

Prepared for

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GROUNDWATER MONITORING REPORT

THIRD QUARTER 2009

2701 North Harbor Drive
San Diego, California



Prepared by

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5 October 2009

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1. INTRODUCTION

This Groundwater Monitoring Report (Report) has been prepared by Geosyntec Consultants (Geosyntec) on behalf of TDY Industries, Inc. for the Airport/Former Teledyne Ryan Aeronautical site located at 2701 North Harbor Drive in San Diego, California (Site). This Report summarizes the results of the third quarter 2009 groundwater sampling that was performed at the Site in accordance with the Groundwater Monitoring and Reporting Plan (MRP) dated 6 November 2006 (Geosyntec, 2006), and modifications thereto, as recommended in the third quarter 2008 monitoring report (Geosyntec, 2008c) and the Regional Water Quality Control Board (RWQCB, 2009). This Report also summarizes monitoring results from the ongoing enhanced in-situ bioremediation (EISB) programs. This Report was prepared by Mr. Chris Lieder, PG and reviewed by Mr. Brian Hitchens, PG, CHG of Geosyntec in accordance with the peer review policy of the firm.

1.1 Background

A baseline assessment of Site conditions and groundwater quality is summarized in the Site Characterization Report (Geosyntec, 2005). The Remedial Action Plan (RAP) requirements specified in Cleanup and Abatement Order R9-2004-0258 (RWQCB, 2005a) contain a provision for the development and implementation of a MRP to demonstrate the effectiveness of the selected remedial action. The RWQCB requested the initiation of groundwater monitoring in advance of the RAP to monitor temporal variation in groundwater quality and to monitor potential impacts to San Diego Bay with a series of “sentry-wells”.

Groundwater samples were collected from 25 monitor wells during the third quarter 2009 semi-annual sampling event (Table 2, Figure 2). An additional 5 wells were sampled as a part of the ongoing EISB implementation in the Building 166AST/120/121, Building 180, and Former Maintenance Yard areas.

Monitor well B102-MW4 is located downgradient of the former Building 102 diesel UST. It is used to monitor potential impacts related to the Building 102 AOC. Monitor wells B120-MW1, -MW2, -MW3, and -MW6 monitor groundwater quality in the Building 166AST/120/121 AOC. Monitor wells B120-MW4 and B120-MW5 are located downgradient of the Building 166AST/120/121 AOC.

In accordance with the MRP, Geosyntec installed three pairs of wells, MWCL-1 through MWCL-6, along the perimeter of Convair Lagoon in August 2006. After the

third quarter 2006 sampling event, the RWQCB requested the installation of two additional monitor wells, MWCL-7 and MWCL-8, along the perimeter of Convair Lagoon. Monitor well MWCL-7 was installed adjacent to monitor wells MWCL-5 and MWCL-6 to provide additional vertical delineation of volatile organic compounds (VOC) detected during the initial sampling event in the third quarter of 2006. Monitor Well MWCL-8 was installed approximately 1.5 feet to the east of the 60-inch SWCS storm drain pipe using a 1-inch PVC casing with pre-packed well screen to evaluate the potential for the 60-inch storm drain to serve as a preferential pathway for constituent transport. Due to elevated turbidity levels observed and the potential for improved long term monitoring, MWCL-8 was abandoned and replaced with a 2-inch PVC casing well (MWCL-8R) constructed with traditional filter pack over an identical screen interval.

On 24 and 25 March 2008, monitor wells TC4-WNC Deep, TC4-WNC, and TC4-WSC were abandoned during remedial activities to remove LNAPL and petroleum hydrocarbon impacted soil from Area D. LNAPL observed within the excavation was removed over three days of skimming with a vacuum truck. The excavation was then backfilled with clean fill. Monitor well, Area D-MW1, was installed in the center of the excavation for post remediation monitoring purposes (Figure 2). This well was added to the routine sampling schedule and is analyzed for volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). Due to poor well condition, downgradient monitor well TC4-EGP was abandoned and a new monitor well (Area D-MW2) was installed in its place. Area D-MW2 was added to the routine MRP during this sampling event and was sampled for VOCs, TPH, and 1,4-dioxane.

Monitor well B158-MW1 is located in the center of Building 158 to monitor chromium impacts associated with the Building 158 AOC. To monitor downgradient groundwater conditions in the vicinity of Building 158, a newly constructed monitor well (B158-MW2) was installed. Both monitor wells were sampled for total chromium and hexavalent chromium.

Monitor wells within the Building 131/242 pilot study area were added to the semiannual monitoring program at the conclusion of the EISB pilot study. Monitor wells B131-MW2, -MW3, -MW5, and -MW6 evaluate the shallow groundwater quality within the area targeted by the 131/242 EISB pilot study. Monitor well B131-MW4 is installed downgradient of the EISB pilot area.

As remediation activities are performed, wells or constituents may be recommended for addition or removal from the routine monitoring network, as site conditions dictate. Groundwater monitoring of ongoing EISB areas (Building 166AST/120/121, Former

Maintenance Yard, Building 180 AOCs) is being conducted separately, under individual remedial action monitoring plans. However, analytical results from monitor wells B120-MW7, B120-MW8, B120-MW9, FMY-MW1, and B180-MW2 which monitor ongoing performance of the EISB are summarized within this report.

1.2 Objective

The objective of this Report is to present the results of the third quarter 2009 groundwater monitoring event, and to provide conclusions and recommendations for the ongoing monitoring program based on the results presented herein. This report also summarizes the ongoing EISB program at the Site.

1.3 Hydrologic Setting

The Site is located within the coastal plain section of San Diego Drainage Province, approximately 250 feet north of Convair Lagoon and the San Diego Bay. The San Diego Basin Plan (RWQCB, 2006) identifies the Site location as a portion of the Lindbergh Hydrologic Sub Area (8.21) of the San Diego Mesa Hydrologic Area within the Pueblo San Diego Hydrologic Unit. Groundwater in the Lindbergh Hydrologic Sub Area is designated as non-beneficial use and has been exempted from municipal drinking water designation by the RWQCB. Groundwater at the Site occurs at approximately 5 to 8 feet bgs. Groundwater elevations fluctuate slightly diurnally with tidal variations in the San Diego Bay.

1.4 Modifications to the MRP

The following modifications were made to the MRP during the 3rd quarter 2009 monitoring event and were approved by the RWQCB (RWQCB, 2009):

- Monitor well Area D-MW2 was added to the MRP and was sampled for VOCs, TPH, and 1,4-dioxane;
- Monitor well B158-MW2 was added to the MRP and was sampled for total chromium and hexavalent chromium;
- Monitor wells B131-MW2D and B131-MW3D were removed from the MRP;
- 1,4-Dioxane was removed from the sampling protocol for AreaD-MW1 and B102-MW4; and

- TPH was removed from the sampling protocol for B131-MW4.

Recommendations for modifications to the 1st quarter 2010 monitoring event are presented in Section 3 and Table 2.

2. GROUNDWATER MONITORING RESULTS

This section presents the groundwater monitoring results from the third quarter 2009 sampling event. Prior to sampling, groundwater levels were measured in 38 monitor wells at the Site on 20 July 2009 (Table 3, Figure 2). Groundwater samples were collected on 20 - 23 July 2009 in accordance with the recommendations from the First Quarter 2009 Monitoring Report (Geosyntec, 2009) and in subsequent comments from the RWQCB on 5 January 2009. All monitor wells were sampled using low flow purging and sampling methods in accordance with the MRP with the exception of MWCL-5 which was sampled using slow recharge sampling methodology as described in the Site Assessment and Mitigation Manual (DEH, 2004). Groundwater sample collection logs are provided in Appendix B.

2.1 Groundwater Elevations and Flow Direction

There are 38 wells at the Site that have surveyed top of casing elevations and are gauged on a semiannual basis (Table 1, Figure 2). Before sampling activities take place, groundwater gauging is performed by two teams within approximately 3 hours during a period of high tide. Groundwater elevations at the Site ranged from a low of 1.15 feet above mean sea level (ft MSL) in monitor well MWCL-6 located in the west portion of Convair Lagoon vicinity, to a high of 3.02 ft MSL in monitor well B120-MW9 located in the north-east portion of the Site.

In the western portion of the Site the groundwater generally flows in a southerly direction with a hydraulic gradient of 0.0023 ft/ft. In the central portion of the Site the groundwater flows in a south southwesterly direction with a gradient of 0.002 ft/ft. In the eastern portion of the Site, groundwater flows to the east and southeast with a gradient of 0.0016 ft/ft to 0.0028 ft/ft. The groundwater flow gradient slightly increases in the vicinity of Convair Lagoon (Figure 2).

Downward vertical gradients were observed between shallow and deep well pairs B131-MW2 and -MW2D (0.81 ft) and B131-MW3 and -MW3D (0.8 ft). An upward vertical gradient was observed between shallow and deep well pairs MWCL-6 and -7 (0.32 ft). Although well pressurization has interfered with well gauging in several slow-recharge wells, a downward gradient is typically observed between shallow and intermediate wells adjacent to Convair Lagoon.

An interface probe was used to test for immiscible layers in monitor wells at the Site. No detections of non-aqueous phase liquids (NAPL) were observed during this monitoring event.

2.2 Analytical Parameters

Groundwater sample analyses were performed by Calscience Environmental Laboratories in Garden Grove, California. Groundwater samples were analyzed by the laboratory as detailed below:

Parameter	Analytical Method
Total Petroleum Hydrocarbons (TPH)	EPA 8015B
Volatile Organic Compounds (VOCs)	EPA 8260B
Semi-Volatile Organic Compounds (SVOCs)	EPA 8270C ML
Polychlorinated Biphenyls (PCBs)	EPA 1668A
1,4-Dioxane	EPA 8270C (M)
Metals	6010B/7470A
Dissolved Organic Gases	RSK-175M
Organic Acids	HPLC/UV
Chloride, Nitrate, Nitrite, & Sulfate (General Chemistry)	EPA 300.0
Total Sulfide (General Chemistry)	SM 4500 S2-D
Total Organic Carbon	SM 5310 D

2.3 Analytical Results

A summary of groundwater analytical results is provided in Table 4. Electronic copies of the full analytical reports are provided on the enclosed CD in Appendix D.

2.3.1 Total Petroleum Hydrocarbons

Petroleum hydrocarbons were detected at low level concentrations in groundwater samples collected from monitor wells AREA D-MW1, B120-MW1, B120-MW2, B120-MW3, and B120-MW6 (Tables 4 and 5). No groundwater samples exceeded the proposed site-specific Risk Based Concentrations (RBCs).

2.3.2 1,4-Dioxane

Groundwater samples were analyzed using EPA method 8270C (M). Moderate concentrations of 1,4-dioxane were detected in groundwater collected from monitor wells B120-MW1 (920 µg/L), B120-MW3 (790 µg/L), B131-MW3 (130 µg/L), and B131-MW5 (440 µg/L) (Table 4). Low concentrations were detected in B120-MW2, B120-MW6, B131-MW2, B131-MW4, B131-MW6, MWCL-1, and MWCL-7 with concentrations ranging from 8.4 µg/L to 33 µg/L. No samples exceeded the proposed site-specific RBCs.

2.3.3 Polychlorinated Biphenyls

Groundwater was analyzed for PCB homologs using high resolution method 1668A after laboratory filtration using a 0.1 micron filter to remove suspended particulates. PCBs were detected in groundwater samples at concentrations ranging from 59.7 ng/L to 27,000 ng/L in on-site samples, and from 3.86 ng/L to 5.29 ng/L in Convair Lagoon vicinity samples (Table 4, Table 5). Total PCBs were also detected in the laboratory method blank at a concentration of 3.73 ng/L. PCB sample results within 5 times the method blank value are considered estimated values.

2.3.4 Volatile Organic Compounds

The chlorinated hydrocarbons (CVOCs) cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), tetrachloroethene (PCE), or vinyl chloride (VC) were detected in groundwater samples collected from Building 120 monitor wells B120-MW1, B120-MW2, B120-MW3, and B120-MW6 (Table 4). Low concentrations of VOCs were also detected in groundwater samples collected from Convair Lagoon vicinity monitor wells MWCL-1, -5, -7, -8R (Table 5). All VOCs detected within Convair Lagoon vicinity monitor wells during this sampling event were below RBC and CTR values. The remaining groundwater samples collected from the off-site sentry wells contained no detectable VOCs.

Trace concentrations of cis-1,2-DCE were detected in downgradient monitor wells BLD120-MW4 and BLD120-MW5. No other COCs were detected in these monitor wells, which are immediately downgradient of the Building 166AST/120/121 EISB interim action area. These concentrations are consistent with historical results and are below RBC values. VOC concentrations in the former maintenance yard and Building 180 AOCs continue to be below RBC values (Appendix B).

2.3.5 Semi-Volatile Organic Compounds

During the First Quarter 2009 sampling event, SVOCs were sampled in the off-site Convair Lagoon vicinity monitor wells. Six of these wells (MWCL-1, -3, -4, -5, -6, and -7) contained trace detections of one or more of the following SVOCs: bis-2-ethylhexyl phthalate, butyl benzyl phthalate, diethyl phthalate, and di-n-butyl phthalate (Table 5). All SVOCs detected within Convair Lagoon vicinity monitor wells during this sampling event were below RBC and CTR values. These wells will continue to be monitored for SVOCs.

2.3.6 Metals

During the third Quarter 2009 sampling event, metals were sampled in the off-site Convair Lagoon vicinity monitor wells. Trace concentrations of mercury were detected in groundwater from MWCL-4. Trace concentrations of copper detected in MWCL-4, 5, and 6 were generally lower than previous monitoring events. Zinc was detected above background concentrations in the groundwater sample collected from MWCL-7. Silver was detected at trace to low concentrations in MWCL-1, -2, -3, -5, -7, and -8. This is the first time silver has been detected in Convair Lagoon vicinity monitor wells. A background groundwater concentration was not able to be developed for silver because it was not detected in on-site samples enough times to statistically calculate a background value. This is the second complete metals sampling event in Convair Lagoon vicinity monitor wells. Trends will be evaluated after the next sampling event.

2.4 Area Specific Evaluations

In the following sections, concentration trends and observations are noted as they pertain to AOCs as a whole. For wells and constituents that have sufficient data for trend analysis (at least three data points), time trends have been plotted and are presented in Appendix A. Time trends specifically depicting CVOC degradation trends in the EISB treatment areas are separately presented in Appendix B.

