-MW4-(25)	-08		1232	G	W	3		3	
LAI-MW5-(42)	-09		1050 40	G	W	3		3	
LAI-MW5-(50)	-10		1050	G	W	3		3	
RNS-MW2-(21.5)	-11		11 00	G	W	3		3	
RNS-MW2-(38.5)	-12	↓	1105	G	W	3		3	

Relinquished By	Received By: Bill Essmeier	Date/Time: 9-Sep 13 @ 1250
Relinquished By	Received By	Date/Time
Relinquished By	Received By	Date/Time
Cooler Numbers and Temperatures		

Comments

Matrix Codes: W=Water

Preserv. Codes:

Login Reviewed By: _____

Login Reviewed Date: 9/16/13

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

Lab Work Order Number T309065

Client Name: PW Science and Engineering	Project Name: Sauro Property RIFS
Client Contact: Calvin Taylor	Project Number: CIP-00020-01-03
Address: 326 East D Street	Project Description: Sauro Property Monitoring Wells
City: Tacoma	PO Number: 61000055543
State/Zip: WA, 98421	Sampler Signatures: Bill Essmeier, Nancy Boyle
Phone: (253) 593-7711 / Fax: (253) 502-2295	
Samplers: Bill Essmeier	

Requested Analyses: Field Measurement; EPA 8260C

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days); Expedited (days); Due Date

Sample Name or Field ID	#	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	EPA 8260C	Sample Comments
RNS-MW6-(42.5)	-13	9/9/2013	1112	G	W	3	3	
RNS-MW6-(52.5)	-14	9/9/2013	1113	G	W	3	3	
MW-5 DUP	-15	9/9/2013	1050	G	W	3	3	
~~MW-JS~~	~~-16~~	~~9/9/2013~~		~~G~~	~~W~~	~~3~~	~~3~~	

Relinquished By	Received By: Bill Essmeier	Date/Time: 9-Sep-13 1250
Relinquished By	Received By	Date/Time
Relinquished By	Received By	Date/Time
Cooler Numbers and Temperatures		

Comments: MW-JS is near Johny's Seafood.

Matrix Codes: W=Water

Preserv. Codes:

Login Reviewed By: _____

Login Reviewed Date: 9/12/13

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

Lab Work Order Number T309065

Client Name: PW Science and Engineering	Project Name: Sauro Property RIFS
Client Contact: Calvin Taylor	Project Number: CIP-00020-01-03
Address: 326 East D Street	Project Description: Sauro Property Monitoring Wells
City: Tacoma	PO Number: 61000055543
State/Zip: WA, 98421	Sampler Signatures: Bill Essmeier 4 Nancy Boyle
Phone: (253) 593-7711 / Fax: (253) 502-2295	
Samplers: Bill Essmeier	

Requested Analyses: Field Measurement; EPA 8260C

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days); Expedited (days); Due Date

Sample Name or Field ID #	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Field Measurement	EPA 8260C	Sample Comments
MW-JS -16	9/12/2013	14:40	G	W	3		3	

Relinquished By	Received By: Bill Essmeier	Date/Time: 9-12-2013 at 1540
Relinquished By	Received By	Date/Time
Relinquished By	Received By	Date/Time
Cooler Numbers and Temperatures		

Comments: Trip Blank T309065 was tripped along for sampling. BE

Matrix Codes: W=Water

Preserv. Codes:

Login Reviewed By: _____

Login Reviewed Date: AP 9/12/13

Sauro Property Field data

T309065

Well	Level	Date	Time	Notes b1337092
MW1-PP	17.57	9-9-13	11:30	3 vials, only ~150mls then no water.
	17.88	9-6-13	1140	Pre-sample purge 320mL
MW2-PP	15,94	9-9-13	1140	3vials
	16.07	9-6-13	1205	Pre-sample purge 670mL
MW13-(51.5)	39.60	9-9-13	1220	3Vials
LAI-MW1-(63)	45.10	9-9-13	1210	3Vials
LAI-MW2-(65)	44,60	9-9-13	1150	3Vials
LAI-MW3-(75)	51.07	9-9-13	1200	3Vials
LAI-MW4-(25)	11.55	9-9-13	1232	3Vials
LAI-MW5-(42)	24.36	9-9-13	1040	6Vials QC
LAI-MW5-(50)	24.36	9-9-13	1050	6Vials DUP
RNS-MW2-(21.5)	17.24	9-9-13	11:00	3vials
RNS-MW2-(38.5)	17.24	9-9-13	11:05	3Vials
RNS-MW6-(42.5)	36.55	9-9-13	11:12	3vials
RNS-MW6-(52.5)	36.55	9-9-13	11:15	3vials
Trip Blank		9-9-13	10:00	3Vials

LAI-MW5 (50)				DUP
LAI-MW5 (42)				QC

MW-JS 6,90' 9-12-13 1440 3vials for 8260.

New sample location just west of Johnnys Seafood, in sidewalk.

Pumped by Foot valve with ~ PVC tube.

City of Tacoma
Environmental Services Laboratory

30 September 2013

Calvin Taylor
PW Science and Engineering
326 East D Street
Tacoma, WA 98421

Subject: Sauro Property RIFS

Enclosed are the analytical results for samples collected between 09/09/2013 and 09/12/2013.

This report has been re-issued because the well ID for MW-JS was changed to MW-JS2 after the original lab report was released on 9-23-13. The only changes to this report are the new cover letter and page 43 of 53 (MW-JS became of MW-JS2). This change was initiated after review of the field notes revealed the well identified as MW-JS was not well MW-JS, but a different well.

If you have any questions concerning this report, call me at (253)502-2130. Please note that the samples associated with this report will be discarded 3 months from the date of this report unless we are notified otherwise.

Sincerely,

Stuart Magoon
Assistant Division Manager
Environmental Services Laboratory

cc.

PW Science and Engineering	Project: **Sauro Property RIFS**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	30-Sep-13 11:51

MW-JS2
T309065-16 (Water)
12-Sep-13 14:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
VOA							
Methyl tert-butyl ether	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Methylene Chloride	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
o-Xylene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Styrene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Tetrachloroethene	0.2 U	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Toluene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,2-Dichloroethene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
trans-1,3-Dichloropropene	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichloroethene	0.2 U	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Trichlorofluoromethane	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Acetate	0.5 U	0.5		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Vinyl Chloride	0.2 U	0.2		ug/L	17-Sep-13	17-Sep-13	EPA 8260C
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*26-175*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: 4-Bromofluorobenzene		*88.6 %*	*86-126*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Dibromofluoromethane		*108 %*	*81-130*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*
Surrogate: Toluene-d8		*110 %*	*82-127*		*17-Sep-13*	*17-Sep-13*	*EPA 8260C*

June 2013 Monitored Natural Attenuation Data
Third Quarter Sampling
Lab Report T303001

City of Tacoma
Environmental Services Laboratory

16 July 2013

Calvin Taylor
PW Science and Engineering
326 East D Street
Tacoma, WA 98421

Subject: Sauro Property MNA

Enclosed are the analytical results for samples collected between 06/19/2013 and 06/21/2013.

Test America, Incorporated analyzed the samples by RSK 175, Method for Dissolved Gases (GC). Their data is included.

Oxidation Reduction Potential requires a separate report format and is included in the report as pages 4 of 16 thru 14 of 16. which are inserted after the other report pages 1 of 35 thru 34 of 35.

If you have any questions concerning this report, call me at (253)502-2130. Please note that the samples associated with this report will be discarded 3 months from the date of this report unless we are notified otherwise.

Sincerely,

Stuart Magoon
Assistant Division Manager
Environmental Services Laboratory

cc.

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled
LAI-MW1	T306001-01	Water	20-Jun-13 12:38
LAI-MW2	T306001-02	Water	19-Jun-13 14:40
LAI-MW3	T306001-03	Water	20-Jun-13 11:45
LAI-MW4	T306001-04	Water	20-Jun-13 10:40
LAI-MW5	T306001-05	Water	19-Jun-13 13:02
MW1-PP	T306001-06	Water	19-Jun-13 13:35
MW2-PP	T306001-07	Water	19-Jun-13 14:00
MW13	T306001-08	Water	21-Jun-13 10:33
RNS-MW2	T306001-09	Water	20-Jun-13 15:40
RNS-MW6	T306001-10	Water	21-Jun-13 11:28
RNS-MW7	T306001-11	Water	20-Jun-13 16:37
RNS-MW6-DUP	T306001-12	Water	21-Jun-13 11:30
Trip Blank	T306001-13	Water	19-Jun-13 10:30

CHAIN OF CUSTODY

The samples were received under appropriate Chain of Custody procedures.

SAMPLE RECEIPT, PRESERVATION AND STORAGE

Samples were properly preserved and stored in accordance with the applicable method requirements.

HOLDING TIMES

All analyses were performed within the required holding times.

METHODS

The samples were analyzed by the following method:

Standard Methods 4500-Cl-E for Chloride
Standard Methods 5310B for Total Organic Carbon
Standard Methods 4500-SO4 E for Total Sulfate
Standard Methods 4500-S2D for Sulfide
Standard Methods 2130B for Turbidity
EPA Method 170.1 for Temperature
EPA Method 353.2 for Nitrate
EPA Method 353.2 for Nitrite
Field Specific Conductivity
Oxydation Reduction Potential
Iron, Ferrous Hach Field Kit
Dissolved Oxygen, Field
pH, Field
Turbidity, Field
Water Level

CONTRACT LABS

The samples were sent to TestAmerica for analysis of methane, ethane, ethylene and acetylene (MEEA) by EPA method RSK-175.

MINIMUM REPORTING LIMITS

All analytes are reported to the Practical Quantitation Limit (PQL) which is below or no greater than the Minimum Project Reporting Limit. Reporting limit goals were 5 ug/L for methane and 1 ug/L for ethane, ethylene, and acetylene. Requested reporting limits were 5 ug/L for methane and 1 ug/L for ethane, ethylene, and acetylene. The TestAmerica reporting limit was 5 ug/L for all four compounds.

BLANKS

Blanks were analyzed at the required frequencies of the methods. There was a minimum of one Method Blank for each analytical method. Blank values were less than the Practical Quantitation Limits or sample concentrations were greater than 5 times the blank values.

LABORATORY CONTROL SAMPLES

Laboratory Control Samples were analyzed with these samples for all parameters. The recoveries for all associated LCS were within the laboratory limits.

DUPLICATE SAMPLE ANALYSIS

Duplicate analysis was performed with these samples. Relative percent differences were within the laboratory or project limits.