2.4.1 Building 131/242 EISB Monitoring Results

Monitor wells in the Building 131 area (BLD131-MW2, -MW3, -MW5, and -MW6) were sampled to evaluate the ongoing performance of the EISB pilot study. The monitor wells were sampled for VOCs, TOC, organic acids, general chemistry, and dissolved organic gases (Table 6). BLD131-MW2, -MW3, and -MW6, have met RBC goals, and contain only low level residual VOC concentrations (Table 4, Appendix B). The groundwater sample from monitor well BLD131-MW5 exceeded the RBC for vinyl

chloride. However, high ethene concentrations are a strong indication that complete degradation is still occurring.

Although vinyl chloride concentrations were not observed to decrease from the 1st quarter 2009 sampling event in B131-MW5, the geochemical conditions within the well continue to be favorable for ongoing reductive degradation, with reducing conditions and sufficient residual TOC.

2.4.2 Area D Monitoring Results

Monitor well Area D-MW1 was installed following remedial excavation and groundwater/LNAPL extraction activities that took place in Area D. This well was sampled for VOCs, TPH, and 1,4-dioxane. No constituents were detected in excess of RBCs during this sampling event. TPH was detected at a concentration of 5.4 mg/L (Table 4). Acetone was detected at a concentration of 16 µg/L. Acetone is a common laboratory contaminant and was detected below the laboratory reporting limit.

Monitor well Area D-MW2, located downgradient from Area D, was sampled for VOCs, TPH, and 1,4-dioxane. There was a trace detection of vinyl chloride (1.1 µg/L) while no TPH or 1,4-dioxane were detected.

2.4.3 Building 158 Monitoring Results

Monitor well B158-MW1 was installed within Building 158 following interim remedial activities to remediate chromium groundwater impacts in Building 158. The samples collected from this well had detections of total chromium and hexavalent chromium (664 mg/L and 760 mg/L, respectively) (Table 4). Due to the differences in the two methods used to analyze for total chromium and hexavalent chromium, hexavalent chromium results are sometimes reported to exceed total chromium results. An alternate (ion-chromatography) analysis by EPA Method 7199 is recommended for hexavalent chromium analysis during the next sampling event to improve comparability of results. Monitor well B158-MW2 was installed downgradient of building 158 and had detections of 0.00651 mg/L for total chromium and non-detect for hexavalent chromium. These results indicate that chromium impacts have not migrated significantly downgradient.

2.4.4 Building 120 Monitoring Results

PCBs were significantly detected in groundwater in B120-MW2, which is located adjacent to an area of known historic PCB impacts (the location of the original 30-inch

East SWCS, which was replaced in 1986). The groundwater PCB sampling program will be expanded during the 1st quarter 2010 sampling event to further evaluate these impacts.

2.4.5 Convair Lagoon Monitoring Results

The low levels of VOCs historically detected at the western monitor well cluster (MWCL-5, -6, and -7) have shown a generally decreasing trend (Table 5, Appendix A). Metals detections in the sentry wells will continue to be monitored. Additional data is needed to perform a trend analysis. PCBs were detected slightly above the levels detected within the laboratory method blank in two of the four samples from the shallow groundwater in Convair Lagoon vicinity. These concentrations appear to be relatively stable.

2.4.6 Full Scale EISB Monitoring Results

The Full scale EISB monitoring results are presented in Table 6 to document the semiannual process of the interim remedial actions at the Building 166AST/120/121, Building 180, and Former Maintenance Yard AOCs.

2.4.6.1 Building 120 EISB Monitoring Results

After initial increases, significant reductions in total VOC concentrations to below RBC values were observed in monitor wells B120-MW1, -3, -6, -7, -8, and -9 following the implementation of the interim action EISB program in October through December 2008. The distribution and concentration trends of CVOCs within these wells indicate that the EISB interim action appears to be progressing rapidly (Table 6, Appendix B). For example, prior significant increases in parent compound CVOC concentrations in B120-MW2 indicated CVOCs in the vadose zone were successfully washed into solution during the injection event. The recent significant decreases in parent compound CVOC concentrations coupled with the significant increase in daughter-product CVOC concentrations indicate that the CVOCs are being broken down. Strong degradation patterns and elevated ethene concentrations indicate that complete degradation is occurring and so it is expected that cis-1,2-DCE and VC concentrations will begin to decline in the near future. CVOC concentrations will continue to be monitored in this area to confirm ongoing degradation trends.

Based on the data from this sampling event, RBC goals have been met at all monitor wells except in B120-MW2 which still has RBC exceedances for PCE, cis-1,2-DCE,

and VC (Table 6). Monitoring and evaluation will continue in future sampling events (Appendix A, Appendix B).

2.4.6.2 Former Maintenance Yard Results

Significant reductions in total VOC concentrations were observed in monitor well FMY-MW1 following the implementation of the interim action EISB program in October through December 2008. Based on the data from this initial sampling event following the EISB implementation, RBC goals have been met in the vicinity of the Former Maintenance Yard (Table 6, Appendix B).

2.4.6.3 Building 180 Results

Significant reductions in total VOC concentrations were observed in monitor well B180-MW2 following the implementation of the interim action EISB program in October through December 2008. Based on the data from this initial sampling event following the EISB implementation, RBC goals continue to be met in the vicinity of the Building 180 AOC (Table 6, Appendix B).

3. CONCLUSIONS AND RECOMMENDATIONS

Groundwater elevations at the Site and near Convair Lagoon ranged from approximately 1.15 to 3.02 ft MSL. Groundwater generally flows in a southerly direction with a hydraulic gradient ranging from 0.0016 to 0.0028 ft/ft. The hydraulic gradient appears to increase in the vicinity of Convair Lagoon.

In the third quarter 2009 sampling event, monitoring wells Area D-MW2 and B158-MW2 was added to the monitoring and reporting program, Area D-MW2 was sampled for VOCs, TPH, and 1,4-dioxane. B158-MW2 was sampled for total chromium and hexavalent chromium.

Groundwater samples collected from monitor well MWCL-5 and MWCL-7 continue to contain stable to declining concentrations of cis-1,2-DCE (3.8 µg/L and 7.5 µg/L, respectively), as compared to previous sampling events. The overall current trends indicate that VOC concentrations are stable or declining within the Convair Lagoon vicinity wells and are currently below the CTRs. These wells will continue to be evaluated for VOC trends. The potential presence of anomalous trace detections of silver in groundwater samples from Convair Lagoon vicinity monitor wells will continue to be monitored for.

Sample results from downgradient monitor wells BLD120-MW4, and BLD120-MW5 continue to indicate that COCs from the Building 166AST/120/121 AOC have not significantly migrated downgradient.

Groundwater samples collected in the Former Maintenance Yard and Building 180 AOCs indicate that VOC concentration remain below the RBCs in these areas. Building 166AST/120/121 AOC monitor wells sample results exhibited marked reductions in VOC concentrations. All results met the RBCs, except those for monitor well B120-MW2, which still exhibit RBC exceedances for PCE, cis-1,2-DCE, and VC.

RBCs have been met in all wells in the 131/242 area with the exception of vinyl chloride in B131-MW5. VOC results throughout the area will continue to be monitored to determine if additional targeted donor injections are warranted.

Due to the elevated PCB results for samples collected from monitor wells B120-MW2 and B120-MW3, it is recommended that PCBs be added to the sampling protocol for B120-MW1, B120-MW4, B120-MW-5, B120-MW6, and B120-MW7. Future groundwater samples will be analyzed for PCBs using EPA Method 8082 high resolution. This method can achieve reporting limits in the 0.5 ng/L range and can

present the PCB data by Aroclor or homolog. Aroclors data is useful for comparison to existing site RBCs, so the on-site samples will be analyzed for Aroclors while the off-site samples will continue to be reported by homolog.

4. REFERENCES

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TABLES

Table 1
Groundwater Monitor Well Specifications
2701 North Harbor Drive
San Diego, California

Well Number	Top of Casing Elevation (ft MSL)	Screened Interval (ft bgs)
AREA D-MW1	11.351	6-16
AREA D-MW2	10.130	6-16
BLD120-MW-1	8.882	10-15*
BLD120-MW-2	8.867	10-15*
BLD120-MW-3	8.776	10-15*
BLD120-MW-4	7.071	5-15
BLD120-MW-5	8.029	5-15
BLD120-MW-6	8.728	5-15
BLD120-MW-7	8.786	5-15
BLD120-MW-8	8.941	5-15
BLD120-MW-9	8.455	6-16
BLD131-MW1	8.995	5-15
BLD131-MW2	9.460	5-15
BLD131-MW2D	9.670	35-40
BLD131-MW3	9.196	5-15
BLD131-MW3D	9.750	35-40
BLD131-MW4	8.916	5-15
BLD131-MW5	10.116	5-15
BLD131-MW6	9.458	5-15
BLD180-MW1	7.887	5-15
BLD180-MW2	8.465	5-15
BLD102-MW4	8.831	12-17*
BLD102-MW5	9.533	10-15*
BLD102-MW6	9.390	10-15*
BLD-156-MW1	9.263	10-15*
BLD158-MW1	9.370	5-15
BLD158-MW2	9.520	5-15
FMY-MW1	8.314	6-16
GT4	8.917	5-15
MWCL-1	8.426	37-42
MWCL-2	8.491	5-15
MWCL-3	9.520	38-43
MWCL-4	9.604	5-15
MWCL-5	11.074	37-42
MWCL-6	10.949	5-15
MWCL-7	11.150	60-65
MWCL-8R	9.150	7-12
P2	9.120	5-15*

MSL - Mean Sea Level

ft toc - feet below top of casing

NS - Not surveyed at time of report

* - Estimated screened interval

Table 2
Revised Groundwater Sampling Matrix
2701 North Harbor Drive
San Diego, California

Monitoring Well ID	Sampling Frequency	Laboratory Analyses								Total Chromium/Hexavalent Chromium
		VOCs by EPA Method 8260B	Ethene/ Ethane/ Methane by EPA Method RSK-175M	SVOCs by EPA Method 8270C ML	TPH by EPA Method 8015	PCBs by EPA Method 8082 High Res	Dissolved Metals by EPA Method 6010B/7470A	1,4-Dioxane by Modified EPA Method 8270 ²	EISB Sampling Suite ³	
AREA D-MW1	Semi-Annually	X	-	-	X	-	-	-	-	-
AREA D-MW2	Semi-Annually	X	-	-	X	-	-	X	-	-
MWCL-1	Semi-Annually	X	-	X	X	-	X	X	-	-
MWCL-2	Semi-Annually	X	-	X	X	X ⁴	X	X	-	-
MWCL-3	Semi-Annually	X	-	X	X	-	X	X	-	-
MWCL-4	Semi-Annually	X	-	X	X	X ⁴	X	X	-	-
MWCL-5	Semi-Annually	X	-	X	X	-	X	X	-	-
MWCL-6	Semi-Annually	X	-	X	X	X ⁴	X	X	-	-
MWCL-7	Semi-Annually	X	-	X	X	-	X	X	-	-
MWCL-8R	Semi-Annually	X	-	X	X	X ⁴	X	X	-	-
BLD102-MW4	Semi-Annually	X	-	-	X	-	-	-	-	-
BLD120-MW1	Semi-Annually	X	X	-	X	X ⁵	-	X	X	-
BLD120-MW2	Semi-Annually	X	X	-	X	X	-	X	X	-
BLD120-MW3	Semi-Annually	X	X	-	X	X	-	X	X	-
BLD120-MW4	Semi-Annually	X	-	-	X	X ⁵	-	X	-	-
BLD120-MW5	Semi-Annually	X	-	-	X	X ⁵	-	X	-	-
BLD120-MW6	Semi-Annually	X	X	-	X	X ⁵	-	X	X	-
BLD120-MW7	Semi-Annually	-	-	-	-	X ⁵	-	-	-	-
BLD131-MW2	Semi-Annually	X	X	-	-	-	-	X	X	-
BLD131-MW3	Semi-Annually	X	X	-	-	-	-	X	X	-
BLD131-MW4	Semi-Annually	X	-	-	-	-	-	X	-	-
BLD131-MW5	Semi-Annually	X	X	-	-	-	-	X	X	-
BLD131-MW6	Semi-Annually	X	X	-	-	-	-	X	X	-
BLD158-MW1	Semi-Annually	-	-	-	-	-	-	-	-	X
BLD158-MW2	Semi-Annually	-	-	-	-	-	-	-	-	X

VOCs - Volatile Organic Compounds

SVOCs - Semi-Volatile Organic Compounds

TPH - Total Petroleum Hydrocarbons

PCBs - Polychlorinated Biphenyls

EISB - Enhanced In-situ Bioremediation

- Analyte not sampled

Semi-Annual sampling to be conducted in January and July of each year

1 - Sampling will commence in First Quarter 2010

2 - Modified EPA Method 8270 using GC/MS isotope dilution to achieve 2 µg/L detection limits

3- TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids.

4- PCBs presented as homologs

5- PCB presented as Aroclors

New Addition to MRP

**Table 3
Summary of Groundwater Elevations
2701 North Harbor Drive
San Diego, California**

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
BLD120-MW1	8.882	8/30/2006	14.75	6.30	2.58
		1/8/2007	14.75	6.49	2.39
		8/21/2007	14.75	6.59	2.29
		1/21/2008	14.75	6.10	2.78
		7/21/2008	14.75	6.24	2.64
		1/14/2009	14.75	5.05	3.83
		7/20/2009	14.75	5.97	2.91
BLD120-MW2	8.867	8/30/2006	13.60	6.49	2.38
		1/8/2007	13.40	6.60	2.27
		8/21/2007	13.33	6.72	2.15
		1/21/2008	13.33	6.19	2.68
		7/21/2008	13.33	6.40	2.47
		1/14/2009	13.33	5.34	3.53
		7/20/2009	13.33	6.29	2.58
BLD120-MW3	8.776	8/30/2006	14.34	6.45	2.33
		1/8/2007	14.34	6.60	2.18
		8/21/2007	14.35	6.67	2.11
		1/21/2008	14.35	6.30	2.48
		7/21/2008	14.35	6.36	2.42
		1/14/2009	14.35	5.58	3.20
		7/20/2009	14.35	6.34	2.44
BLD120-MW4	7.071	8/30/2006	14.55	5.00	2.07
		1/8/2007	14.55	5.22	1.85
		8/21/2007	14.55	5.13	1.94
		1/21/2008	14.55	4.63	2.44
		7/21/2008	14.55	4.80	2.27
		1/14/2009	14.55	4.74	2.33
		7/20/2009	14.55	5.05	2.02
BLD120-MW5	8.029	8/30/2006	15.15	6.00	2.03
		1/8/2007	15.15	6.05	1.98
		8/21/2007	15.15	5.97	2.06
		1/21/2008	15.15	5.42	2.61
		7/21/2008	15.15	5.33	2.70
		1/14/2009	15.15	5.72	2.31
		7/20/2009	15.15	6.04	1.99
BLD120-MW6	8.728	8/30/2006	14.55	6.36	2.37
		1/8/2007	14.55	6.50	2.23
		8/21/2007	14.55	6.62	2.11
		1/21/2008	14.55	5.99	2.74
		7/21/2008	14.55	6.32	2.41
		1/14/2009	14.55	5.19	3.54
		7/20/2009	14.55	6.09	2.64
BLD120-MW7	8.786	1/14/2009	15.05	6.21	2.58
		7/20/2009	15.05	6.53	2.26
BLD120-MW8	8.941	1/14/2009	15.22	4.88	4.06
		7/20/2009	15.22	6.00	2.94
BLD120-MW9	8.455	1/14/2009	15.37	4.62	3.84
		7/20/2009	15.37	5.44	3.02
BLD131-MW1	8.995	8/30/2006	14.55	6.36	2.64
		1/8/2007	14.55	6.60	2.40
		8/21/2007	14.55	6.55	2.45
		1/21/2008	14.55	6.35	2.65
		7/21/2008	14.55	6.35	2.65
		1/14/2009	14.55	6.30	2.70
		7/20/2009	14.55	6.64	2.36

Table 3
Summary of Groundwater Elevations
2701 North Harbor Drive
San Diego, California

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
BLD131-MW2	9.460	8/30/2006	14.51	6.80	2.66
		1/8/2007	14.51	7.05	2.41
		8/21/2007	14.51	7.00	2.46
		1/21/2008	14.51	6.70	2.76
		7/21/2008	14.51	6.77	2.69
		1/14/2009	14.51	6.66	2.80
		7/20/2009	14.51	7.02	2.44
BLD131-MW2D	9.670	8/30/2006	40.08	7.57	2.10
		1/8/2007	40.08	-	-
		8/21/2007	40.08	7.80	1.87
		1/21/2008	40.08	7.31	3.02
		7/21/2008	40.08	7.70	1.97
		1/14/2009	40.08	7.14	2.53
		7/20/2009	40.08	8.04	1.63
BLD131-MW3	9.196	8/30/2006	14.46	6.61	2.59
		1/8/2007	14.46	6.95	2.25
		8/21/2007	14.46	6.83	2.37
		1/21/2008	14.46	6.65	2.55
		7/21/2008	14.46	6.63	2.57
		1/14/2009	14.46	6.59	2.61
		7/20/2009	14.46	6.93	2.27
BLD131-MW3D	9.750	8/30/2006	39.88	7.76	1.99
		1/8/2007	39.88	-	-
		8/21/2007	39.88	7.89	1.86
		1/21/2008	39.88	7.15	2.60
		7/21/2008	39.88	7.52	2.23
		1/14/2009	39.88	7.64	2.11
		7/20/2009	39.88	8.28	1.47
BLD131-MW4	8.916	8/30/2006	13.70	6.29	2.63
		1/8/2007	13.70	6.70	2.22
		8/21/2007	13.70	6.50	2.42
		1/21/2008	13.70	6.54	2.38
		7/21/2008	13.70	6.33	2.59
		1/14/2009	13.70	6.46	2.46
		7/20/2009	13.70	6.79	2.13
BLD131-MW5	10.116	8/30/2006	13.55	-	-
		1/8/2007	13.55	-	-
		8/21/2007	13.55	7.84	2.28
		1/21/2008	13.55	7.76	2.36
		7/21/2008	13.55	7.70	2.42
		1/14/2009	13.55	7.67	2.45
		7/20/2009	13.55	7.98	2.14
BLD131-MW6	9.458	7/21/2008	15.19	6.88	2.58
		1/14/2009	15.19	6.88	2.58
		7/20/2009	15.19	7.20	2.26
BLD180-MW1	7.887	8/30/2006	15.25	6.29	1.60
		1/8/2007	15.25	-	-
		8/21/2007	15.25	6.13	1.76
	8.125	1/21/2008	15.25	6.21	1.68
		7/21/2008	15.25	6.26	1.63
		1/14/2009	15.25	6.40	1.49
		7/20/2009	15.25	6.53	1.60

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2701 North Harbor Drive
San Diego, California

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
BLD180-MW2	8.465	1/14/2009	13.35	6.52	1.95
		7/20/2009	13.35	6.40	2.07
BLD102-MW4	8.831	8/30/2006	17.80	6.44	2.39
		1/8/2007	17.80	6.65	2.18
		8/21/2007	17.80	6.57	2.26
		1/21/2008	17.80	6.50	2.33
		7/21/2008	17.80	6.27	2.56
		1/14/2009	17.80	6.74	2.09
		7/20/2009	17.80	6.76	2.07
BLD102-MW5	9.533	8/30/2006	15.18	7.11	2.42
		1/8/2007	15.18	7.40	2.13
		8/21/2007	15.18	7.29	2.24
		1/21/2008	15.18	7.09	2.44
		7/21/2008	15.18	7.02	2.51
		1/14/2009	15.18	6.89	2.64
		7/20/2009	15.18	7.23	2.30
BLD102-MW6	9.390	7/20/2009	15.25	7.09	2.30
BLD-156-MW1	9.263	8/30/2006	15.36	6.61	2.65
		1/8/2007	15.36	6.90	2.36
		8/21/2007	15.36	6.87	2.39
		1/21/2008	15.36	6.51	2.75
		7/21/2008	15.36	6.58	2.68
		1/14/2009	15.36	6.43	2.83
		7/20/2009	15.36	6.85	2.41
MWCL-1	8.426	8/30/2006	42.20	6.55	1.88
		1/8/2007	42.20	6.70	1.73
		8/21/2007	42.20	6.99	1.44
		1/21/2008	42.20	5.99	2.44
		7/21/2008	42.20	6.67	1.76
		1/14/2009	42.20	6.52	1.91
		7/20/2009	42.20	7.00	1.43
MWCL-2	8.491	8/30/2006	14.18	6.92	1.57
		1/8/2007	14.20	6.90	1.59
		8/21/2007	14.20	7.00	1.49
		1/21/2008	14.20	6.64	1.85
		7/21/2008	14.20	6.59	1.90
		1/14/2009	14.20	6.65	1.84
		7/20/2009	14.20	6.75	1.74
MWCL-3	9.520	8/30/2006	43.32	8.71	0.81
		1/8/2007	43.40	9.20	0.32
		8/21/2007	43.40	8.99	0.53
		1/21/2008	43.40	8.12	1.40
		7/21/2008	43.40	11.05*	-1.53
		1/14/2009	43.40	8.60	0.92
		7/20/2009	43.40	10.12*	-0.60

**Table 3
Summary of Groundwater Elevations
2701 North Harbor Drive
San Diego, California**

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
MWCL-4	9.604	8/30/2006	14.30	7.90	1.70
		1/8/2007	14.30	8.05	1.55
		8/21/2007	14.30	8.13	1.47
		1/21/2008	14.30	7.83	1.77
		7/21/2008	14.30	7.86	1.74
		1/14/2009	14.30	7.98	1.62
		7/20/2009	14.30	8.15	1.45
MWCL-5	11.074	8/30/2006	42.44	10.32	0.75
		1/8/2007	42.50	10.60	0.47
		8/21/2007	42.50	10.64	0.43
		1/21/2008	42.50	10.01	1.06
		7/21/2008	42.50	20.07*	-8.99
		1/14/2009	42.50	10.18	0.89
		7/20/2009	42.50	12.80*	-1.73
MWCL-6	10.949	8/30/2006	14.85	9.84	1.11
		1/8/2007	14.90	10.10	0.85
		8/21/2007	14.90	10.19	0.76
		1/21/2008	14.90	8.70	2.25
		7/21/2008	14.90	9.83	1.12
		1/14/2009	14.90	9.95	1.00
		7/20/2009	14.90	9.80	1.15
MWCL-7	11.150	1/8/2007	65.00	9.54	1.61
		8/21/2007	65.00	9.83	1.32
		1/21/2008	65.00	9.42	1.73
		7/21/2008	65.00	9.34	1.81
		1/14/2009	65.00	9.16	1.99
		7/20/2009	65.00	9.68	1.47
		MWCL-8R	9.150	7/20/2009	12.19
GT4	8.917	8/30/2006	15.66	7.09	1.83
		1/8/2007	15.66	7.48	1.44
		8/21/2007	15.66	7.31	1.61
		1/21/2008	15.66	6.96	1.96
		7/21/2008	15.66	6.91	2.01
		1/14/2009	15.66	6.84	2.08
		7/20/2009	15.66	7.02	1.90
P2	9.120	7/20/2009	14.83	6.26	2.86
B158-MW1	9.370	7/21/2008	14.97	6.60	2.77
		1/14/2009	14.97	6.38	2.99
		7/20/2009	14.97	6.76	2.61
B158-MW2	9.520	7/20/2009	16.56	6.84	2.68
AreaD-MW1	11.351	7/21/2008	16.69	8.41	2.94
		1/14/2009	16.69	8.25	3.10
		7/20/2009	16.69	8.59	2.76
AreaD-MW2	10.13	7/20/2009	15.67	7.36	2.77
FMY-MW1	8.314	1/14/2009	15.15	6.05	2.26
		7/20/2009	15.15	6.20	2.11

Notes:

ft toc = feet below top of casing

ft MSL = feet below Mean Sea Level

" - " = Monitor well not gauged

* - Groundwater elevation artificially low due to pressurized well conditions

Table 4
Summary of Detected Constituents in On-Site Wells
2701 North Harbor Drive, San Diego CA

Chemical	Units	RBC	AreaD-MW1	AreaD-MW2	BLD102-MW4	BLD120-MW1	BLD120-MW2	BLD120-MW3	BLD120-MW4	BLD120-MW5	BLD120-MW6	BLD131-MW2	BLD131-MW3	BLD131-MW4	BLD131-MW5	BLD131-MW6	BLD158-MW1	BLD158-MW2
			7/21/2009	7/21/2009	7/22/2009	7/22/2009	7/22/2009	7/22/2009	7/22/2009	7/22/2009	7/22/2009	7/22/2009	7/22/2009	7/22/2009	7/22/2009	7/22/2009	7/21/2009	7/20/2009
General Chemistry Parameters																		
Chloride	mg/L	NE	-	-	-	290	250	560	-	-	190	280	330	-	760	770	-	-
Nitrate (as N)	mg/L	NE	-	-	-	ND<0.1	ND<0.1	0.12	-	-	0.021	ND<0.1	ND<0.1	-	ND<0.2	ND<0.2	-	-
Nitrite (as N)	mg/L	NE	-	-	-	ND<0.1	ND<0.1	0.62	-	-	ND<0.1	ND<0.1	ND<0.1	-	ND<0.2	ND<0.2	-	-
Sulfate	mg/L	NE	-	-	-	3.1	3.4	3.6	-	-	6.1	2.8	9.3	-	220	29	-	-
Sulfide, Total	mg/L	NE	-	-	-	0.20	0.10	0.15	-	-	0.25	0.20	1.2	-	ND<0.05	0.10	-	-
Carbon, Total Organic (TOC)	mg/L	NE	-	-	-	280	720	1800	-	-	57	21	55	-	52	9.1	-	-
Oxidation Reduction Potential (ORP)	mV	NE	-22.2	-43.9	-7.6	-128.5	-104.8	-76.8	-92.1	-35.3	-131.8	-64.3	-83.3	-35.1	-50.9	-3.1	52.1	69.6
Metals Parameters																		
Chromium	mg/L	23000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	664	0.00651
Chromium, Hexavalent	mg/L	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	760	ND<0.004
Volatile Organic Compounds																		
1,1-Dichloroethane (1,1-DCA)	µg/L	30000	ND<1	ND<1	ND<1	1.2	ND<20	2.0 J	ND<1	ND<1	0.99 J	ND<1	ND<1	ND<1	ND<10	ND<1	-	-
1,1-Dichloroethene (1,1-DCE)	µg/L	4800	ND<1	ND<1	ND<1	ND<1	ND<20	2.9 J	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<10	ND<1	-	-
1,2,4-Trimethylbenzene	µg/L	1100	ND<1	ND<1	ND<1	ND<1	ND<20	ND<5	ND<1	ND<1	ND<1	ND<1	0.35 J	ND<1	ND<10	ND<1	-	-
1,2-Dichlorobenzene	µg/L	1700	ND<1	ND<1	ND<1	ND<1	ND<20	ND<5	ND<1	ND<1	ND<1	ND<1	4.6	ND<1	ND<10	0.85 J	-	-
1,2-Dichloroethane (EDC)	µg/L	360	ND<0.5	ND<0.5	ND<0.5	1.3	ND<10	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5	ND<5	-	-
1,3-Dichlorobenzene	µg/L	4800	ND<1	ND<1	ND<1	ND<1	ND<20	ND<5	ND<1	ND<1	ND<1	ND<1	0.39 J	ND<1	ND<10	ND<1	-	-
1,4-Dichlorobenzene	µg/L	5300	ND<1	ND<1	ND<1	ND<1	ND<20	ND<5	ND<1	ND<1	ND<1	ND<1	12	2.0	ND<10	4.6	-	-
2-Butanone (MEK)	µg/L	920000	ND<10	ND<10	ND<10	7.9 J	ND<200	110	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<100	ND<10	-	-
Acetone	µg/L	430000	16 J	ND<50	ND<50	47 J	ND<1000	800	ND<50	ND<50	13 J	ND<50	ND<50	ND<50	ND<500	ND<50	-	-
Benzene	µg/L	1500	ND<0.5	ND<0.5	ND<0.5	0.41 J	ND<10	ND<2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	2.0	ND<0.5	13	13	-
Chlorobenzene	µg/L	7800	ND<1	ND<1	ND<1	ND<1	ND<20	ND<5	ND<1	ND<1	ND<1	ND<1	2.0	ND<1	ND<10	2.5	-	-
Chloroethane	µg/L	47000	ND<5	ND<5	ND<5	6.1	ND<100	ND<25	ND<5	ND<5	ND<5	ND<5	3.4 J	ND<5	ND<50	ND<5	-	-
Chloromethane	µg/L	4500	ND<10	ND<10	ND<10	1.0 J	ND<200	ND<50	ND<10	ND<10	ND<10	ND<10	0.98 J	ND<10	ND<100	ND<10	-	-
cis-1,2-Dichloroethene	µg/L	2400	ND<1	ND<1	0.96 J	4.0	5200 D	310	1.8	1.7	5.5	0.69 J	1.3	1.4	ND<10	0.90 J	-	-
Tetrachloroethene (PCE)	µg/L	320	ND<1	ND<1	ND<1	ND<1	510	ND<5	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<10	ND<1	-	-
Toluene	µg/L	20000	ND<1	ND<1	ND<1	0.45 J	ND<20	ND<5	ND<1	ND<1	ND<1	ND<1	0.86 J	0.49 J	ND<10	1.2	-	-
trans-1,2-Dichloroethene	µg/L	4800	ND<1	ND<1	ND<1	3.1	31	3.2 J	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	15	ND<1	-	-
Trichloroethene (TCE)	µg/L	260	ND<1	ND<1	ND<1	0.39 J	130	ND<5	ND<1	ND<1	ND<1	ND<1	0.35 J	ND<1	ND<10	ND<1	-	-
Vinyl Chloride	µg/L	500	ND<0.5	1.1	6.1	3.6	2100	2.5 J	ND<0.5	ND<0.5	1.3	1.6	2.1	28	2500 D	1.3	-	-
Semi Volatile Organic Compounds																		
1,4-Dioxane	µg/L	910000	-	ND<2	-	920	33	790	ND<2	ND<2	8.4	9.3	130	15	440	32	-	-
PCBs																		
Total PCBs	ng/L	NE	-	-	-	-	27000	59.7	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (TPH)																		
C6-C44 Total	µg/L	NE	850	ND<500	ND<500	2500	2200	8800	ND<500	ND<500	1000	-	-	-	-	-	-	-
Dissolved Organic Gases																		
Ethane	µg/L	NE	-	-	-	0.450	0.260	1.39	-	-	0.320	0.0800	1.66	-	113	28.5	-	-
Ethylene	µg/L	NE	-	-	-	56.0	841	34.6	-	-	35.9	9.08	3.88	-	163	113	-	-
Methane	µg/L	NE	-	-	-	6400	6150	10400	-	-	8330	5800	7650	-	4540	9510	-	-
Organic Acids																		
Acetic Acid	mg/L	NE	-	-	-	330	1100	2500	-	-	53	9.5	290	-	ND<1	ND<1	-	-
Butyric Acid	mg/L	NE	-	-	-	140	94	450	-	-	ND<1	ND<1	ND<1	-	ND<1	ND<1	-	-
Propionic Acid	mg/L	NE	-	-	-	37	45	160	-	-	ND<1	ND<1	14	-	ND<1	ND<1	-	-