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSIS

Matrix Spike and Matrix Spike Duplicate analysis was performed with these samples. The recoveries were within the laboratory control limits.

DATA AVAILABILITY

All data associated with the samples referenced in this report are archived at the Environmental Services Laboratory and are available upon request.

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

LAI-MW1
T306001-01 (Water)
20-Jun-13 12:38

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**43.1**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	**1.39**	0.010	mg/L	21-Jun-13	21-Jun-13	EPA 353.2
Nitrite as N	**0.014**	0.010	mg/L	21-Jun-13	21-Jun-13	353.2
Total Organic Carbon	**9.26**	1.00	mg/L	21-Jun-13	21-Jun-13	SM 5310 B
Sulfate	**24.9**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D
FIELD						
Conductivity	**511**	2.00	uS/cm		03-Jul-13	SM 2510 B
Dissolved oxygen	**0.800**	0.100	mg/L		03-Jul-13	SM 4500-O G
Fe(II)	**0.090**	0.030	mg/L		03-Jul-13	HACH 8131
pH	**6.35**	0.100	pH Units		03-Jul-13	SM 4500-H+ B
Temperature	**60.6**	0.00	°F		03-Jul-13	EPA 170.1
Turbidity	**52.0**	10.0	NTU		03-Jul-13	SM 2130 B
Water Level	**44.34**	0.00	Feet		03-Jul-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

LAI-MW2
T306001-02 (Water)
19-Jun-13 14:40

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**10.8**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	**0.018**	0.010	mg/L	20-Jun-13	20-Jun-13	EPA 353.2
Nitrite as N	0.010 U	0.010	mg/L	20-Jun-13	20-Jun-13	353.2
Total Organic Carbon	**10.3**	1.00	mg/L	21-Jun-13	21-Jun-13	SM 5310 B
Sulfate	**17.2**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D
FIELD						
Conductivity	**451**	2.00	uS/cm		03-Jul-13	SM 2510 B
Dissolved oxygen	**1.50**	0.100	mg/L		03-Jul-13	SM 4500-O G
Fe(II)	0.030 U	0.030	mg/L		03-Jul-13	HACH 8131
pH	**6.77**	0.100	pH Units		03-Jul-13	SM 4500-H+ B
Temperature	**59.8**	0.00	°F		03-Jul-13	EPA 170.1
Turbidity	**18.1**	10.0	NTU		03-Jul-13	SM 2130 B
Water Level	**44.41**	0.00	Feet		03-Jul-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

LAI-MW3
T306001-03 (Water)
20-Jun-13 11:45

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**17.1**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	**0.647**	0.010	mg/L	21-Jun-13	21-Jun-13	EPA 353.2
Nitrite as N	**0.013**	0.010	mg/L	21-Jun-13	21-Jun-13	353.2
Total Organic Carbon	**11.8**	1.00	mg/L	21-Jun-13	21-Jun-13	SM 5310 B
Sulfate	**23.3**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D
FIELD						
Conductivity	**548**	2.00	uS/cm		03-Jul-13	SM 2510 B
Dissolved oxygen	**1.30**	0.100	mg/L		03-Jul-13	SM 4500-O G
Fe(II)	**0.080**	0.030	mg/L		03-Jul-13	HACH 8131
pH	**6.78**	0.100	pH Units		03-Jul-13	SM 4500-H+ B
Temperature	**59.9**	0.00	°F		03-Jul-13	EPA 170.1
Turbidity	**101**	10.0	NTU		03-Jul-13	SM 2130 B
Water Level	**50.85**	0.00	Feet		03-Jul-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

LAI-MW4
T306001-04 (Water)
20-Jun-13 10:40

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**32.2**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	**0.019**	0.010	mg/L	21-Jun-13	21-Jun-13	EPA 353.2
Nitrite as N	0.010 U	0.010	mg/L	21-Jun-13	21-Jun-13	353.2
Total Organic Carbon	**17.8**	1.00	mg/L	21-Jun-13	21-Jun-13	SM 5310 B
Sulfate	**11.3**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D
FIELD						
Conductivity	**682**	2.00	uS/cm		03-Jul-13	SM 2510 B
Dissolved oxygen	**1.84**	0.100	mg/L		03-Jul-13	SM 4500-O G
Fe(II)	**6.40**	0.150	mg/L		03-Jul-13	HACH 8131
pH	**6.51**	0.100	pH Units		03-Jul-13	SM 4500-H+ B
Temperature	**57.9**	0.00	°F		03-Jul-13	EPA 170.1
Turbidity	10.0 U	10.0	NTU		03-Jul-13	SM 2130 B
Water Level	**12.60**	0.00	Feet		03-Jul-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

LAI-MW5

T306001-05 (Water)

19-Jun-13 13:02

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**59.7**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	0.010 U	0.010	mg/L	20-Jun-13	20-Jun-13	EPA 353.2
Nitrite as N	**0.037**	0.010	mg/L	20-Jun-13	20-Jun-13	353.2
Total Organic Carbon	**17.8**	1.00	mg/L	21-Jun-13	21-Jun-13	SM 5310 B
Sulfate	**10.1**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D
FIELD						
Conductivity	**635**	2.00	uS/cm		03-Jul-13	SM 2510 B
Dissolved oxygen	**1.70**	0.100	mg/L		03-Jul-13	SM 4500-O G
Fe(II)	**7.95**	0.150	mg/L		03-Jul-13	HACH 8131
pH	**6.20**	0.100	pH Units		03-Jul-13	SM 4500-H+ B
Temperature	**61.5**	0.00	°F		03-Jul-13	EPA 170.1
Turbidity	**117**	10.0	NTU		03-Jul-13	SM 2130 B
Water Level	**24.24**	0.00	Feet		03-Jul-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

MW1-PP
T306001-06 (Water)
19-Jun-13 13:35

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**35.8**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	0.010 U	0.010	mg/L	20-Jun-13	20-Jun-13	EPA 353.2
Nitrite as N	**0.037**	0.010	mg/L	20-Jun-13	20-Jun-13	353.2
Total Organic Carbon	**23.0**	1.00	mg/L	21-Jun-13	22-Jun-13	SM 5310 B
Sulfate	**60.8**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D
FIELD						
Conductivity	**928**	2.00	uS/cm		03-Jul-13	SM 2510 B
Dissolved oxygen	**1.41**	0.100	mg/L		03-Jul-13	SM 4500-O G
Fe(II)	**17.1**	0.300	mg/L		03-Jul-13	HACH 8131
pH	**6.51**	0.100	pH Units		03-Jul-13	SM 4500-H+ B
Temperature	**62.1**	0.00	°F		03-Jul-13	EPA 170.1
Turbidity	**22.9**	10.0	NTU		03-Jul-13	SM 2130 B
Water Level	**16.44**	0.00	Feet		03-Jul-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

MW2-PP
T306001-07 (Water)
19-Jun-13 14:00

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**81.0**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	**2.18**	0.010	mg/L	20-Jun-13	20-Jun-13	EPA 353.2
Nitrite as N	**0.016**	0.010	mg/L	20-Jun-13	20-Jun-13	353.2
Total Organic Carbon	**13.9**	1.00	mg/L	21-Jun-13	22-Jun-13	SM 5310 B
Sulfate	**31.5**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D
FIELD						
Conductivity	**752**	2.00	uS/cm		03-Jul-13	SM 2510 B
Dissolved oxygen	**2.00**	0.100	mg/L		03-Jul-13	SM 4500-O G
Fe(II)	**0.130**	0.030	mg/L		03-Jul-13	HACH 8131
pH	**6.64**	0.100	pH Units		03-Jul-13	SM 4500-H+ B
Temperature	**65.3**	0.00	°F		03-Jul-13	EPA 170.1
Turbidity	**17.0**	10.0	NTU		03-Jul-13	SM 2130 B
Water Level	**15.52**	0.00	Feet		03-Jul-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

MW13
T306001-08 (Water)
21-Jun-13 10:33

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**9.91**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	**1.12**	0.010	mg/L	21-Jun-13	21-Jun-13	EPA 353.2
Nitrite as N	**0.014**	0.010	mg/L	21-Jun-13	21-Jun-13	353.2
Total Organic Carbon	**7.30**	1.00	mg/L	08-Jul-13	08-Jul-13	SM 5310 B
Sulfate	**51.3**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D
FIELD						
Conductivity	**553**	2.00	uS/cm		03-Jul-13	SM 2510 B
Dissolved oxygen	**3.30**	0.100	mg/L		03-Jul-13	SM 4500-O G
Fe(II)	0.150 U	0.150	mg/L		03-Jul-13	HACH 8131
pH	**6.62**	0.100	pH Units		03-Jul-13	SM 4500-H+ B
Temperature	**58.9**	0.00	°F		03-Jul-13	EPA 170.1
Turbidity	**1770**	50.0	NTU		03-Jul-13	SM 2130 B
Water Level	**39.20**	0.00	Feet		03-Jul-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

RNS-MW2
T306001-09 (Water)
20-Jun-13 15:40

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**31.8**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	**2.99**	0.010	mg/L	21-Jun-13	21-Jun-13	EPA 353.2
Nitrite as N	0.010 U	0.010	mg/L	21-Jun-13	21-Jun-13	353.2
Total Organic Carbon	**11.6**	1.00	mg/L	21-Jun-13	22-Jun-13	SM 5310 B
Sulfate	**77.3**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D
FIELD						
Conductivity	**431**	2.00	uS/cm		03-Jul-13	SM 2510 B
Dissolved oxygen	**5.97**	0.100	mg/L		03-Jul-13	SM 4500-O G
Fe(II)	**0.550**	0.150	mg/L		03-Jul-13	HACH 8131
pH	**6.50**	0.100	pH Units		03-Jul-13	SM 4500-H+ B
Temperature	**57.6**	0.00	°F		03-Jul-13	EPA 170.1
Turbidity	**1800**	50.0	NTU		03-Jul-13	SM 2130 B
Water Level	**16.90**	0.00	Feet		03-Jul-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

RNS-MW6
T306001-10 (Water)
21-Jun-13 11:28

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**20.2**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	**0.454**	0.010	mg/L	21-Jun-13	21-Jun-13	EPA 353.2
Nitrite as N	**0.010**	0.010	mg/L	21-Jun-13	21-Jun-13	353.2
Total Organic Carbon	**10.5**	1.00	mg/L	21-Jun-13	22-Jun-13	SM 5310 B
Sulfate	**40.9**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D
FIELD						
Conductivity	**609**	2.00	uS/cm		03-Jul-13	SM 2510 B
Dissolved oxygen	**3.70**	0.100	mg/L		03-Jul-13	SM 4500-O G
Fe(II)	0.030 U	0.030	mg/L		03-Jul-13	HACH 8131
pH	**6.18**	0.100	pH Units		03-Jul-13	SM 4500-H+ B
Temperature	**58.6**	0.00	°F		03-Jul-13	EPA 170.1
Turbidity	**1020**	50.0	NTU		03-Jul-13	SM 2130 B
Water Level	**34.90**	0.00	Feet		03-Jul-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