Notes:

"<" Not detected at concentrations greater than or equal to the laboratory reporting limit (RL)

D - The analyte concentration was reported from analysis of the diluted sample

- Not analyzed

J - reported value is between the analytical method detection limit and the RL

mg/L - milligrams per liter

µg/L - micrograms per liter

ng/L - nanograms per liter

B - Estimated concentration, within 5x method blank value, concentrations detected below the method blank value

are reported as ND with a detection limit one unit greater than the blank detection

* Field Analytical Result

Table 5
Summary of Detected Constituents in Off-Site Wells
2701 North Harbor Drive, San Diego CA

Chemical	Units	Background	CTR		MWCL-1	MWCL-2	MWCL-3	MWCL-4	MWCL-5	MWCL-6	MWL-7	MWCL-8
			Marine	Human Health	7/20/2009	7/21/2009	7/20/2009	7/21/2009	7/20/2009	7/21/2009	7/20/2009	7/21/2009
Metals Parameters												
Antimony	mg/L	NE	NE	4.3	ND<0.015	0.00950 J	ND<0.015	ND<0.015	ND<0.015	0.00855 J	ND<0.015	0.00407 J
Arsenic	mg/L	NE	0.036	NE	0.0184	ND<0.01	0.0162	ND<0.01	0.00969 J	0.00311 J	0.00391 J	ND<0.01
Barium	mg/L	0.49	NE	NE	0.0622	0.101	0.0456	0.0556	0.0497	0.0420	0.130	0.0577
Beryllium	mg/L	NE	NE	NE	ND<0.001	0.00224 J	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001	ND<0.001
Cadmium	mg/L	NE	0.0093	NE	ND<0.005	ND<0.005	0.000435 J	ND<0.005	ND<0.005	ND<0.005	0.000394 J	ND<0.005
Chromium	mg/L	0.03	NE	NE	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.0309	0.00479 J	0.0748	ND<0.005
Cobalt	mg/L	0.04	NE	NE	0.00592	ND<0.005	0.00101 J	ND<0.005	0.00168 J	ND<0.005	0.0106	0.000809 J
Copper	mg/L	NE	0.0031	NE	ND<0.005	ND<0.005	ND<0.005	ND<0.005	0.00417 J	0.00137 J	0.00251 J	ND<0.005
Lead	mg/L	NE	0.0081	NE	0.00284 J	ND<0.01	0.00617 J	ND<0.01	0.00424 J	ND<0.01	0.00306 J	ND<0.01
Mercury	mg/L	NE	NE	0.000051	ND<0.0005	ND<0.0005	ND<0.0005	0.000424 J	ND<0.0005	ND<0.0005	ND<0.0005	ND<0.0005
Molybdenum	mg/L	0.046	NE	NE	0.0141	0.0139	0.00307 J	0.00727	0.00225 J	0.00523	0.0208	0.00829
Nickel	mg/L	0.1	0.0082	4.6	0.00252 J	0.00239 J	ND<0.005	0.00341 J	ND<0.005	0.00287 J	0.0115	0.00634
Selenium	mg/L	0.63	0.071	NE	0.00708 J	ND<0.015	0.0135 J	ND<0.015	0.00699 J	0.0124 J	0.00799 J	0.0161
Silver	mg/L	NE	0.0019	NE	0.00212 J	0.00191 J	0.00510	0.00131 J	0.00590	0.00188 J	0.00497 J	0.00201 J
Thallium	mg/L	NE	NE	0.0063	ND<0.015	0.00254 J	ND<0.015	ND<0.015	ND<0.015	0.00323 J	ND<0.015	0.00604 J
Vanadium	mg/L	0.076	NE	NE	ND<0.005	ND<0.005	ND<0.005	0.00467 J	0.00275 J	0.00295 J	ND<0.005	0.00260 J
Zinc	mg/L	0.069	0.081	NE	0.0133	0.0104	0.0225	0.00617 J	0.0169	0.00857 J	0.167	0.00701 J
Volatile Organic Compounds												
1,1-Dichloroethane (1,1-DCA)	µg/L	NE	NE	NE	0.71 J	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1
Benzene	µg/L	NE	NE	71	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.7	ND<0.5
Bromodichloromethane	µg/L	NE	NE	46	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	0.79 J	ND<1
Chloroform	µg/L	NE	NE	NE	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	1.9	ND<1
Chloromethane	µg/L	NE	NE	NE	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	0.57 J
cis-1,2-Dichloroethene	µg/L	NE	NE	NE	ND<1	ND<1	ND<1	ND<1	3.8	ND<1	7.5	ND<1
Trichloroethene (TCE)	µg/L	NE	NE	81	ND<1	ND<1	ND<1	ND<1	ND<1	ND<1	13	ND<1
Semi Volatile Organic Compounds												
Bis(2-Ethylhexyl) Phthalate	µg/L	NE	NE	5.9	0.39 J	ND<1	0.51 J	ND<1	0.68 J	0.24 J	0.23 J	ND<1
Butyl Benzyl Phthalate	µg/L	NE	NE	5200	0.14 J	ND<1	ND<1	ND<1	ND<1	0.13 J	ND<1	ND<1
Diethyl Phthalate	µg/L	NE	NE	120000	ND<1	ND<1	ND<1	0.16 J	14	ND<1	0.099 J	ND<1
Di-n-Butyl Phthalate	µg/L	NE	NE	12000	ND<1	ND<1	ND<1	0.58 BJ	ND<1	0.12 BJ	0.58 BJ	ND<1
1,4-Dioxane	µg/L	NE	NE	NE	11	ND<2	ND<2	ND<2	ND<2	ND<2	21	ND<2
PCBs												
Total PCBs	ng/L	NE	30	0.17	-	ND<3.74 B	-	3.86 BJ	-	ND<3.74 B	-	5.29 BJ

Notes:

"<" Not detected at concentrations greater than or equal to the laboratory reporting limit (RL)

B - Estimated concentration, within 5x method blank value, concentrations detected below the method blank value are reported as ND with a detection limit one unit greater than the blank detection

J - reported value is between the analytical method detection limit and the RL

mg/L - milligrams per liter

µg/L - micrograms per liter

ng/L - nanograms per liter

- Not Analyzed

** - CTR values are provided for reference although surface water screening criteria may not be appropriate for direct comparison to groundwater values

NE - Not Established

Table 6
Summary of Detected Constituents in Full-Scale EISB Treatment Areas
2701 North Harbor Drive, San Diego CA

Chemical	Units	RBC	BLD120-MW1		BLD120-MW2		BLD120-MW3		BLD120-MW6		BLD120-MW-7		BLD120-MW8		BLD120-MW9		BLD180-MW2		FMY-MW1		
			4/8/2009	7/22/2009	4/9/2009	7/22/2009	4/9/2009	7/22/2009	4/9/2009	7/22/2009	4/9/2009	7/22/2009	4/8/2009	7/21/2009	4/8/2009	7/21/2009	4/8/2009	7/21/2009	4/8/2009	7/21/2009	
General Chemistry Parameters																					
Chloride	mg/L	NE	330	290 D	210	250 D	450	560 D	240	190 D	780	1100 D	130	210 D	210	310 D	680	880 D	480	600	
Nitrate (as N)	mg/L	NE	ND<0.010	ND<0.010	ND<0.020	ND<0.010	ND<0.020	0.12 J	ND<0.010	0.021 J	ND<0.020	0.054 J	ND<0.020	0.044 J	ND<0.010	ND<0.010	ND<0.020	ND<0.020	ND<0.020	0.05	
Nitrite (as N)	mg/L	NE	0.34	ND<0.010	ND<0.020	ND<0.010	ND<0.020	0.62	ND<0.010	ND<0.010	ND<0.020	ND<0.020	ND<0.020	ND<0.010	0.13	0.66	ND<0.020	ND<0.020	ND<0.020	ND<0.020	
Sulfate	mg/L	NE	2.7	3.1	2.5	3.4	3	3.6	2.7	6.1	2.4	2.3	2.2	4.2	2.4	2.5	2.9	5.1	2.6	2.8	
Sulfide, Total	mg/L	NE	0.5	0.20	0.3	0.10	0.8	0.15	1.3	0.25	0.4	0.20	0.3	0.050	0.5	0.10	0.8	4.5	3.8	0.3	
Carbon, Total Organic (TOC)	mg/L	NE	1100	280	1100	720	1700	1800	100	57	740	25	210	180	660	560	280	90	310	89	
Oxidation Reduction Potential (ORP)*	mV	NE	-108.8	-128.5	-88.7	-104.8	-66.1	-76.8	-152	-131.8	-147.8	-41.1	-120.9	-49.4	-84.7	-84.7	-148.2	155.9	-141.6	-51.1	
Volatile Organic Compounds																					
1,1-Dichloroethane (1,1-DCA)	µg/L	30000	11	1.2	ND<10	ND<20	ND<10	2.0 J	2.5	0.99 J	ND<1	ND<1	ND<5	ND<1	15	ND<10	ND<1	ND<1	ND<20	ND<2	
1,1-Dichloroethene (1,1-DCE)	µg/L	4800	ND<10	ND<1	10	ND<20	ND<10	2.9 J	ND<1	ND<1	ND<1	ND<1	ND<5	ND<1	11	ND<10	ND<1	ND<1	ND<20	ND<2	
1,2-Dichloroethane (EDC)	µg/L	360	ND<10	1.3	ND<5	ND<10	ND<5	ND<2.5	ND<1	ND<0.5	ND<1	ND<0.5	ND<2.5	ND<0.5	ND<10	ND<5	ND<1	ND<0.5	ND<10	ND<1	
2-Butanone (MEK)	µg/L	920000	ND<100	7.9 J	ND<100	ND<200	ND<100	110	ND<10	ND<10	ND<10	ND<10	ND<50	ND<10	ND<100	ND<100	ND<10	ND<10	ND<200	ND<20	
Acetone	µg/L	430000	ND<500	47 J	ND<500	ND<1000	ND<500	800	ND<50	ND<50	13 J	ND<50	ND<50	600	610 D	ND<100	870	1300	53	3400	
Benzene	µg/L	1500	ND<5	0.41 J	ND<5	ND<10	ND<5	ND<2.5	ND<0.5	ND<0.5	0.61	0.38 J	ND<2.5	ND<0.5	ND<500	ND<5	ND<5	0.36 J	ND<10	ND<1.0	
Chloroethane	µg/L	47000	ND<500	6.1	ND<50	ND<100	ND<50	ND<25	ND<50	ND<5	ND<50	12	ND<25	ND<5	ND<5	ND<5	ND<5	ND<5	ND<100	ND<10	
Chloromethane	µg/L	4500	ND<100	1.0 J	ND<100	ND<200	ND<100	ND<50	ND<10	ND<10	ND<10	ND<10	ND<50	ND<10	ND<500	ND<100	ND<10	ND<10	ND<200	ND<20	
cis-1,2-Dichloroethene	µg/L	2400	1000	4.0	3300	5200 D	620	310	5.7	5.5	1.2	ND<1	11	3.7	1100	23	ND<10	ND<1	ND<20	ND<2	
Tetrachloroethene (PCE)	µg/L	320	ND<10	ND<1	1800	510	38	ND<5	ND<1	ND<1	ND<1	ND<1	ND<5	ND<1	ND<10	ND<10	ND<1	ND<1	ND<20	ND<2	
Toluene	µg/L	20000	ND<10	0.45 J	ND<10	ND<20	ND<10	ND<5	ND<1	ND<1	ND<1	ND<1	ND<5	ND<1	ND<10	ND<10	ND<1	ND<1	ND<20	ND<2	
trans-1,2-Dichloroethene	µg/L	4800	24	3.1	47	31	16	3.2 J	1.2	ND<1	1	0.56 J	ND<5	1.1	14	ND<10	ND<1	1.1	ND<20	ND<2	
Trichloroethene (TCE)	µg/L	260	ND<10	0.39 J	620	130	11	ND<5	ND<1	ND<1	ND<1	0.40 J	ND<5	ND<1	ND<10	ND<10	ND<1	ND<1	ND<20	ND<2	
Vinyl Chloride	µg/L	500	110	3.6	1500	2100	18	2.5 J	1.7	1.3	0.78	1.1	3.3	1.2	44	6.4	ND<5	ND<0.5	ND<10	ND<1	
Dissolved Organic Gases																					
Ethane	µg/L	NE	9.25	0.450 J	1.66	0.260 J	4.05	1.39	1.66	0.320 J	ND<1	0.0800 J	ND<1	1.66	5.35	0.290 J	ND<1	0.0500 J	ND<1	0.0700	
Ethene	µg/L	NE	787	56.0	128	841	100	34.6	128	35.9	11.8	9.08	9.61	3.88	156	20.4	2.44	0.740 J	4.03	0.690	
Methane	µg/L	NE	7530	6400	4130	6150	6490	10400	7220	8330	10200	5800	8940	7650	8830	10100	5000	6770	7590	6480	
Organic Acids																					
Acetic Acid	mg/L	NE	1900	330 D	2100	1100 D	2600	2500 D	180	53 D	1400	9.5	290	290 D	1200	960 D	180	35	230	26	
Butyric Acid	mg/L	NE	300	140 D	180	94	300	450	ND<10	ND<1	77	ND<1	ND<10	ND<1	150	190	22	ND<1	ND<10	ND<1	
Propionic Acid	mg/L	NE	ND<10	37	NS<10	45	ND<10	160	ND<10	ND<1	ND<1	ND<1	ND<10	14	ND<40	51	ND<5	ND<1	ND<10	ND<1	