RNS-MW7
T306001-11 (Water)
20-Jun-13 16:37

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**28.4**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	**0.613**	0.010	mg/L	21-Jun-13	21-Jun-13	EPA 353.2
Nitrite as N	0.010 U	0.010	mg/L	21-Jun-13	21-Jun-13	353.2
Total Organic Carbon	**4.57**	1.00	mg/L	21-Jun-13	22-Jun-13	SM 5310 B
Sulfate	**43.7**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D
FIELD						
Conductivity	**457**	2.00	uS/cm		03-Jul-13	SM 2510 B
Dissolved oxygen	**2.12**	0.100	mg/L		03-Jul-13	SM 4500-O G
Fe(II)	0.150 U	0.150	mg/L		03-Jul-13	HACH 8131
pH	**6.62**	0.100	pH Units		03-Jul-13	SM 4500-H+ B
Temperature	**58.6**	0.00	°F		03-Jul-13	EPA 170.1
Turbidity	**885**	50.0	NTU		03-Jul-13	SM 2130 B
Water Level	**20.78**	0.00	Feet		03-Jul-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

RNS-MW6-DUP
T306001-12 (Water)
21-Jun-13 11:30

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**20.2**	1.00	mg/L	26-Jun-13	26-Jun-13	SM 4500-Cl⁻ E
Nitrate as N	**0.405**	0.010	mg/L	21-Jun-13	21-Jun-13	EPA 353.2
Nitrite as N	0.010 U	0.010	mg/L	21-Jun-13	21-Jun-13	353.2
Total Organic Carbon	**12.3**	1.00	mg/L	21-Jun-13	22-Jun-13	SM 5310 B
Sulfate	**55.2**	5.0	mg/L	26-Jun-13	26-Jun-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	24-Jun-13	24-Jun-13	SM 4500-S2D

LAI-MW1
T306001-01 (Water)
20-Jun-13 12:38

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*101 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

LAI-MW2
T306001-02 (Water)
19-Jun-13 14:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	**0.043**	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*104 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

LAI-MW3
T306001-03 (Water)
20-Jun-13 11:45

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*105 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

LAI-MW4
T306001-04 (Water)
20-Jun-13 10:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	**3.4**	0.10		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*111 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

LAI-MW5
T306001-05 (Water)
19-Jun-13 13:02

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	**10**	0.20		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*104 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

MW1-PP
T306001-06 (Water)
19-Jun-13 13:35

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	**0.30**	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*91 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

MW2-PP
T306001-07 (Water)
19-Jun-13 14:00

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	**0.083**	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*98 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

MW13
T306001-08 (Water)
21-Jun-13 10:33

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	**0.0093**	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*105 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

RNS-MW2
T306001-09 (Water)
20-Jun-13 15:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*103 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

RNS-MW6
T306001-10 (Water)
21-Jun-13 11:28

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	**0.0076**	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*103 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

Center for Urban Waters - Environmental Services Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed By

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

RNS-MW7
T306001-11 (Water)
20-Jun-13 16:37

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*97 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

RNS-MW6-DUP
T306001-12 (Water)
21-Jun-13 11:30

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	**0.016**	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*100 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

Trip Blank
T306001-13 (Water)
19-Jun-13 10:30

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Methane	0.0050 U	0.0050		mg/L		26-Jun-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*98 %*	*62-124*			*26-Jun-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

CONVENTIONAL - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1325073 - Conventionals No-Prep									
Blank (1325073-BLK1)			Prepared & Analyzed: 20-Jun-13						
Nitrite as N	0.010 U	mg/L							
Duplicate (1325073-DUP1)		Source: T306001-02	Prepared & Analyzed: 20-Jun-13						
Nitrite as N	0.010 U	mg/L		ND				35	
Matrix Spike (1325073-MS1)		Source: T306001-02	Prepared & Analyzed: 20-Jun-13						
Nitrite as N	**1.06**	**mg/L**	**1.00**	**ND**	**106**	**70-130**			
Reference (1325073-SRM1)			Prepared & Analyzed: 20-Jun-13						
Nitrite as N	**0.787**	**mg/L**	**0.779**		**101**	**90-110**			
Batch 1325075 - Conventionals No-Prep									
Blank (1325075-BLK1)			Prepared & Analyzed: 20-Jun-13						
Nitrate as N	0.010 U	mg/L							
LCS (1325075-BS1)			Prepared & Analyzed: 20-Jun-13						
Nitrate as N	**0.814**	**mg/L**	**0.896**		**91**	**80-120**			
Duplicate (1325075-DUP1)		Source: T306001-02	Prepared & Analyzed: 20-Jun-13						
Nitrate as N	**0.015**	**mg/L**		**0.018**			**18**	**35**	
Matrix Spike (1325075-MS1)		Source: T306001-02	Prepared & Analyzed: 20-Jun-13						
Nitrate as N	**1.05**	**mg/L**	**1.00**	**0.018**	**103**	**70-130**			
Batch 1325091 - Conventionals No-Prep									
Blank (1325091-BLK1)			Prepared & Analyzed: 21-Jun-13						
Nitrite as N	0.010 U	mg/L							

CONVENTIONAL - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1325091 - Conventionals No-Prep									
Duplicate (1325091-DUP1)	**Source: T306001-01**		Prepared & Analyzed: 21-Jun-13						
Nitrite as N	**0.014**	**mg/L**		**0.014**			**0**	**35**	
Matrix Spike (1325091-MS1)	**Source: T306001-01**		Prepared & Analyzed: 21-Jun-13						
Nitrite as N	**1.09**	**mg/L**	**1.00**	**0.014**	**108**	**70-130**			
Reference (1325091-SRM1)			Prepared & Analyzed: 21-Jun-13						
Nitrite as N	**0.738**	**mg/L**	**0.779**		**95**	**90-110**			
Batch 1325093 - Conventionals No-Prep									
Blank (1325093-BLK1)			Prepared & Analyzed: 21-Jun-13						
Nitrate as N	0.010 U	mg/L							
LCS (1325093-BS1)			Prepared & Analyzed: 21-Jun-13						
Nitrate as N	**8.92**	**mg/L**	**8.96**		**100**	**80-120**			
Duplicate (1325093-DUP1)	**Source: T306001-01**		Prepared & Analyzed: 21-Jun-13						
Nitrate as N	**1.36**	**mg/L**		**1.39**			**2**	**35**	
Matrix Spike (1325093-MS1)	**Source: T306001-01**		Prepared & Analyzed: 21-Jun-13						
Nitrate as N	**2.38**	**mg/L**	**1.00**	**1.39**	**99**	**70-130**			
Batch 1325102 - Comb./IR									
Blank (1325102-BLK1)			Prepared & Analyzed: 21-Jun-13						
Total Organic Carbon	1.00 U	mg/L							

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

CONVENTIONAL - Quality Control

Environmental Services Laboratory

Sample ID Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1325102 - Comb./IR									
LCS (1325102-BS1)			Prepared & Analyzed: 21-Jun-13						
Total Organic Carbon	**20.2**	**mg/L**	**20.0**		**101**	**85-115**			
Matrix Spike (1325102-MS1)	**Source: T306001-01**		Prepared & Analyzed: 21-Jun-13						
Total Organic Carbon	**108**	**mg/L**	**100**	**9.26**	**99**	**80-120**			
Matrix Spike Dup (1325102-MSD1)	**Source: T306001-01**		Prepared & Analyzed: 21-Jun-13						
Total Organic Carbon	**109**	**mg/L**	**100**	**9.26**	**99**	**80-120**	**0.6**	**20**	
Batch 1326009 - Conventionals No-Prep									
Blank (1326009-BLK1)			Prepared & Analyzed: 24-Jun-13						
Sulfide	0.150 U	mg/L							
LCS (1326009-BS1)			Prepared & Analyzed: 24-Jun-13						
Sulfide	**1.58**	**mg/L**	**1.63**		**97**	**50-130**			
Duplicate (1326009-DUP1)	**Source: T306001-01**		Prepared & Analyzed: 24-Jun-13						
Sulfide	0.150 U	mg/L		ND				20	
Matrix Spike (1326009-MS1)	**Source: T306001-01**		Prepared & Analyzed: 24-Jun-13						
Sulfide	**0.916**	**mg/L**	**1.00**	**ND**	**92**	**50-130**			
Batch 1326039 - Conventionals No-Prep									
Blank (1326039-BLK1)			Prepared & Analyzed: 26-Jun-13						
Sulfate	5.0 U	mg/L							

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

CONVENTIONAL - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1326039 - Conventionals No-Prep									
LCS (1326039-BS1)			Prepared & Analyzed: 26-Jun-13						
Sulfate	**55.0**	**mg/L**	**55.8**		**99**	**70-130**			
Duplicate (1326039-DUP1)	**Source: T306001-01**		Prepared & Analyzed: 26-Jun-13						
Sulfate	**24.9**	**mg/L**		**24.9**			**0**	**20**	
Matrix Spike (1326039-MS1)	**Source: T306001-01**		Prepared & Analyzed: 26-Jun-13						
Sulfate	**45.5**	**mg/L**	**20.0**	**24.9**	**103**	**75-125**			
Batch 1326043 - Conventionals No-Prep									
Blank (1326043-BLK1)			Prepared & Analyzed: 26-Jun-13						
Chloride	1.00 U	mg/L							
LCS (1326043-BS1)			Prepared & Analyzed: 26-Jun-13						
Chloride	**17.0**	**mg/L**	**20.0**		**85**	**80-120**			
Duplicate (1326043-DUP1)	**Source: T306001-01**		Prepared & Analyzed: 26-Jun-13						
Chloride	**42.9**	**mg/L**		**43.1**			**0.5**	**30**	
Matrix Spike (1326043-MS1)	**Source: T306001-01**		Prepared & Analyzed: 26-Jun-13						
Chloride	**64.0**	**mg/L**	**20.0**	**43.1**	**105**	**75-125**			
Batch 1328020 - Comb./IR									
Blank (1328020-BLK1)			Prepared & Analyzed: 08-Jul-13						
Total Organic Carbon	1.00 U	mg/L							

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

CONVENTIONAL - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1328020 - Comb./IR									
LCS (1328020-BS1)			Prepared & Analyzed: 08-Jul-13						
Total Organic Carbon	**19.6**	**mg/L**	**20.0**		**98**	**85-115**			
Matrix Spike (1328020-MS1)	**Source: T306001-08**		Prepared & Analyzed: 08-Jul-13						
Total Organic Carbon	**59.2**	**mg/L**	**50.0**	**7.30**	**104**	**80-120**			
Matrix Spike Dup (1328020-MSD1)	**Source: T306001-08**		Prepared & Analyzed: 08-Jul-13						
Total Organic Carbon	**59.4**	**mg/L**	**50.0**	**7.30**	**104**	**80-120**	**0.3**	**20**	

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

RSK-175 - Quality Control

TestAmerica Nashville

Sample ID Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 89027 -									
MS (580-39029-10 MS)	**Source: T306001-10**		Prepared:	Analyzed: 26-Jun-13					
Acetylene	**0.425**	**mg/L**	**0.450**		**94**	**70-130**			
Ethane	**0.482**	**mg/L**	**0.513**	**ND**	**94**	**71-120**			
Ethylene	**0.440**	**mg/L**	**0.479**	**ND**	**92**	**71-120**			
Methane	**0.249**	**mg/L**	**0.273**	**0.0076**	**88**	**46-142**			
MSD (580-39029-10 MSD)	**Source: T306001-10**		Prepared:	Analyzed: 26-Jun-13					
Acetylene	**0.435**	**mg/L**	**0.450**		**97**	**70-130**	**2**	**30**	
Ethane	**0.521**	**mg/L**	**0.513**	**ND**	**102**	**71-120**	**8**	**30**	
Ethylene	**0.440**	**mg/L**	**0.479**	**ND**	**92**	**71-120**	**0**	**30**	
Methane	**0.271**	**mg/L**	**0.273**	**0.0076**	**96**	**46-142**	**8**	**30**	
LCS (LCS 490-89027/6)			Prepared:	Analyzed: 26-Jun-13					
Acetylene	**0.449**	**mg/L**	**0.450**		**100**	**80-120**			
Ethane	**0.509**	**mg/L**	**0.513**		**99**	**80-120**			
Ethylene	**0.469**	**mg/L**	**0.479**		**98**	**80-120**			
Methane	**0.259**	**mg/L**	**0.273**		**95**	**80-120**			
LCSD (LCSD 490-89027/7)			Prepared:	Analyzed: 26-Jun-13					
Acetylene	**0.433**	**mg/L**	**0.450**		**96**	**80-120**	**4**	**33**	
Ethane	**0.518**	**mg/L**	**0.513**		**101**	**80-120**	**2**	**30**	
Ethylene	**0.453**	**mg/L**	**0.479**		**95**	**80-120**	**3**	**29**	
Methane	**0.260**	**mg/L**	**0.273**		**95**	**80-120**	**0**	**33**	
MB (MB 490-89027/4)			Prepared:	Analyzed: 26-Jun-13					
Acetylene	0.0050 U	mg/L				-			
MB (MB 490-89027/5)			Prepared:	Analyzed: 26-Jun-13					
Surrogate: Acetylene (Surr)	*0.501*	mg/L	*0.450*		*111*	*62-124*			
Ethane	0.0050 U	mg/L				-			
Ethylene	0.0050 U	mg/L				-			
Methane	0.0050 U	mg/L				-			

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 15:11

LAI-MW1

T306001-01 (Water)

20-Jun-13 12:38

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-26.8**			mV		03-Jul-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 15:11

LAI-MW2

T306001-02 (Water)

19-Jun-13 14:40

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**32.7**			mV		03-Jul-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 15:11

LAI-MW3
T306001-03 (Water)
20-Jun-13 11:45

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-34.9**			mV		03-Jul-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 15:11

LAI-MW4
T306001-04 (Water)
20-Jun-13 10:40

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-62.4**			mV		03-Jul-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 15:11

LAI-MW5
T306001-05 (Water)
19-Jun-13 13:02

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-28.2**			mV		03-Jul-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 15:11

MW1-PP
T306001-06 (Water)
19-Jun-13 13:35

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-53.5**			mV		03-Jul-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 15:11

MW2-PP
T306001-07 (Water)
19-Jun-13 14:00

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**51.1**			mV		03-Jul-13	SM 2580 B

Center for Urban Waters - Environmental Services Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed By

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 15:11

MW13
T306001-08 (Water)
21-Jun-13 10:33

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**77.0**			mV		03-Jul-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 15:11

RNS-MW2
T306001-09 (Water)
20-Jun-13 15:40

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-21.1**			mV		03-Jul-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 15:11

RNS-MW6
T306001-10 (Water)
21-Jun-13 11:28

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**58.9**			mV		03-Jul-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 15:11

RNS-MW7
T306001-11 (Water)
20-Jun-13 16:37

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-17.7**			mV		03-Jul-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	16-Jul-13 16:20

Notes and Definitions

U	Analyte Not Detected at or above the associated value
UJ	Analyte Not Detected at or above the associated estimated value
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

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

COC Number

Lab Work Order Number T306001

Client Name: PW Science and Engineering	Project Name: Sauro Property MNA
Client Contact: Calvin Taylor	Project Number: CIP-00020-01-03
Address: 326 East D Street	Project Description: Sauro Property Monitoring Wells
City: Tacoma	PO Number: 61000055543
State/Zip: WA, 98421	Sampler Signatures: Bill Essmeier
Phone: (253) 593-7711 / Fax: (253) 502-2295	
Samplers: Bill Essmeier	

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. | Standard (days) | Expedited (days) | Due Date

Sample Name or Field ID #	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Sample #	RSK 175	353.2::EPA 353.2::SM 4500-Cl E::SM 4500-SO4 E	SM 5310 B TOC, (+H2SO4)	SM 4500-S2D Zn acetate	EPA 170.1::Field Measurement::HACH 8131::SM					Sample Comments
LAI-MW1	6-20-13	1238	G	W	4	-01	3	1	1	1					-01	
~~LAI-MW2~~			~~G~~	~~W~~	~~4~~	~~-02~~	~~3~~	~~1~~	~~1~~	~~1~~						
LAI-MW3	6-20-13	1145	G	W	4	-03	3	1	1	1					-03	
LAI-MW4	6-20-13	1040	G	W	4	-04	3	1	1	1					-04	
~~LAI-MW5~~			~~G~~	~~W~~	~~4~~	~~-05~~	~~3~~	~~1~~	~~1~~	~~1~~						
~~MW1-PP mna~~			~~G~~	~~W~~	~~4~~	~~-06~~	~~3~~	~~1~~	~~1~~	~~1~~						
~~MW2-PP mna~~			~~G~~	~~W~~	~~4~~	~~-07~~	~~3~~	~~1~~	~~1~~	~~1~~						
~~MW13 mna~~			~~G~~	~~W~~	~~4~~	~~-08~~	~~3~~	~~1~~	~~1~~	~~1~~						
RNS-MW2	6-20-13	1540	G	W	4	-09	3	1	1	1					-09	
~~RNS-MW6~~			~~G~~	~~W~~	~~4~~	~~-10~~	~~3~~	~~1~~	~~1~~	~~1~~						
RNS-MW7	6-20-13	1637	G	W	4	-11	3	1	1	1					-11	
~~mna-DUP~~			~~G~~	~~W~~	~~4~~	~~-12~~	~~3~~	~~1~~	~~1~~	~~1~~						

Relinquished By	Received By: Bill Essmeier	Date/Time: 6-20-13 1700
Relinquished By	Received By	Date/Time
Relinquished By	Received By	Date/Time
Cooler Numbers and Temperatures		

Comments

Matrix Codes: W=Water

Preserv. Codes:

6/24/13 1030

Login Reviewed By: LCW

Login Reviewed Date: 6-21-2013 1333

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

Page 2 of 4

COC Number

Lab Work Order Number T306001

Client Name: PW Science and Engineering	Project Name: Sauro Property MNA
Client Contact: Calvin Taylor	Project Number: CIP-00020-01-03
Address: 326 East D Street	Project Description: Sauro Property Monitoring Wells
City: Tacoma	PO Number: 61000055543
State/Zip: WA, 98421	Sampler Signatures: Bill Essmeier
Phone: (253) 593-7711 / Fax: (253) 502-2295	
Samplers: Bill Essmeier	

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days) / Expedited (days) / Due Date

Sample Name or Field ID #	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Sample #	RSK 175	353.2::EPA 353.2::SM 4500-Cl⁻ E::SM 4500-SO4 E	SM 5310 B TOC, (+H2SO4)	SM 4500-S2D Zn Acetate	EPA 170.1::Field Measurement::HACH 8131::SM					Sample Comments
~~LAI-MW1~~			G	W	4	-01	3	1	1	1						
LAI-MW2	6-19-13	1440	G	W	4	-02	3	1	1	1					-02	
~~LAI-MW3~~			G	W	4	-03	3	1	1	1						
~~LAI-MW4~~			G	W	4	-04	3	1	1	1						
LAI-MW5	6-19-13	1307	G	W	4	-05	3	1	1	1					-05	
MW1-PP ~~mna~~ BE	6-19-13	2335	G	W	4	-06	3	1	1	1					-06	
MW2-PP ~~mna~~ BE	6-19-13	1400	G	W	4	-07	3	1	1	1					-07	
~~MW15 mna~~			G	W	4	-08	3	1	1	1						
~~RN5-MW2~~			G	W	4	-09	3	1	1	1						
~~RN5-MW6~~			G	W	4	-10	3	1	1	1						
~~RN5-MW7~~			G	W	4	-11	3	1	1	1						
~~mna-DUP~~			G	W	4	-12	3	1	1	1						

Relinquished By	Received By: Bill Essmeier	Date/Time: 6-19-13 1530
Relinquished By	Received By	Date/Time
Relinquished By	Received By	Date/Time
Cooler Numbers and Temperatures		

Comments

Matrix Codes: W=Water

Preserv. Codes:

Login Reviewed By: LCW

Login Reviewed Date: 6-21-2013 1333

6/24/13 10:30

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

Page ~~1~~ 3 of ~~2~~ 4

COC Number
Lab Work Order Number T306001

Client Name: PW Science and Engineering	Project Name: Sauro Property MNA
Client Contact: Calvin Taylor	Project Number: CIP-00020-01-03
Address: 326 East D Street	Project Description: Sauro Property Monitoring Wells
City: Tacoma	PO Number: 61000055543
State/Zip: WA, 98421	Sampler Signatures: Bill Essmeier
Phone: (253) 593-7711 / Fax: (253) 502-2295	
Samplers: Bill Essmeier, Mark Bozlee	