Notes:

"<" Not detected at concentrations greater than or equal to the laboratory reporting limit (RL)

D - The analyte concentration was reported from analysis of the diluted sample

- Not analyzed

J - reported value is between the analytical method detecton limit and the RL

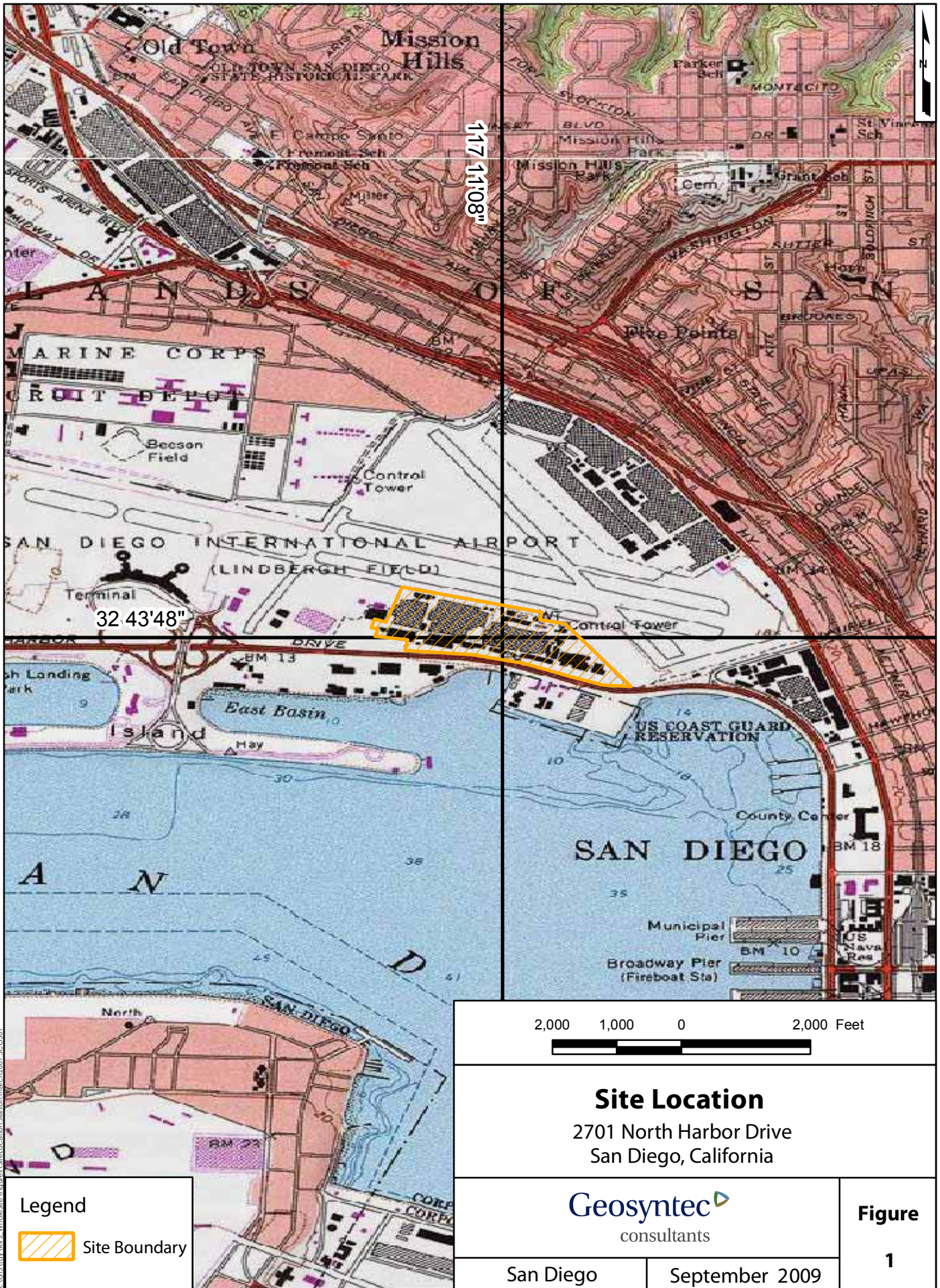
mg/L - milligrams per liter

µg/L - micrograms per liter

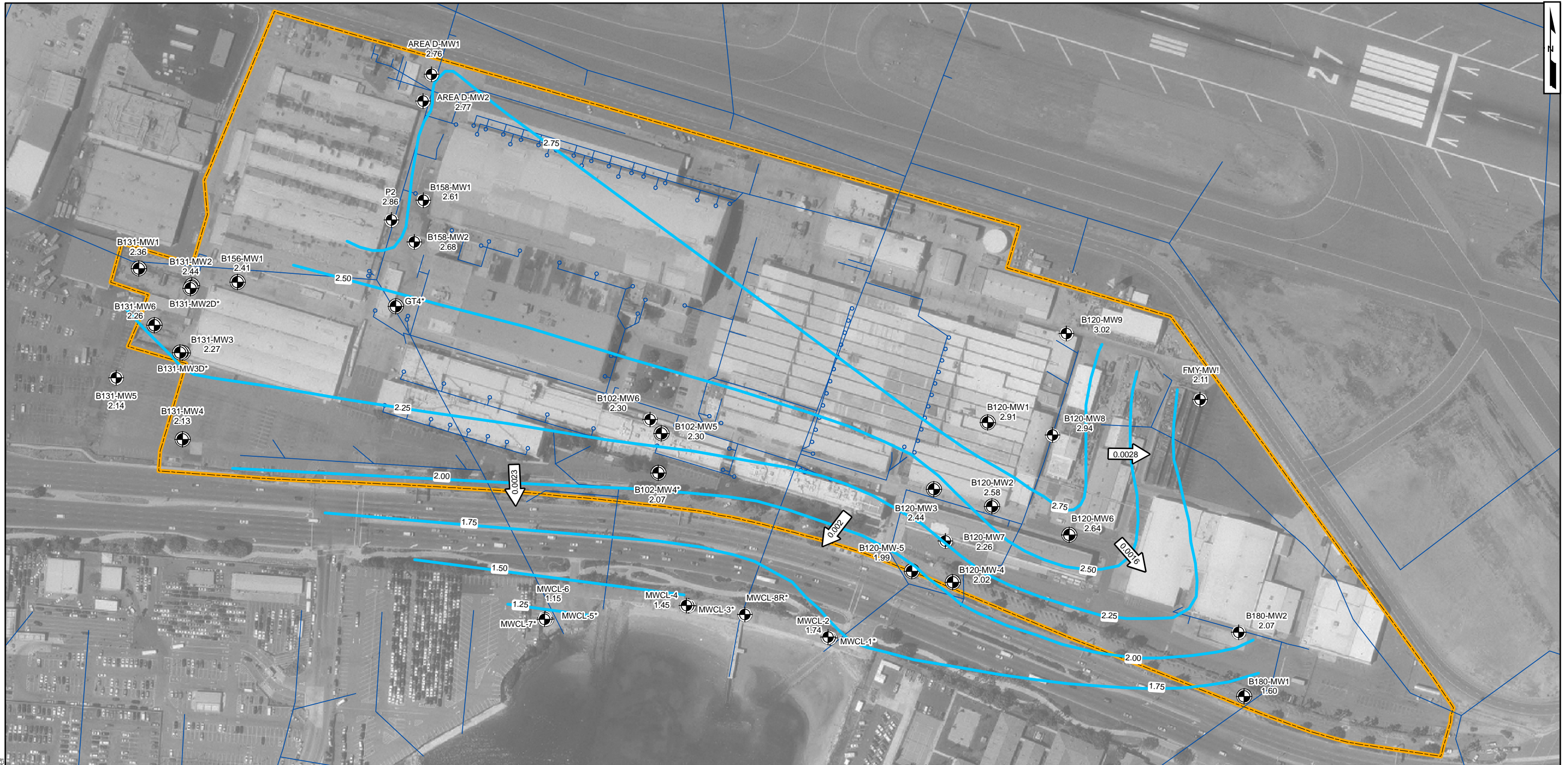
ng/L - nanograms per liter

* Field Analytical Result

FIGURES



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Legend

- Monitor Well With Groundwater (Elevation in Feet Above Mean Sea Level)
- Approximate Groundwater Flow Direction and Hydraulic Gradient (Ft/Ft)
- Groundwater Elevation Contour (Contour Interval 0.25 Feet)
- Storm Water Conveyance System
- Site Boundary

* - Well not used in groundwater contouring
 Water levels gauged on 20 July 2009 from 8:00 AM to 10:00 AM

200 100 0 200 Feet

Groundwater Elevations and Flow Direction
 2701 North Harbor Drive
 San Diego, California

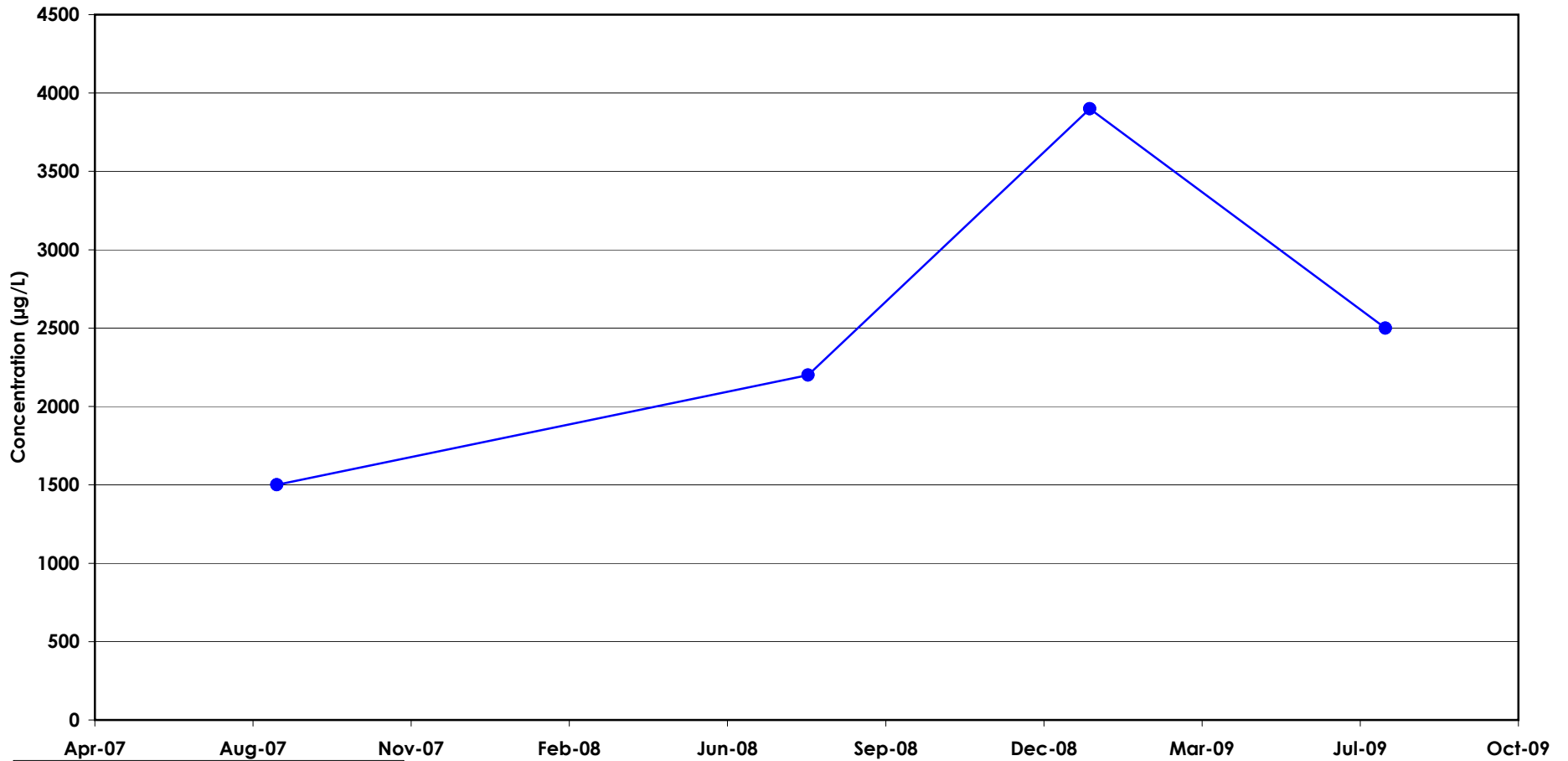
Geosyntec
 consultants

San Diego	September 2009
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Figure
2

X:\GIS\tdv\FIG1_3008_gw_flow.mxd\SC0307_091608.clicder

APPENDIX A
MRP Time Series Plots



—○— C6-C44 Total

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW1 Time-Series Graph for TPH

2701 North Harbor Drive
San Diego, California

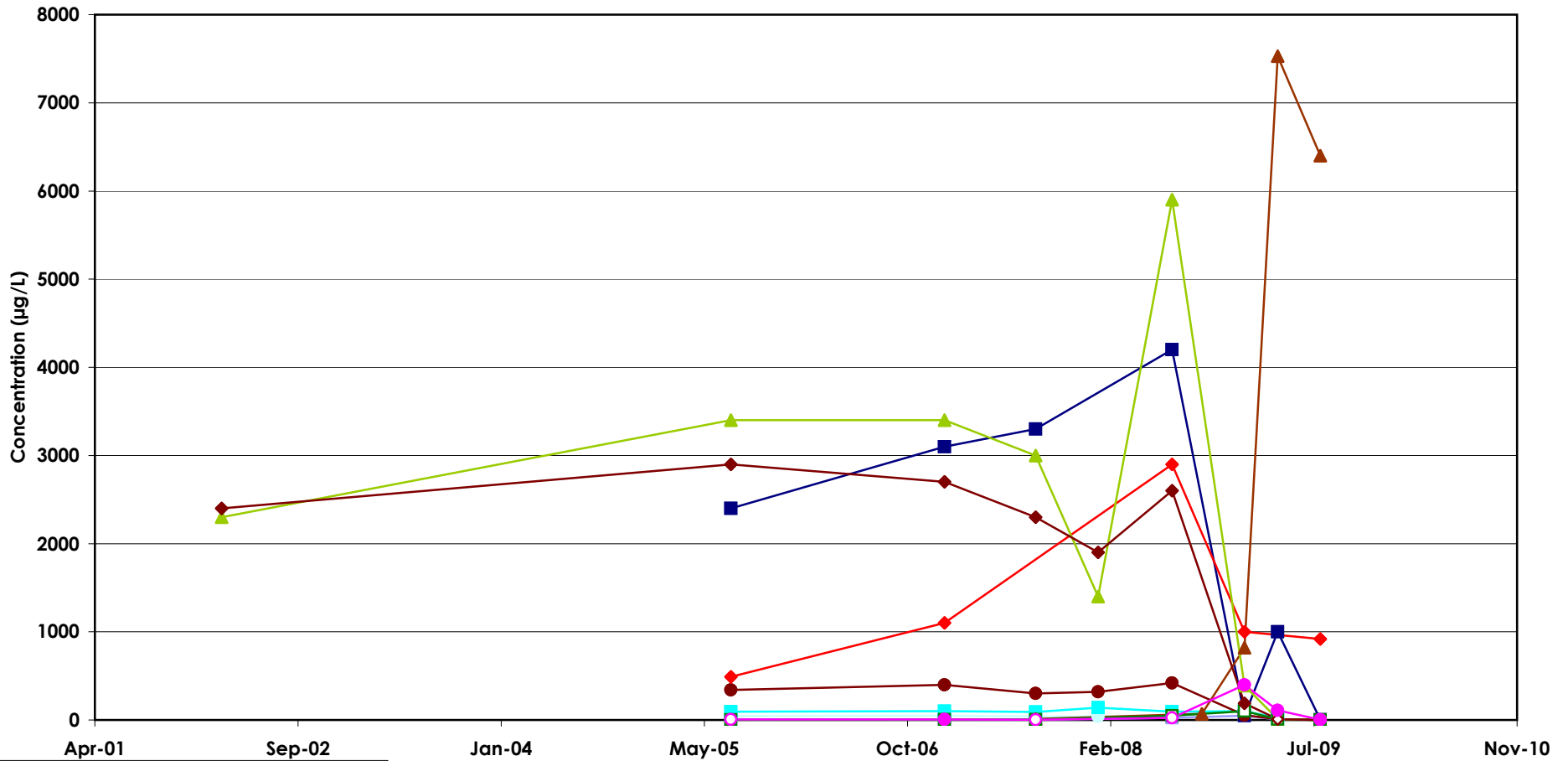


Figure

A-1

San Diego

March 2009



C:\Project\TDY\TDY_3_2009_48\Data_PCBC_MWCL-8

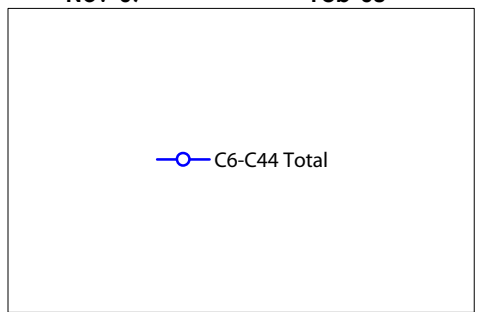
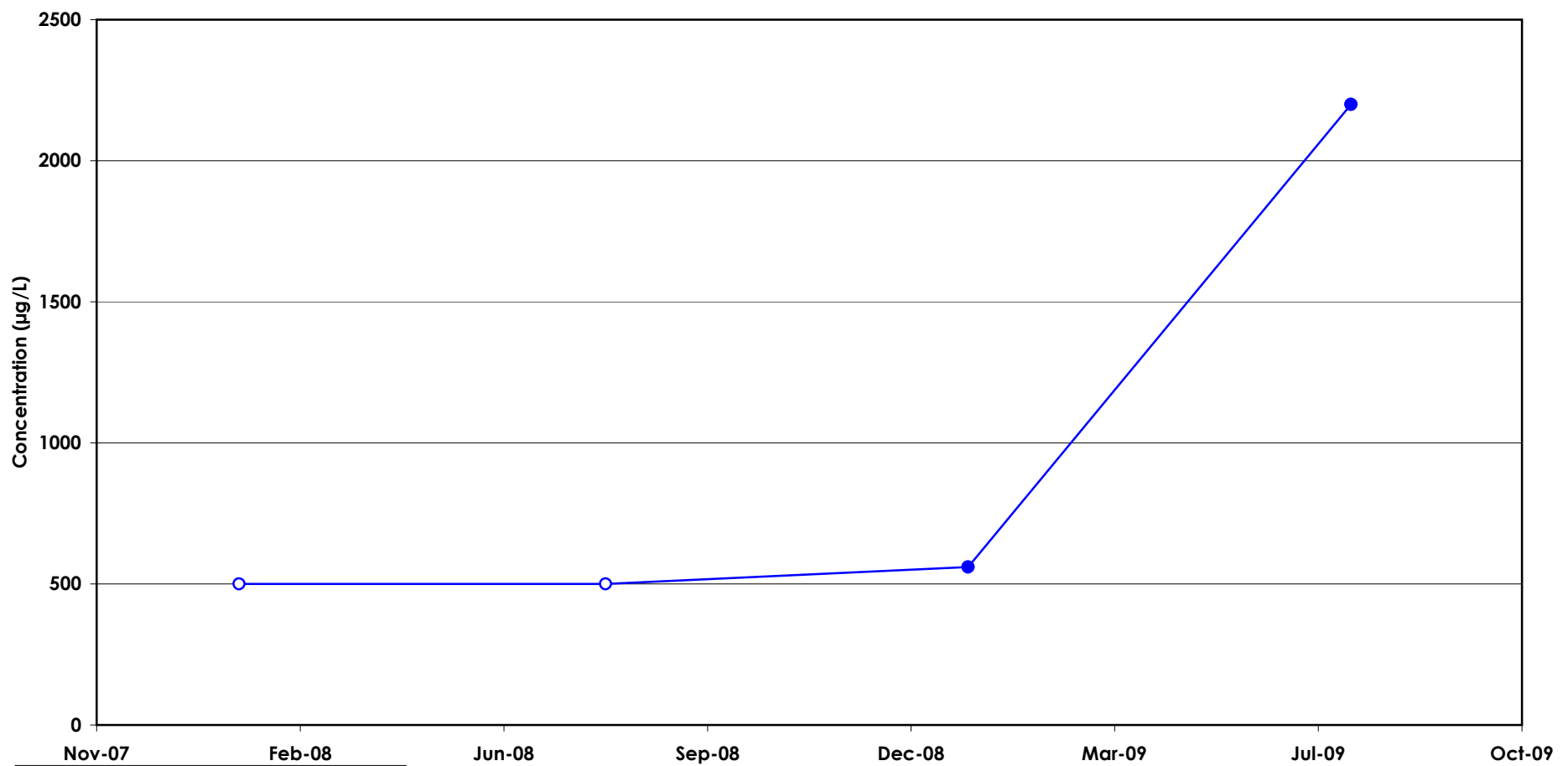
- 1,1-Dichloroethane (1,1-DCA)
- 1,2-Dichloroethane (EDC)
- trans-1,2-Dichloroethene
- cis-1,2-Dichloroethene
- 1,1-Dichloroethene (1,1-DCE)
- ◇ 1,4-Dioxane
- △ Methane
- △ Tetrachloroethene (PCE)
- 1,1,2-Trichloroethane
- ◇ Trichloroethene (TCE)
- Vinyl chloride

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW1 Time-Series Graph for VOCs 2701 North Harbor Drive San Diego, California	
	
San Diego	March 2009

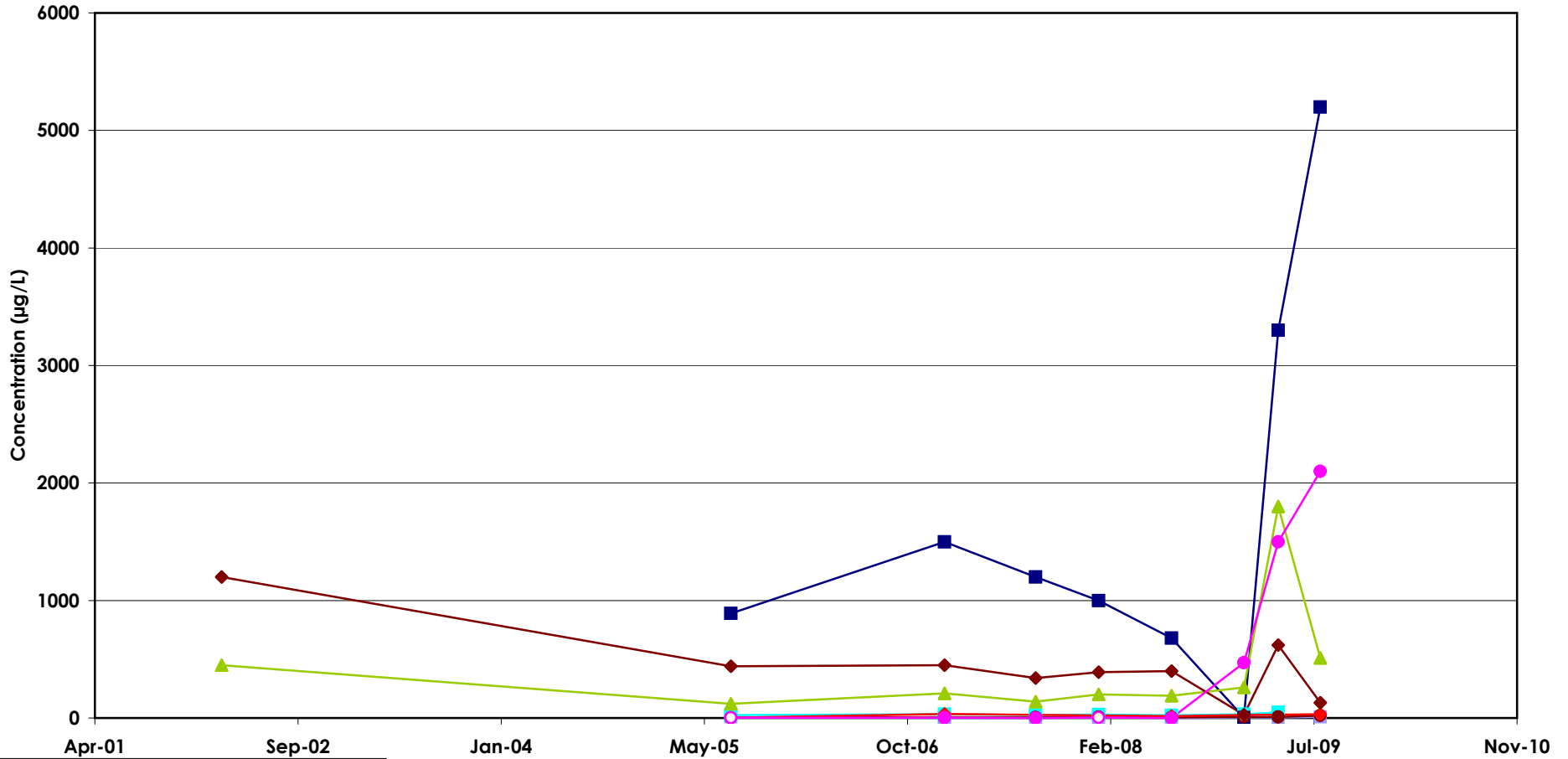
Figure
A-2

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Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW2 Time-Series Graph for TPH 2701 North Harbor Drive San Diego, California	
San Diego	March 2009
Figure A-3	



- 1,2-Dichloroethane (EDC)
- trans-1,2-Dichloroethene
- cis-1,2-Dichloroethene
- 1,1-Dichloroethene (1,1-DCE)
- ◇ 1,4-Dioxane
- △ Tetrachloroethene (PCE)
- ◇ Trichloroethene (TCE)
- Vinyl chloride

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW2 Time-Series Graph for VOCs
 2701 North Harbor Drive
 San Diego, California