Requested Analyses

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval.
Standard (days)
Expedited (days)
Due Date

Sample Name or Field ID #	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Sample #	RSK 175	353.2::EPA 353.2::SM 4500-Cl⁻E::SM 4500-SO4 E	SM 5310 B TOC, (+H2SO4)	SM 4500-S2D	EPA 170.1::Field Measurement::HACH 8131::SM					Sample Comments
MW13 ~~mna~~ BE	6-21-13	1033	G	W	4	-08	3	1	1	1					-08	
RNS-MW6	6-21-13	1128	G	W	4	-10	6	1	1	1					-10	
RNS-MW6-DUP	6-21-13	1130	G	W	4	-12	3	1	1	1					-12	

Relinquished By	Received By	Date/Time
	Bill Essmeier	6-21-13 1200

Cooler Numbers and Temperatures

Comments
6-21-13 Additional well water levels
RNS-MW3 = 10.30'
RNS-MW4 = 18.04'
RNS-MW5 = 23.41
MW3 = Dry

Matrix Codes: W=Water

Preserv. Codes:

6/24/13 10:30

Login Reviewed By: LCW

Login Reviewed Date: 6-21-2013 1333

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

COC Number
Lab Work Order Number T306001

Client Name: PW Science and Engineering		Project Name: Sauro Property MNA	
Client Contact: Calvin Taylor		Project Number: CIP-00020-01-03	
Address: 326 East D Street		Project Description: Sauro Property Monitoring Wells	
City: Tacoma		PO Number: 61000055543	
State/Zip: WA, 98421		Sampler Signatures: Bill Essmeier	
Phone: (253) 593-7711	Fax: (253) 502-2295		
Samplers: Bill Essmeier			

Requested Analyses: Sample #; RSK 175

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval. Standard (days); Expedited (days); Due Date

Sample Name or Field ID #	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	Sample #	RSK 175	Sample Comments
Trip Blank	6-19-13	1030	G	W	3	-13	3	-13

Relinquished By	Received By: Bill Essmeier	Date/Time: 6-21-13 1200
Relinquished By	Received By	Date/Time
Relinquished By	Received By	Date/Time
Cooler Numbers and Temperatures		

Comments

Matrix Codes: W=Water

Preserv. Codes:

6/24/13 10:30

Login Reviewed By: LCW

Login Reviewed Date: 6-21-2013 1333

September 2013 Monitored Natural Attenuation Data
Fourth Quarter Sampling
Lab Report T309098

City of Tacoma
Environmental Services Laboratory

08 October 2013

Calvin Taylor
PW Science and Engineering
326 East D Street
Tacoma, WA 98421

Subject: Sauro Property MNA

Enclosed are the analytical results for samples collected between 09/10/2013 and 09/12/2013.

The samples were sent to TestAmerica Seattle for analysis of methane, ethane, ethylene and acetylene (MEEA) by EPA method RSK-175. Their results are included.

Oxidation Reduction Potential results have to be printed from a different report format. They are added to the report as pages 4 of 16 thru 14 of 16.

If you have any questions concerning this report, call me at (253)502-2130. Please note that the samples associated with this report will be discarded 3 months from the date of this report unless we are notified otherwise.

Sincerely,

Stuart Magoon
Assistant Division Manager
Environmental Services Laboratory

cc.

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled
LAI-MW1	T309098-01	Water	11-Sep-13 15:40
LAI-MW2	T309098-02	Water	11-Sep-13 14:08
LAI-MW3	T309098-03	Water	11-Sep-13 14:55
LAI-MW4	T309098-04	Water	11-Sep-13 11:53
LAI-MW5	T309098-05	Water	11-Sep-13 12:35
MW1-PP	T309098-06	Water	12-Sep-13 11:30
MW2-PP	T309098-07	Water	12-Sep-13 11:40
MW13	T309098-08	Water	10-Sep-13 15:35
RNS-MW2	T309098-09	Water	10-Sep-13 14:10
RNS-MW6	T309098-10	Water	10-Sep-13 16:20
RNS-MW7	T309098-11	Water	10-Sep-13 14:48
MW13-DUP	T309098-12	Water	10-Sep-13 15:37
Trip Blank	T309098-13	Water	12-Sep-13 10:00
MW-JS2	T309098-14	Water	12-Sep-13 14:40
RNS-MW3 level	T309098-16	Water	12-Sep-13 12:00
RNS-MW4 level	T309098-17	Water	12-Sep-13 12:00
RNS-MW5 level	T309098-18	Water	12-Sep-13 12:00

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed By

CHAIN OF CUSTODY

The samples were received under appropriate Chain of Custody procedures.

SAMPLE RECEIPT, PRESERVATION AND STORAGE

Samples were properly preserved and stored in accordance with the applicable method requirements. There was insufficient water to perform any field analyses for sample T309098-06. There was insufficient water for Field analysis of Conductivity, Dissolved Oxygen, and Iron Ferrous Hach Field Kit for Sample T309098-07.

HOLDING TIMES

All analyses were performed within the required holding times, except for Nitrate in samples T309098-08, -09, -10, -11, and -12 and Nitrite samples T309098-04, -05, -08, -09, -10, -11, and -12. The values of the Nitrate and Nitrite samples that were past holding time were qualified (J) estimated.

METHODS

The samples were analyzed by the following method:

Standard Methods 4500-Cl-E for Chloride
Standard Methods 5310B for Total Organic Carbon
Standard Methods 4500-SO4 E for Total Sulfate
Standard Methods 4500-S2D for Sulfide
EPA Method 170.1 for Temperature
EPA Method 353.2 for Nitrate
EPA Method 353.2 for Nitrite
Field Specific Conductivity
Oxydation Reduction Potential
Iron, Ferrous Hach Field Kit
Dissolved Oxygen, Field
pH, Field
Turbidity, Field
Water Level

CONTRACT LABS

The samples were sent to TestAmerica Seattle for analysis of methane, ethane, ethylene and acetylene (MEEA) by EPA method RSK-175.

MINIMUM REPORTING LIMITS

All analytes are reported to the Practical Quantitation Limit (PQL) which is below or no greater than the Minimum Project Reporting Limit.

BLANKS

Sample T309098-13 was a Trip Blank for RSK-175. Blanks were analyzed at the required frequencies of the methods. There was a minimum of one Method Blank for each analytical method. Blank values were less than the Practical Quantitation Limits or sample concentrations were greater than 5 times the blank values.

LABORATORY CONTROL SAMPLES

Laboratory Control Samples were analyzed with these samples for all parameters. The recoveries for all associated LCS were within the laboratory limits.

DUPLICATE SAMPLE ANALYSIS

Duplicate analysis was performed with these samples. Relative percent differences were within the laboratory or project limits.

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSIS

Matrix Spike and Matrix Spike Duplicate analysis was performed with these samples. The recoveries were within the laboratory control limits.

FIELD DUPLICATES

Samples T309098-08 and T309098-12 (MW13) were submitted as field duplicates. The Compounds that were detected in the field duplicate pair are listed in the table below:

Analyte	Units	T309098-08 Result	T309098-12 (DUP) Result	RPD
Chloride	mg/L	10.2	10.2	0
Nitrate	mg/L	1.01	0.989	21
Nitrite	mg/L	0.019	0.011	53
Sulfate	mg/L	34.6	32.0	7.8
TOC	mg/L	8.79	11.8	29

The Field Duplicates are screened against a RPD of 75%. All comparisons met the screening criteria. No data is qualified.

DATA AVAILABILITY

All data associated with the samples referenced in this report are archived at the Environmental Services Laboratory and are available upon request.

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

LAI-MW1

T309098-01 (Water)

11-Sep-13 15:40

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**47.8**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	**1.40**	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.025**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**11.2**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**25.8**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
Conductivity	**545**	2.00	uS/cm	11-Sep-13	11-Sep-13	SM 2510 B
Dissolved oxygen	**1.20**	0.100	mg/L	11-Sep-13	11-Sep-13	SM 4500-O G
Fe(II)	0.030 U	0.030	mg/L	11-Sep-13	11-Sep-13	HACH 8131
pH	**6.27**	0.100	pH Units	11-Sep-13	11-Sep-13	SM 4500-H+ B
Temperature	**66.7**	0.00	°F	11-Sep-13	11-Sep-13	EPA 170.1
Turbidity	**27.2**	10.0	NTU	11-Sep-13	11-Sep-13	SM 2130 B
Water Level	**45.00**	0.00	Feet	11-Sep-13	11-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

LAI-MW2

T309098-02 (Water)

11-Sep-13 14:08

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**13.0**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	0.010 U	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.015**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**12.3**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**18.9**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
Conductivity	**506**	2.00	uS/cm	11-Sep-13	11-Sep-13	SM 2510 B
Dissolved oxygen	**2.90**	0.100	mg/L	11-Sep-13	11-Sep-13	SM 4500-O G
Fe(II)	0.030 U	0.030	mg/L	11-Sep-13	11-Sep-13	HACH 8131
pH	**7.08**	0.100	pH Units	11-Sep-13	11-Sep-13	SM 4500-H+ B
Temperature	**64.9**	0.00	°F	11-Sep-13	11-Sep-13	EPA 170.1
Turbidity	**41.5**	10.0	NTU	11-Sep-13	11-Sep-13	SM 2130 B
Water Level	**44.64**	0.00	Feet	11-Sep-13	11-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

LAI-MW3

T309098-03 (Water)

11-Sep-13 14:55

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**19.3**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	**0.655**	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.020**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**16.0**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**21.9**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
Conductivity	**590**	2.00	uS/cm	11-Sep-13	11-Sep-13	SM 2510 B
Dissolved oxygen	**3.00**	0.100	mg/L	11-Sep-13	11-Sep-13	SM 4500-O G
Fe(II)	0.030 U	0.030	mg/L	11-Sep-13	11-Sep-13	HACH 8131
pH	**6.87**	0.100	pH Units	11-Sep-13	11-Sep-13	SM 4500-H+ B
Temperature	**59.4**	0.00	°F	11-Sep-13	11-Sep-13	EPA 170.1
Turbidity	**44.3**	10.0	NTU	11-Sep-13	11-Sep-13	SM 2130 B
Water Level	**51.10**	0.00	Feet	11-Sep-13	11-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

LAI-MW4

T309098-04 (Water)