Figure

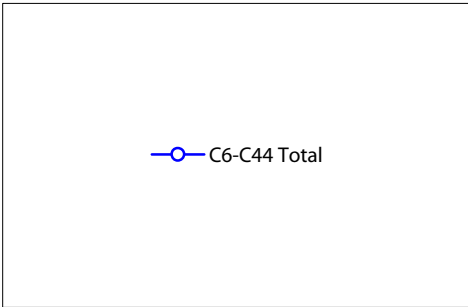
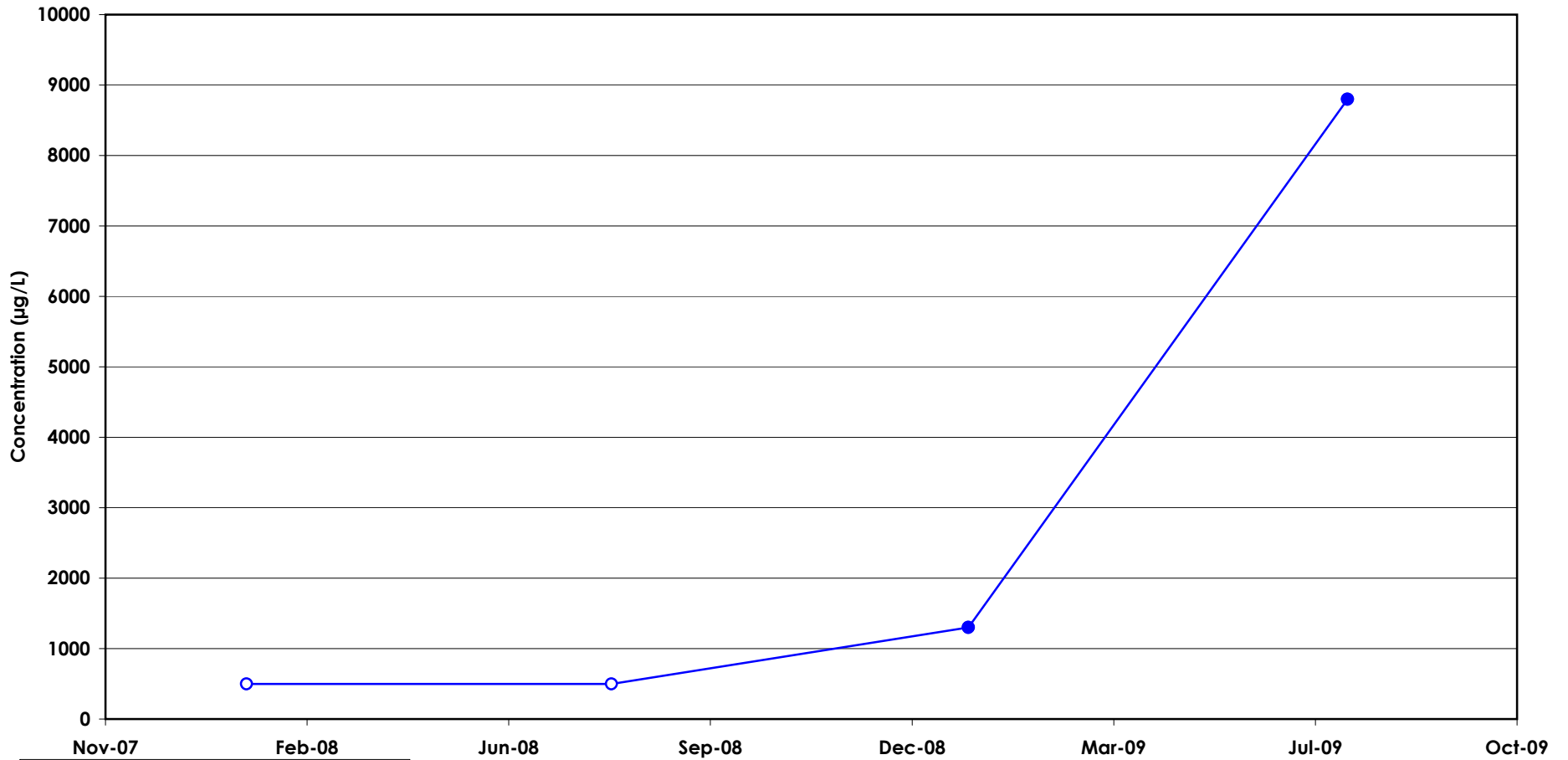
A-4

San Diego

March 2009

C:\Project\TDV\TDV_3_2009_08\Data_PCE_MWCL-8

C:\Project\TDY\TDY_4_3_2009_48\Data_PCBC_MWCL-8



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW3 Time-Series Graph for TPH

2701 North Harbor Drive
San Diego, California

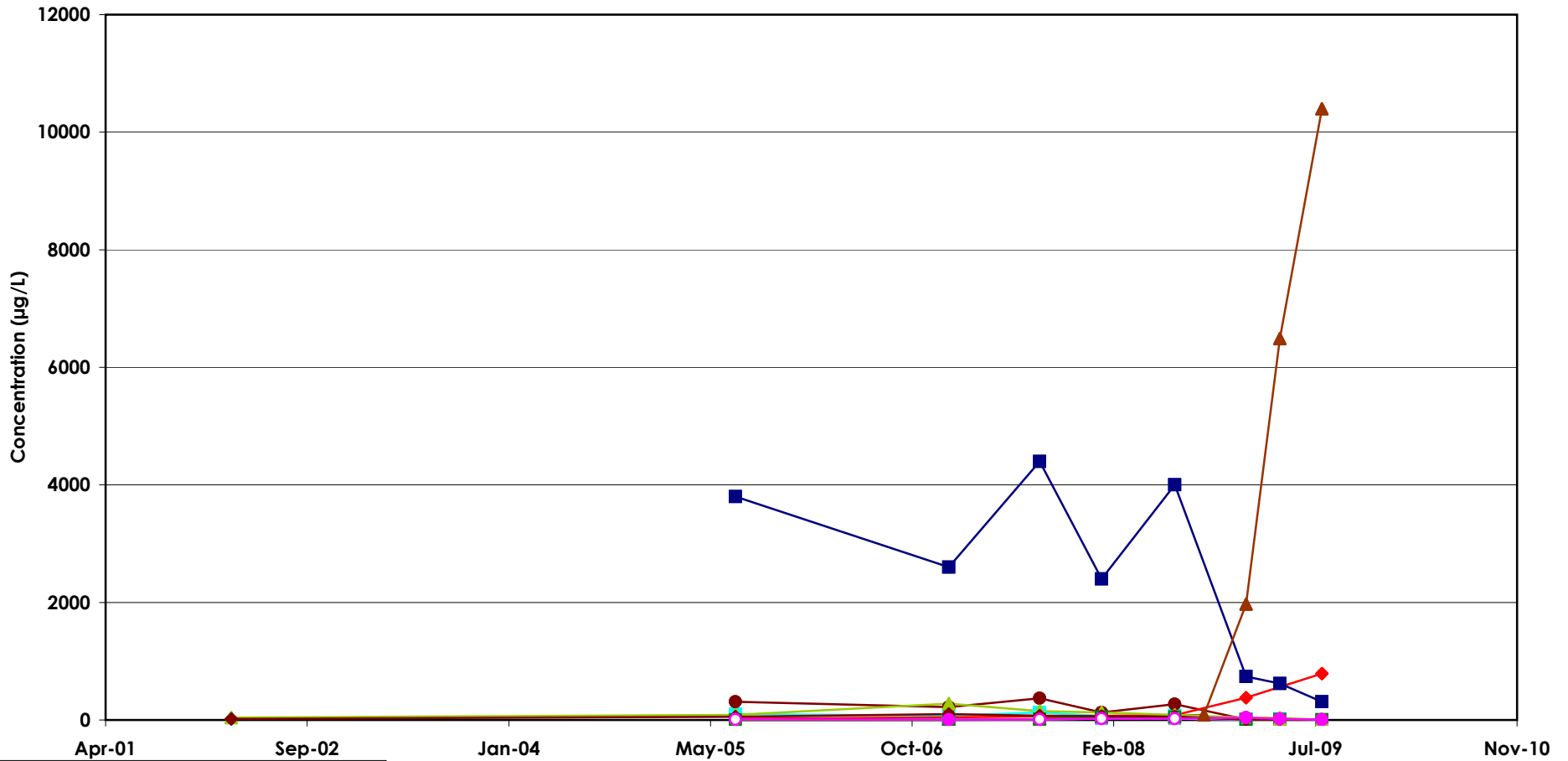


Figure

A-5

San Diego

March 2009



- 1,1-Dichloroethane (1,1-DCA)
- 1,2-Dichloroethane (EDC)
- trans-1,2-Dichloroethene
- cis-1,2-Dichloroethene
- 1,1-Dichloroethane (1,1-DCE)
- ◇ 1,4-Dioxane
- △ Methane
- △ Tetrachloroethene (PCE)
- 1,1,2-Trichloroethane
- △ 1,1,1-Trichloroethane (TCA)
- ◇ Trichloroethene (TCE)
- Vinyl chloride

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW3 Time-Series Graph for VOCs
 2701 North Harbor Drive
 San Diego, California

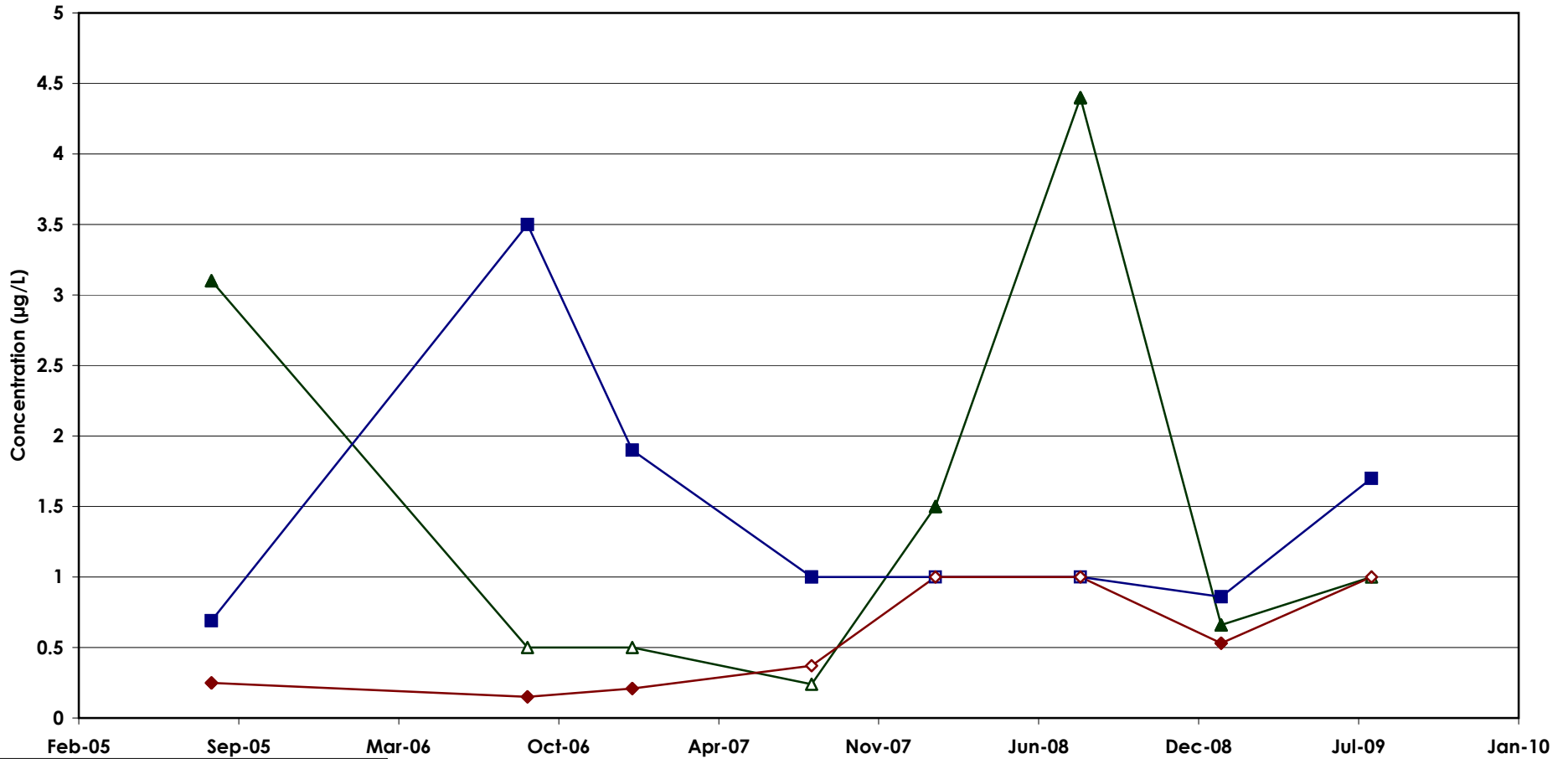


Figure

A-6

San Diego

March 2009



- △— Chloroform
- cis-1,2-Dichloroethene
- ◇— Trichloroethene (TCE)

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW5 Time-Series Graph for VOCs

2701 North Harbor Drive
San Diego, California

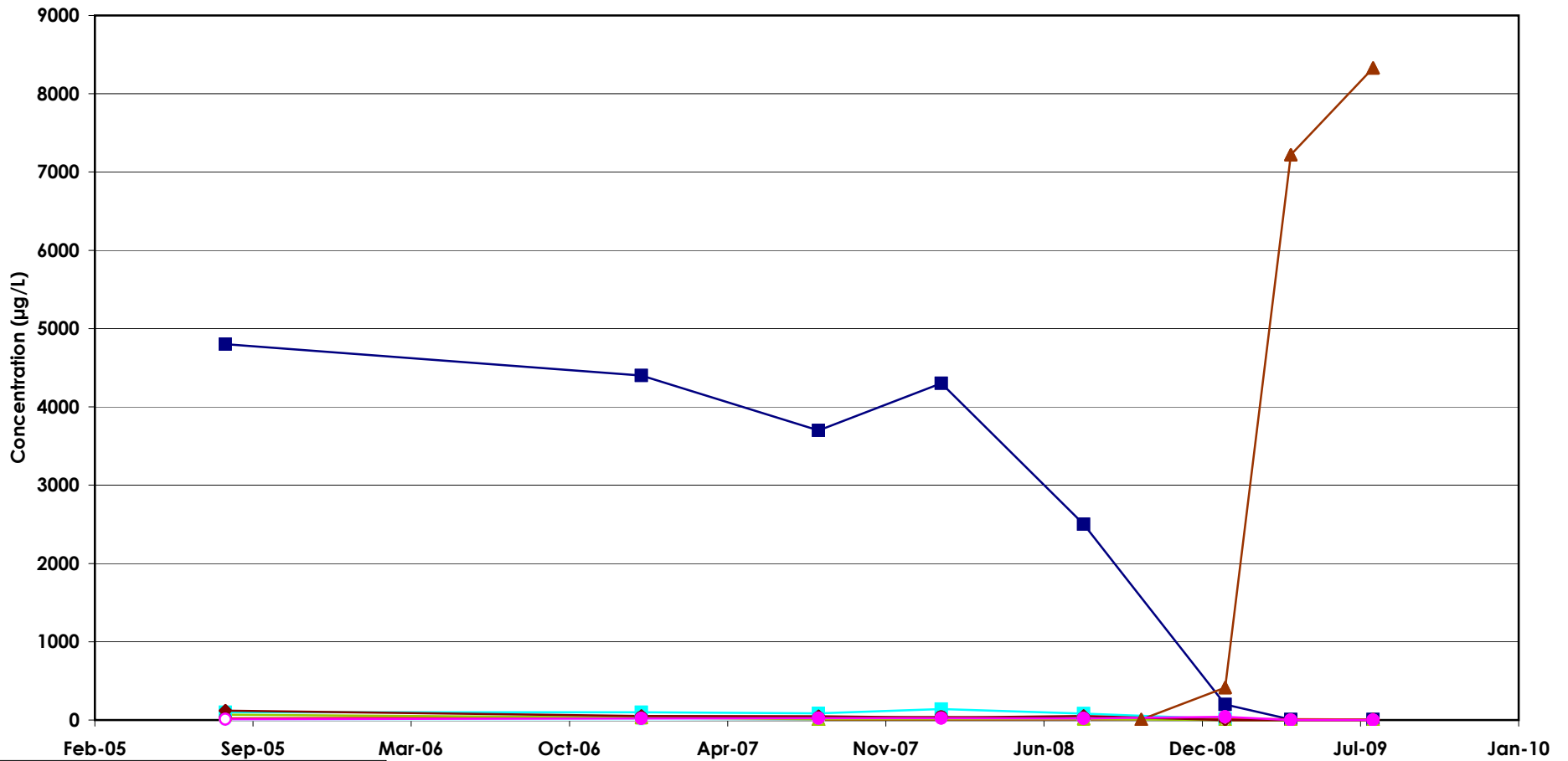


Figure

A-7

San Diego

March 2009



- 1,1-Dichloroethane (1,1-DCA)
- trans-1,2-Dichloroethene
- cis-1,2-Dichloroethene
- 1,1-Dichloroethene (1,1-DCE)
- ◇ 1,4-Dioxane
- △ Methane
- △ Tetrachloroethene (PCE)
- ◇ Trichloroethene (TCE)
- Vinyl chloride