11-Sep-13 11:53

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**32.6**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	0.010 U	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.055 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**19.6**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**11.1**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
Conductivity	**717**	2.00	uS/cm	11-Sep-13	11-Sep-13	SM 2510 B
Dissolved oxygen	**2.60**	0.100	mg/L	11-Sep-13	11-Sep-13	SM 4500-O G
Fe(II)	**2.52**	0.120	mg/L	11-Sep-13	11-Sep-13	HACH 8131
pH	**6.70**	0.100	pH Units	11-Sep-13	11-Sep-13	SM 4500-H+ B
Temperature	**60.3**	0.00	°F	11-Sep-13	11-Sep-13	EPA 170.1
Turbidity	10.0 U	10.0	NTU	11-Sep-13	11-Sep-13	SM 2130 B
Water Level	**11.77**	0.00	Feet	11-Sep-13	11-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

LAI-MW5

T309098-05 (Water)

11-Sep-13 12:35

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**56.3**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	0.010 U	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.092 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**24.4**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**5.3**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
Conductivity	**682**	2.00	uS/cm	11-Sep-13	11-Sep-13	SM 2510 B
Dissolved oxygen	**1.00**	0.100	mg/L	11-Sep-13	11-Sep-13	SM 4500-O G
Fe(II)	**2.52**	0.120	mg/L	11-Sep-13	11-Sep-13	HACH 8131
pH	**6.53**	0.100	pH Units	11-Sep-13	11-Sep-13	SM 4500-H+ B
Temperature	**61.5**	0.00	°F	11-Sep-13	11-Sep-13	EPA 170.1
Turbidity	**354**	10.0	NTU	11-Sep-13	11-Sep-13	SM 2130 B
Water Level	**24.42**	0.00	Feet	11-Sep-13	11-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

MW1-PP
T309098-06 (Water)
12-Sep-13 11:30

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**64.3**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	0.010 U	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.124**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**13.4**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**39.7**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
Water Level	**17.67**	0.00	Feet	12-Sep-13	12-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

MW2-PP
T309098-07 (Water)
12-Sep-13 11:40

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**66.3**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	**1.63**	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.019**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**6.74**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**50.3**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
pH	**7.44**	0.100	pH Units	12-Sep-13	12-Sep-13	SM 4500-H+ B
Temperature	**63.9**	0.00	°F	12-Sep-13	12-Sep-13	EPA 170.1
Turbidity	10.0 U	10.0	NTU	12-Sep-13	12-Sep-13	SM 2130 B
Water Level	**16.00**	0.00	Feet	12-Sep-13	12-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

MW13
T309098-08 (Water)
10-Sep-13 15:35

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**10.2**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	**1.01 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.018 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**8.79**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**34.6**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
Conductivity	**586**	2.00	uS/cm	10-Sep-13	10-Sep-13	SM 2510 B
Dissolved oxygen	**1.28**	0.100	mg/L	10-Sep-13	10-Sep-13	SM 4500-O G
Fe(II)	**0.240**	0.120	mg/L	10-Sep-13	10-Sep-13	HACH 8131
pH	**6.84**	0.100	pH Units	10-Sep-13	10-Sep-13	SM 4500-H+ B
Temperature	**61.0**	0.00	°F	10-Sep-13	10-Sep-13	EPA 170.1
Turbidity	**1560**	40.0	NTU	10-Sep-13	10-Sep-13	SM 2130 B
Water Level	**39.67**	0.00	Feet	10-Sep-13	10-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

RNS-MW2

T309098-09 (Water)

10-Sep-13 14:10

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**18.5**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	**3.02 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.020 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**6.68**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**33.4**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
Conductivity	**421**	2.00	uS/cm	10-Sep-13	10-Sep-13	SM 2510 B
Dissolved oxygen	**6.04**	0.100	mg/L	10-Sep-13	10-Sep-13	SM 4500-O G
Fe(II)	**0.800**	0.120	mg/L	10-Sep-13	10-Sep-13	HACH 8131
pH	**6.41**	0.100	pH Units	10-Sep-13	10-Sep-13	SM 4500-H+ B
Temperature	**62.4**	0.00	°F	10-Sep-13	10-Sep-13	EPA 170.1
Turbidity	**1060**	40.0	NTU	10-Sep-13	10-Sep-13	SM 2130 B
Water Level	**17.24**	0.00	Feet	10-Sep-13	10-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

RNS-MW6

T309098-10 (Water)

10-Sep-13 16:20

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**21.0**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	**0.317 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.022 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**11.6**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**33.5**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
Conductivity	**690**	2.00	uS/cm	10-Sep-13	10-Sep-13	SM 2510 B
Dissolved oxygen	**3.72**	0.100	mg/L	10-Sep-13	10-Sep-13	SM 4500-O G
Fe(II)	**0.180**	0.090	mg/L	10-Sep-13	10-Sep-13	HACH 8131
pH	**6.82**	0.100	pH Units	10-Sep-13	10-Sep-13	SM 4500-H+ B
Temperature	**59.2**	0.00	°F	10-Sep-13	10-Sep-13	EPA 170.1
Turbidity	**756**	30.0	NTU	10-Sep-13	10-Sep-13	SM 2130 B
Water Level	**36.40**	0.00	Feet	10-Sep-13	10-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

RNS-MW7
T309098-11 (Water)
10-Sep-13 14:48

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**28.8**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	**0.608 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.012 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**6.06**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**41.3**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
Conductivity	**470**	2.00	uS/cm	10-Sep-13	10-Sep-13	SM 2510 B
Dissolved oxygen	**0.800**	0.100	mg/L	10-Sep-13	10-Sep-13	SM 4500-O G
Fe(II)	0.120 U	0.120	mg/L	10-Sep-13	10-Sep-13	HACH 8131
pH	**6.74**	0.100	pH Units	10-Sep-13	10-Sep-13	SM 4500-H+ B
Temperature	**59.4**	0.00	°F	10-Sep-13	10-Sep-13	EPA 170.1
Turbidity	**1090**	40.0	NTU	10-Sep-13	10-Sep-13	SM 2130 B
Water Level	**21.00**	0.00	Feet	10-Sep-13	10-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

MW13-DUP

T309098-12 (Water)

10-Sep-13 15:37

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**10.2**	1.00	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	**0.989 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.011 Ja**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**11.8**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**32.0**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

MW-JS2
T309098-14 (Water)
12-Sep-13 14:40

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
CONVENTIONAL						
Chloride	**219**	10.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-Cl⁻ E
Nitrate as N	0.010 U	0.010	mg/L	13-Sep-13	13-Sep-13	EPA 353.2
Nitrite as N	**0.028**	0.010	mg/L	13-Sep-13	13-Sep-13	353.2
Total Organic Carbon	**14.2**	1.00	mg/L	23-Sep-13	27-Sep-13	SM 5310 B
Sulfate	**15.6**	5.0	mg/L	19-Sep-13	19-Sep-13	SM 4500-SO4 E
Sulfide	0.150 U	0.150	mg/L	17-Sep-13	17-Sep-13	SM 4500-S2D
FIELD						
Conductivity	**1280**	2.00	uS/cm	12-Sep-13	12-Sep-13	SM 2510 B
Dissolved oxygen	**1.40**	0.100	mg/L	12-Sep-13	12-Sep-13	SM 4500-O G
Fe(II)	**1.90**	0.060	mg/L	12-Sep-13	12-Sep-13	HACH 8131
pH	**6.75**	0.100	pH Units	12-Sep-13	12-Sep-13	SM 4500-H+ B
Temperature	**56.7**	0.00	°F	12-Sep-13	12-Sep-13	EPA 170.1
Turbidity	**37.8**	20.0	NTU	12-Sep-13	12-Sep-13	SM 2130 B
Water Level	**6.90**	0.00	Feet	12-Sep-13	12-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

RNS-MW3 level
T309098-16 (Water)
12-Sep-13 12:00

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**10.95**	0.00	Feet	12-Sep-13	12-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

RNS-MW4 level
T309098-17 (Water)
12-Sep-13 12:00

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**17.95**	0.00	Feet	12-Sep-13	12-Sep-13	Field Measurement

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

RNS-MW5 level
T309098-18 (Water)
12-Sep-13 12:00

Analyte	Result	PQL	Units	Prepared	Analyzed	Method
FIELD						
Water Level	**23.82**	0.00	Feet	12-Sep-13	12-Sep-13	Field Measurement

LAI-MW1
T309098-01 (Water)
11-Sep-13 15:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*90 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

LAI-MW2

T309098-02 (Water)

11-Sep-13 14:08

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 UJ	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	**0.026**	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*90 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

Center for Urban Waters - Environmental Services Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed By

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

LAI-MW3

T309098-03 (Water)

11-Sep-13 14:55

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	0.0050 UJ	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*90 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

LAI-MW4

T309098-04 (Water)

11-Sep-13 11:53

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	**3.0**	0.10		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*85 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

LAI-MW5

T309098-05 (Water)

11-Sep-13 12:35

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	**11**	0.20		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*90 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: Sauro Property MNA	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

MW1-PP
T309098-06 (Water)
12-Sep-13 11:30

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	**0.25**	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*83 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

MW2-PP
T309098-07 (Water)
12-Sep-13 11:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	**0.26**	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*87 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

MW13
T309098-08 (Water)
10-Sep-13 15:35

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	**0.0066**	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*85 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

RNS-MW2
T309098-09 (Water)
10-Sep-13 14:10

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*90 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

RNS-MW6
T309098-10 (Water)
10-Sep-13 16:20

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	**0.0092**	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	**0.068**	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*86 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

RNS-MW7
T309098-11 (Water)
10-Sep-13 14:48

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*89 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

MW13-DUP
T309098-12 (Water)
10-Sep-13 15:37

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	**0.0064**	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*83 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

Trip Blank
T309098-13 (Water)
12-Sep-13 10:00

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*92 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

MW-JS2
T309098-14 (Water)
12-Sep-13 14:40

Analyte	Result	PQL		Units	Prepared	Analyzed	Method
RSK-175							
Acetylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethane	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Ethylene	0.0050 U	0.0050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Methane	**0.97**	0.050		mg/L		24-Sep-13	RSK_175 Dissolved Gases (GC)
Surrogate: Acetylene (Surr)		*83 %*	*62-124*			*24-Sep-13*	*RSK_175 Dissolved Gases (GC)*

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

CONVENTIONAL - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1337084 - Conventionals No-Prep									
Duplicate (1337084-DUP1)	**Source: T309098-01**		Prepared & Analyzed: 13-Sep-13						
Nitrate as N	**1.40**	**mg/L**		**1.40**			**0.04**	**35**	
Matrix Spike (1337084-MS1)	**Source: T309098-01**		Prepared & Analyzed: 13-Sep-13						
Nitrate as N	**2.40**	**mg/L**	**1.00**	**1.40**	**100**	**70-130**			
Batch 1337086 - Conventionals No-Prep									
Blank (1337086-BLK1)			Prepared & Analyzed: 13-Sep-13						
Nitrite as N	0.010 U	mg/L							
Duplicate (1337086-DUP1)	**Source: T309098-01**		Prepared & Analyzed: 13-Sep-13						
Nitrite as N	**0.024**	**mg/L**		**0.025**			**2**	**35**	
Matrix Spike (1337086-MS1)	**Source: T309098-01**		Prepared & Analyzed: 13-Sep-13						
Nitrite as N	**1.09**	**mg/L**	**1.00**	**0.025**	**107**	**70-130**			
Reference (1337086-SRM1)			Prepared & Analyzed: 13-Sep-13						
Nitrite as N	**0.837**	**mg/L**	**0.779**		**107**	**90-110**			
Batch 1338026 - Conventionals No-Prep									
Blank (1338026-BLK1)			Prepared & Analyzed: 17-Sep-13						
Sulfide	0.150 U	mg/L							
LCS (1338026-BS1)			Prepared & Analyzed: 17-Sep-13						
Sulfide	**1.44**	**mg/L**	**1.63**		**89**	**50-130**			

CONVENTIONAL - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1338026 - Conventionals No-Prep									
Duplicate (1338026-DUP1)	**Source: T309098-01**		Prepared & Analyzed: 17-Sep-13						
Sulfide	0.150 U	mg/L		ND				20	
Matrix Spike (1338026-MS1)	**Source: T309098-01**		Prepared & Analyzed: 17-Sep-13						
Sulfide	**0.687**	**mg/L**	**1.00**	**ND**	**69**	**50-130**			
Batch 1338045 - Conventionals No-Prep									
Blank (1338045-BLK1)			Prepared & Analyzed: 19-Sep-13						
Sulfate	5.0 U	mg/L							
LCS (1338045-BS1)			Prepared & Analyzed: 19-Sep-13						
Sulfate	**54.9**	**mg/L**	**55.8**		**98**	**70-130**			
Duplicate (1338045-DUP1)	**Source: T309098-01**		Prepared & Analyzed: 19-Sep-13						
Sulfate	**25.7**	**mg/L**		**25.8**			**0.4**	**20**	
Matrix Spike (1338045-MS1)	**Source: T309098-01**		Prepared & Analyzed: 19-Sep-13						
Sulfate	**46.1**	**mg/L**	**20.0**	**25.8**	**102**	**75-125**			
Batch 1338059 - Conventionals No-Prep									
Blank (1338059-BLK1)			Prepared & Analyzed: 19-Sep-13						
Chloride	1.00 U	mg/L							
LCS (1338059-BS1)			Prepared & Analyzed: 19-Sep-13						
Chloride	**17.4**	**mg/L**	**17.8**		**98**	**80-120**			

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

CONVENTIONAL - Quality Control

Environmental Services Laboratory

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1338059 - Conventionals No-Prep									
Duplicate (1338059-DUP1)	**Source: T309098-01**		Prepared & Analyzed: 19-Sep-13						
Chloride	**45.3**	**mg/L**		**47.8**			**5**	**30**	
Matrix Spike (1338059-MS1)	**Source: T309098-01**		Prepared & Analyzed: 19-Sep-13						
Chloride	**65.0**	**mg/L**	**20.0**	**47.8**	**86**	**75-125**			
Batch 1339017 - Comb./IR									
Blank (1339017-BLK1)			Prepared: 23-Sep-13 Analyzed: 27-Sep-13						
Total Organic Carbon	1.00 U	mg/L							
LCS (1339017-BS1)			Prepared: 23-Sep-13 Analyzed: 27-Sep-13						
Total Organic Carbon	**20.6**	**mg/L**	**20.0**		**103**	**85-115**			
Matrix Spike (1339017-MS1)	**Source: T309098-01**		Prepared: 23-Sep-13 Analyzed: 27-Sep-13						
Total Organic Carbon	**57.2**	**mg/L**	**50.0**	**11.2**	**92**	**80-120**			
Matrix Spike (1339017-MS2)	**Source: T309098-10**		Prepared: 23-Sep-13 Analyzed: 27-Sep-13						
Total Organic Carbon	**58.0**	**mg/L**	**50.0**	**11.6**	**93**	**80-120**			
Matrix Spike Dup (1339017-MSD1)	**Source: T309098-01**		Prepared: 23-Sep-13 Analyzed: 27-Sep-13						
Total Organic Carbon	**53.2**	**mg/L**	**50.0**	**11.2**	**84**	**80-120**	**7**	**20**	

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

RSK-175 - Quality Control

TestAmerica Nashville

Sample ID / Analyte	Result	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 109396 -									
MS (580-40293-1 MS)	Source: T309098-01		Prepared:	Analyzed: 24-Sep-13					
Acetylene	**0.451**	**mg/L**	**0.450**		**100**	**70-130**			
Ethane	**0.0998**	**mg/L**	**0.103**	**ND**	**97**	**71-120**			
Ethylene	**0.0982**	**mg/L**	**0.0958**	**ND**	**102**	**71-120**			
Methane	**0.0590**	**mg/L**	**0.0547**	**ND**	**108**	**46-142**			
MSD (580-40293-1 MSD)	Source: T309098-01		Prepared:	Analyzed: 24-Sep-13					
Acetylene	**0.431**	**mg/L**	**0.450**		**96**	**70-130**	**4**	**30**	
Ethane	**0.0983**	**mg/L**	**0.103**	**ND**	**96**	**71-120**	**2**	**30**	
Ethylene	**0.0981**	**mg/L**	**0.0958**	**ND**	**102**	**71-120**	**0**	**30**	
Methane	**0.0585**	**mg/L**	**0.0547**	**ND**	**107**	**46-142**	**1**	**30**	
LCS (LCS 490-109396/15)			Prepared:	Analyzed: 24-Sep-13					
Acetylene	**0.460**	**mg/L**	**0.450**		**102**	**80-120**			
Ethane	**0.104**	**mg/L**	**0.103**		**102**	**80-120**			
Ethylene	**0.101**	**mg/L**	**0.0958**		**106**	**80-120**			
Methane	**0.0573**	**mg/L**	**0.0547**		**105**	**80-120**			
LCSD (LCSD 490-109396/14)			Prepared:	Analyzed: 24-Sep-13					
Acetylene	**0.441**	**mg/L**	**0.450**		**98**	**80-120**	**4**	**33**	
Ethane	**0.104**	**mg/L**	**0.103**		**101**	**80-120**	**0**	**30**	
Ethylene	**0.103**	**mg/L**	**0.0958**		**107**	**80-120**	**1**	**29**	
Methane	**0.0575**	**mg/L**	**0.0547**		**105**	**80-120**	**0**	**33**	
MB (MB 490-109396/13)			Prepared:	Analyzed: 24-Sep-13					
Acetylene	0.0050 U	mg/L				-			
Surrogate: Acetylene (Surr)	*0.000*	mg/L				-			
MB (MB 490-109396/36)			Prepared:	Analyzed: 24-Sep-13					
Surrogate: Acetylene (Surr)	*0.437*	mg/L	*0.450*		*97*	*62-124*			
Ethane	0.0050 U	mg/L				-			
Ethylene	0.0050 U	mg/L				-			
Methane	0.0050 U	mg/L				-			

Center for Urban Waters - Environmental Services Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Reviewed By

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:49

LAI-MW1

T309098-01 (Water)

11-Sep-13 15:40

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-31.8**			mV	11-Sep-13	11-Sep-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:49

LAI-MW2

T309098-02 (Water)

11-Sep-13 14:08

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-44.8**			mV	11-Sep-13	11-Sep-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:49

LAI-MW3

T309098-03 (Water)

11-Sep-13 14:55

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-29.0**			mV	11-Sep-13	11-Sep-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:49

LAI-MW4

T309098-04 (Water)

11-Sep-13 11:53

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-82.6**			mV	11-Sep-13	11-Sep-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:49

LAI-MW5

T309098-05 (Water)

11-Sep-13 12:35

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-69.8**			mV	11-Sep-13	11-Sep-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:49

MW2-PP
T309098-07 (Water)
12-Sep-13 11:40

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-113**			mV	12-Sep-13	12-Sep-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:49

MW13

T309098-08 (Water)

10-Sep-13 15:35

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**48.5**			mV	10-Sep-13	10-Sep-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:49

RNS-MW2
T309098-09 (Water)
10-Sep-13 14:10

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**66.5**			mV	10-Sep-13	10-Sep-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:49

RNS-MW6
T309098-10 (Water)
10-Sep-13 16:20

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**55.8**			mV	10-Sep-13	10-Sep-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:49

RNS-MW7
T309098-11 (Water)
10-Sep-13 14:48

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**64.3**			mV	10-Sep-13	10-Sep-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:49

MW-JS2
T309098-14 (Water)
12-Sep-13 14:40

Analyte	Result	PQL	MDL	Units	Prepared	Analyzed	Method
FIELD							
Oxidation/Reduction Potential	**-65.3**			mV	12-Sep-13	12-Sep-13	SM 2580 B

PW Science and Engineering	Project: **Sauro Property MNA**	
326 East D Street	Project Number: CIP-00020-01-03	**Reported:**
Tacoma WA, 98421	Project Manager: Calvin Taylor	08-Oct-13 10:46

Notes and Definitions

Ja	The result is an estimated concentration.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Analyte Not Detected at or above the associated value
UJ	Analyte Not Detected at or above the associated estimated value
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

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

Lab Work Order Number T309098

Client Name	Project Name
PW Science and Engineering	Sauro Property MNA
Client Contact	Project Number
Calvin Taylor	CIP-00020-01-03
Address	Project Description
326 East D Street	Sauro Property Monitoring Wells
City	PO Number
Tacoma	61000055543
State/Zip	Sampler Signatures
WA, 98421	Bill Essmeier Nancy Boyle
Phone: (253) 593-7711 / Fax: (253) 502-2295	
Samplers: Bill Essmeier	

Requested Analyses

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval.

Standard (days)

Expedited (days)

Due Date

Sample Name or Field ID	#	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	RSK-175	E::SM 4500-SO4 E	353.2::EPA 353.2::SM 4500-Cl"	Measurement::HACH 8131::SM	EPA 170.1::Field	SM 5310 B	SM 4500-S2D					Sample Comments
MW1-PP	-06	9/12/2013	11:30	G	W	6	3	1	0		1	1						
MW2-PP	-07	9/12/2013	11:40	G	W	6	3	1	0		1	1						
MW-JS	-14	9/12/2013	14:40	G	W	6	3	1	0		1	1						

Relinquished By	Received By	Date/Time
	Bill Essmeier	9-12-2013 13:40
Relinquished By	Received By	Date/Time
Relinquished By	Received By	Date/Time
Cooler Numbers and Temperatures		

Comments: Extra Well water depths 9-12-13 12:00
MW-3 = Dry.
RNS-MW3 = 10.95'
RNS-MW4 = 17.95'
RNS-MW5 = 23.82'

Matrix Codes: W=Water

Preserv. Codes:

Login Reviewed By: _____

Login Reviewed Date: 9/12/13

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

Lab Work Order Number T309098

Client Name	Project Name
PW Science and Engineering	Sauro Property MNA
Client Contact	**Project Number**
Calvin Taylor	CIP-00020-01-03
Address	**Project Description**
326 East D Street	Sauro Property Monitoring Wells
City	**PO Number**
Tacoma	61000055543
State/Zip	**Sampler Signatures**
WA, 98421	Bill Essmeier, Nancy Bryle
Phone / **Fax**	
(253) 593-7711 / (253) 502-2295	
Samplers	
Bill Essmeier	

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval.

Standard (days)

Expedited (days)

Due Date

Sample Name or Field ID	#	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	RSK-175	E::SM 4500-SO4 E	353.2::EPA 353.2::SM 4500-Cl⁻	Measurement::HACH 8131::SM EPA 170.1::Field	SM 5310 B	SM 4500-S2D						Sample Comments
LAI-MW1	-01			G	W	6	3	1	0		1	1						
LAI-MW2	-02			G	W	6	3	1	0		1	1						
LAI-MW3	-03			G	W	6	3	1	0		1	1						
LAI-MW4	-04			G	W	6	3	1	0		1	1						
LAI-MW5	-05			G	W	6	3	1	0		1	1						
MW1-PP	-06			G	W	6	3	1	0		1	1						
MW2-PP	-07			G	W	6	3	1	0		1	1						
MW13	-08	9-10-13	15 35	G	W	9	6	1	0		1	1						
RNS-MW2	-09	"	14 10	G	W	6	6	1	0		1	1						
RNS-MW6	-10	"	16 20	G	W	6	3	1	0		1	1						
RNS-MW7	-11	"	14 48	G	W	6	3	1	0		1	1						
MW13-DUP	-12	"	15 37	G	W	6	3	1	0		1	1						

Relinquished By	Received By	Date/Time
	Bill Essmeier	9-10-13 1650
Relinquished By	Received By	Date/Time
Relinquished By	Received By	Date/Time

Cooler Numbers and Temperatures

Comments

Matrix Codes: W=Water

Preserv. Codes:

Login Reviewed By: _____

Login Reviewed Date: 9/11/13

CHAIN OF CUSTODY

City of Tacoma Environmental Services
326 East D Street
Tacoma
WA, 98421-1801
phone (253) 502-2130
fax (253) 502-2170

Lab Work Order Number T309098

Client Name	Project Name
PW Science and Engineering	Sauro Property MNA
Client Contact	Project Number
Calvin Taylor	CIP-00020-01-03
Address	Project Description
326 East D Street	Sauro Property Monitoring Wells
City	PO Number
Tacoma	61000055543
State/Zip	Sampler Signatures
WA, 98421	Bill Essmeier
Phone / Fax	
(253) 593-7711 / (253) 502-2295	
Samplers	
Bill Essmeier	

Requested Turn Around: Rush requests subject to additional charge. Rush requests subject to lab approval.

Standard (days)

Expedited (days)

Due Date

Sample Name or Field ID	#	Sampled Date	Sampled Time	Sample Type Code	Matrix Code	Container Count	RSK-175	E::SM 4500-SO4 E	353.2::EPA 353.2::SM 4500-Cl⁻	Measurement::HACH 8131::SM	EPA 170.1::Field	SM 5310 B	SM 4500-S2D						Sample Comments
LAI-MW1	-01	9-11-13	15:40	G	W	6	3	1	0		1		1						
LAI-MW2	-02		14:08	G	W	6	3	1	0		1		1						
LAI-MW3	-03		14:55	G	W	6	3	1	0		1		1						
LAI-MW4	-04		11:53	G	W	6	3	1	0		1		1						
LAI-MW5	-05		12:35	G	W	6	3	1	0		1		1						
MW1-PP	-06			G	W	6	3	1	0		1		1						
MW2-PP	-07			G	W	6	3	1	0		1		1						
MW13	-08			G	W	9	6	1	0		1		1						
RNS-MW2	-09			G	W	6	6	1	0		1		1						
RNS-MW6	-10			G	W	6	3	1	0		1		1						
RNS-MW7	-11			G	W	6	3	1	0		1		1						
MW13-DUP	-12			G	W	6	3	1	0		1		1						

Relinquished By	Received By	Date/Time
	Bill Essmeier	9-11-13 at 1600
Relinquished By	Received By	Date/Time
Relinquished By	Received By	Date/Time

Cooler Numbers and Temperatures

Comments

Matrix Codes: W=Water

Preserv. Codes:

Login Reviewed By: _____

Login Reviewed Date: 9/12/13

Analyical Services Request
CHAIN OF CUSTODY

SENDING LABORATORY:	RECEIVING LABORATORY:
Environmental Services Laboratory	TestAmerica Seattle
326 East D Street	5755 8th Street East
Tacoma, WA 98421	Tacoma, WA 98424
Phone: 2535915588	Phone :(253) 922-2310
Fax: 2535022107	Fax: (253) 922-5047
City Contact: Gregory Perez	

Environmental Services Work Order Number: T309098

Analysis			Due	Hold Time Expires	Comments
Sample ID: T309098-01	**Water**	**Sampled:11-Sep-13 15:40**			All samples are preserved with HCL. Bill E
TA_Seattle_RSK175			03-Oct-13 12:00	25-Sep-13 15:40	
Containers Supplied:					
Sample ID: T309098-02	**Water**	**Sampled:11-Sep-13 14:08**			
TA_Seattle_RSK175			03-Oct-13 12:00	25-Sep-13 14:08	
Containers Supplied:					
Sample ID: T309098-03	**Water**	**Sampled:11-Sep-13 14:55**			
TA_Seattle_RSK175			03-Oct-13 12:00	25-Sep-13 14:55	
Containers Supplied:					

Please provide in the data package all associated QC including initial and continuing calibrations. Perform batch quality control (matix spike, duplicate or matrix spike duplicate) on one sample provided per 20 if there is enough sample. Send your standard Excel file that includes the sample and batch QC data to lzborals@cityoftacoma.org. If your laboratory uses Promium's Element LIMS system, please call the City Contact listed above.

Released By	Date	Received By
Bill Essmeier	9/13/2013 8:40	Cathy Crabble 9/13/13 8:40
Released By	Date	Received By

Analyical Services Request
CHAIN OF CUSTODY

Analysis			Due	Hold Time Expires	Comments
Sample ID: T309098-04	**Water**	**Sampled:11-Sep-13 11:53**			
TA_Seattle_RSK175			03-Oct-13 12:00	25-Sep-13 11:53	
Containers Supplied:					
Sample ID: T309098-05	**Water**	**Sampled:11-Sep-13 12:35**			
TA_Seattle_RSK175			03-Oct-13 12:00	25-Sep-13 12:35	
Containers Supplied:					
Sample ID: T309098-06	**Water**	**Sampled:12-Sep-13 11:30**			
TA_Seattle_RSK175			03-Oct-13 12:00	26-Sep-13 11:30	
Containers Supplied:					
Sample ID: T309098-07	**Water**	**Sampled:12-Sep-13 11:40**			
TA_Seattle_RSK175			03-Oct-13 12:00	26-Sep-13 11:40	
Containers Supplied:					
Sample ID: T309098-08	**Water**	**Sampled:10-Sep-13 15:35**			
TA_Seattle_RSK175			03-Oct-13 12:00	24-Sep-13 15:35	
Containers Supplied:					

Please provide in the data package all associated QC including initial and continuing calibrations. Perform batch quality control (matix spike, duplicate or matrix spike duplicate) on one sample provided per 20 if there is enough sample. Send your standard Excel file that includes the sample and batch QC data to lzborals@cityoftacoma.org. If your laboratory uses Promium's Element LIMS system, please call the City Contact listed above.

Released By	Date	Received By
Released By	Date	Received By

Analyical Services Request
CHAIN OF CUSTODY

Analysis			Due	Hold Time Expires	Comments
Sample ID: T309098-09	**Water**	**Sampled:10-Sep-13 14:10**			
TA_Seattle_RSK175			03-Oct-13 12:00	24-Sep-13 14:10	
Containers Supplied:					
Sample ID: T309098-10	**Water**	**Sampled:10-Sep-13 16:20**			
TA_Seattle_RSK175			03-Oct-13 12:00	24-Sep-13 16:20	
Containers Supplied:					
Sample ID: T309098-11	**Water**	**Sampled:10-Sep-13 14:48**			
TA_Seattle_RSK175			03-Oct-13 12:00	24-Sep-13 14:48	
Containers Supplied:					
Sample ID: T309098-12	**Water**	**Sampled:10-Sep-13 15:37**			
TA_Seattle_RSK175			03-Oct-13 12:00	24-Sep-13 15:37	
Containers Supplied:					
Sample ID: T309098-13	**Water**	**Sampled:12-Sep-13 10:00**			
TA_Seattle_RSK175			03-Oct-13 12:00	26-Sep-13 10:00	
Containers Supplied:					

Please provide in the data package all associated QC including initial and continuing calibrations. Perform batch quality control (matix spike, duplicate or matrix spike duplicate) on one sample provided per 20 if there is enough sample. Send your standard Excel file that includes the sample and batch QC data to lzborals@cityoftacoma.org. If your laboratory uses Promium's Element LIMS system, please call the City Contact listed above.

Released By	Date	Received By
Released By	Date	Received By

Analyical Services Request
CHAIN OF CUSTODY

Analysis			Due	Hold Time Expires	Comments
Sample ID: T309098-14	**Water**	**Sampled:12-Sep-13 14:40**			**JS means Johnnys Seafood.**
TA_Seattle_RSK175			03-Oct-13 12:00	26-Sep-13 14:40	
Containers Supplied:					

Please provide in the data package all associated QC including initial and continuing calibrations. Perform batch quality control (matix spike, duplicate or matrix spike duplicate) on one sample provided per 20 if there is enough sample. Send your standard Excel file that includes the sample and batch QC data to lzborals@cityoftacoma.org. If your laboratory uses Promium's Element LIMS system, please call the City Contact listed above.

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