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW6 Time-Series Graph for VOCs

2701 North Harbor Drive
San Diego, California

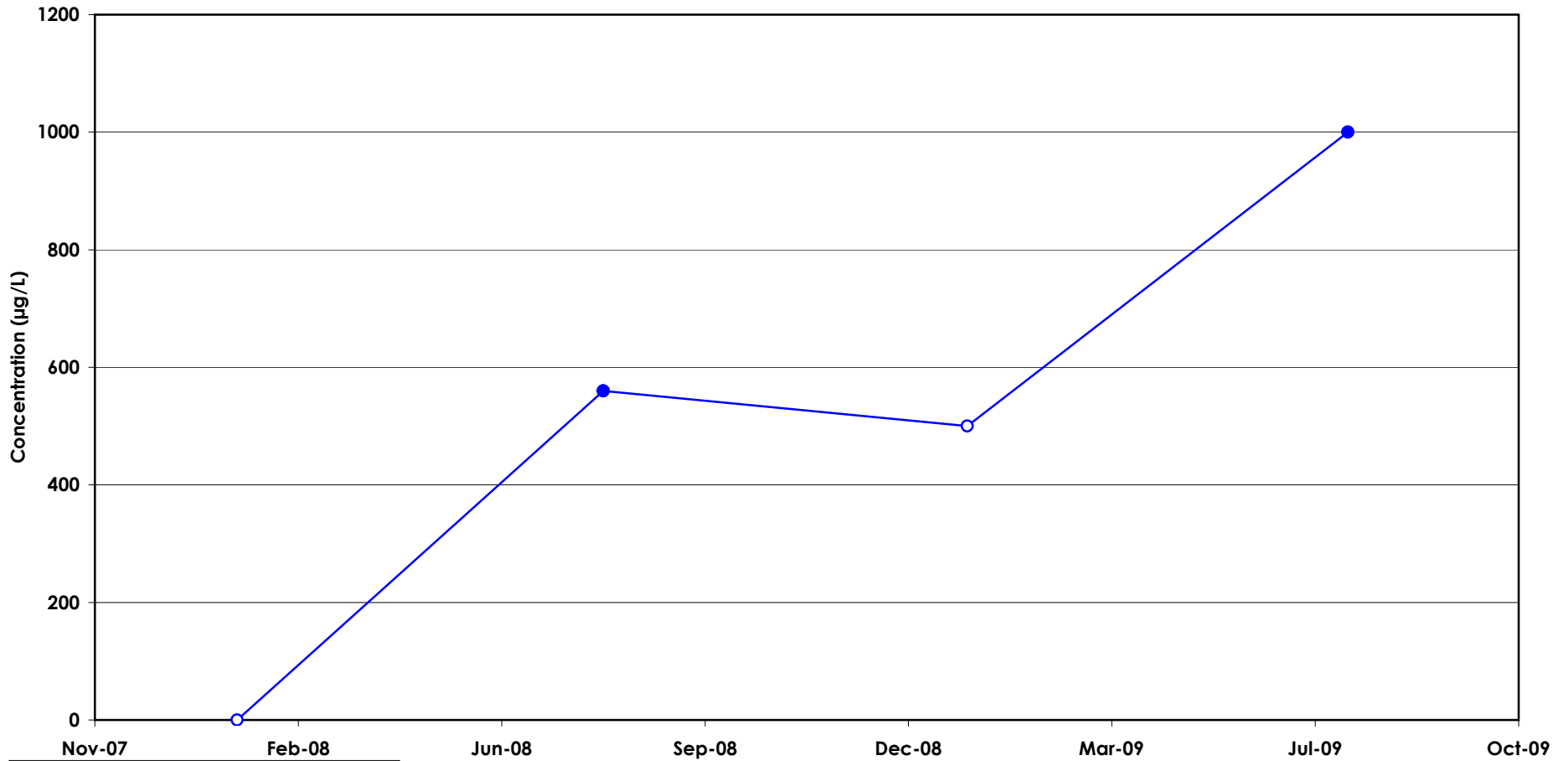


Figure

A-8

San Diego

March 2009



—○— C6-C44 Total

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD120-MW6 Time-Series Graph for TPH

2701 North Harbor Drive
San Diego, California



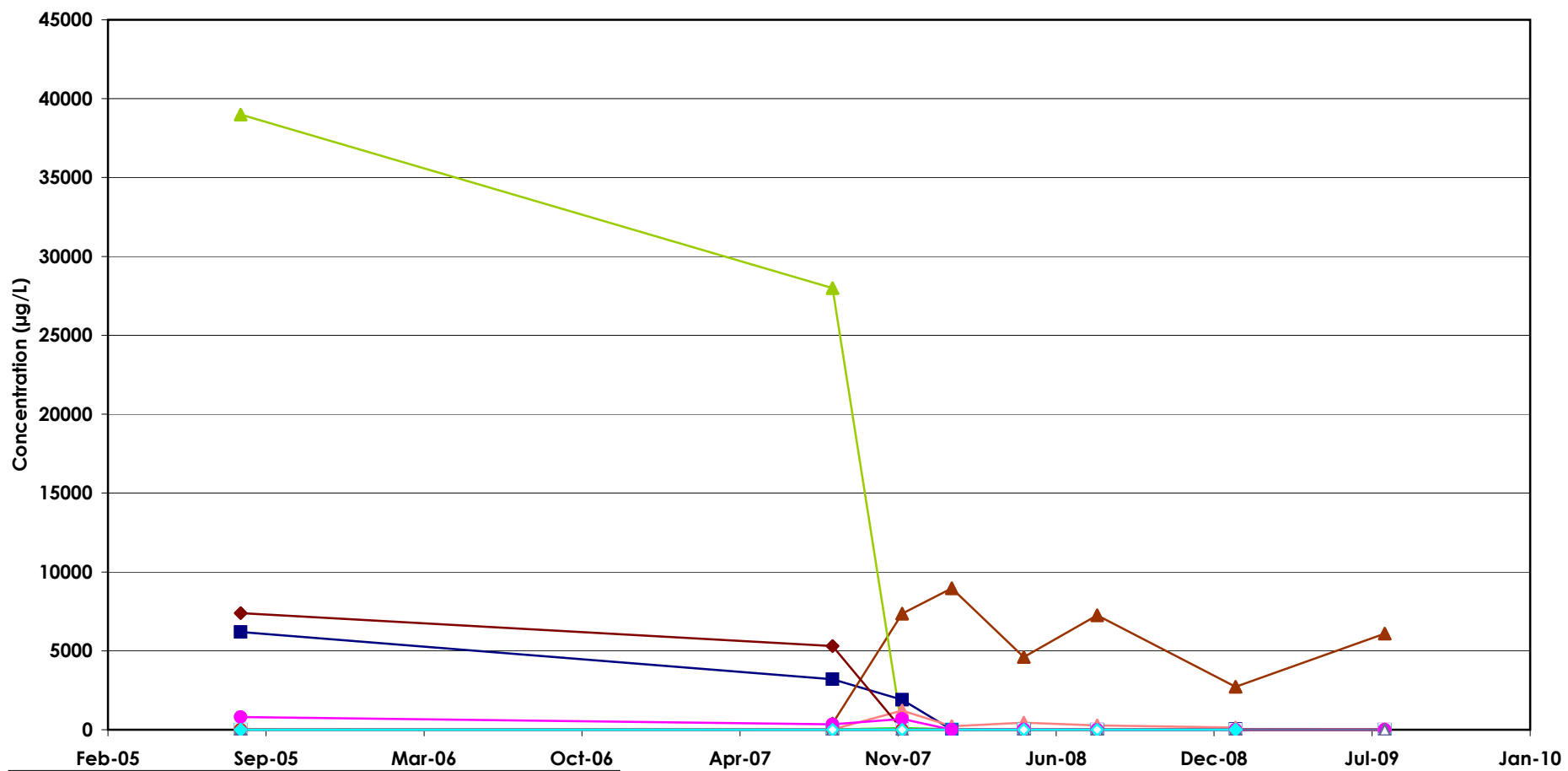
Figure

A-9

San Diego

March 2009

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- Carbon disulfide
- 2-Chlorotoluene
- ◇ 1,2-Dichlorobenzene
- cis-1,2-Dichloroethene
- ▲ Ethane
- ◇ Ethylbenzene
- n-Propylbenzene
- Benzene
- 1,2,4-Trimethylbenzene
- Vinyl Chloride
- ◇ m,p-Xylenes
- Chlorobenzene
- 1,4-Dichlorobenzene
- trans-1,2-Dichloroethene
- ◇ 1,4-Dioxane
- △ Ethene
- ▲ Methane
- ▲ Tetrachloroethene (PCE)
- ◇ Trichloroethene (TCE)
- 1,3,5-Trimethylbenzene
- △ o-Xylene

the method
detection limit)

Monitor Well BLD131-MW2 Time-Series Graph for VOCs
2701 North Harbor Drive
San Diego, California

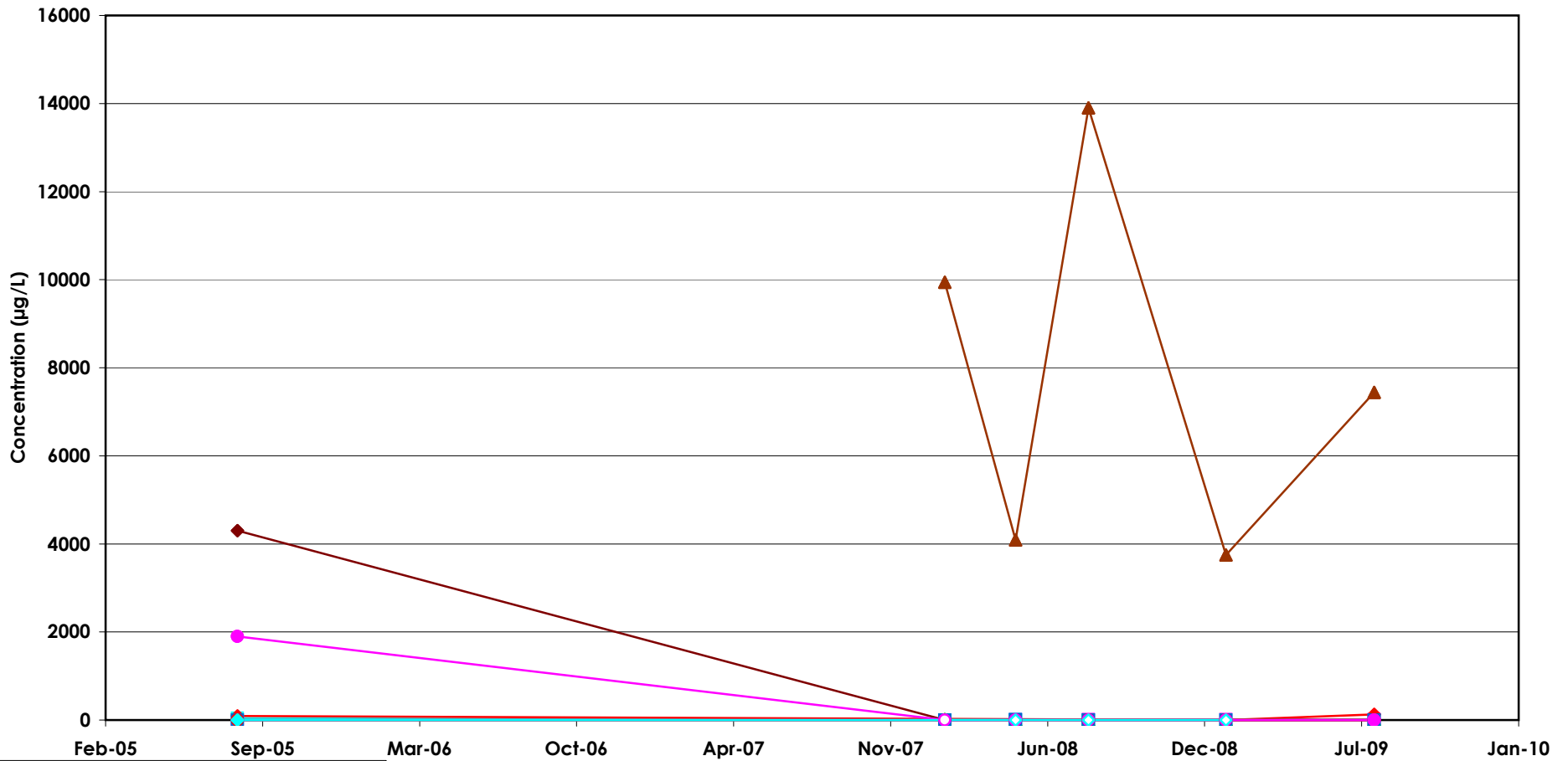


Figure

A-10

San Diego

March 2009



C:\Project\TDV\TDV_3_2009_08\Data_PCBC_MWCL-8

- Carbon disulfide
- 1,4-Dichlorobenzene
- trans-1,2-Dichloroethene
- ◇ 1,4-Dioxane
- △ Ethane
- ▲ Methane
- n-Propylbenzene
- Benzene
- ◇ Trichloroethene (TCE)
- 1,3,5-Trimethylbenzene
- Vinyl Chloride
- ◇ m,p-Xylenes

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD131-MW3 Time-Series Graph for VOCs
 2701 North Harbor Drive
 San Diego, California

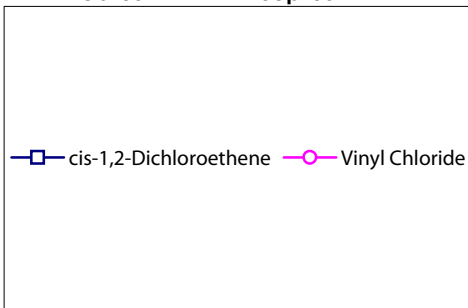
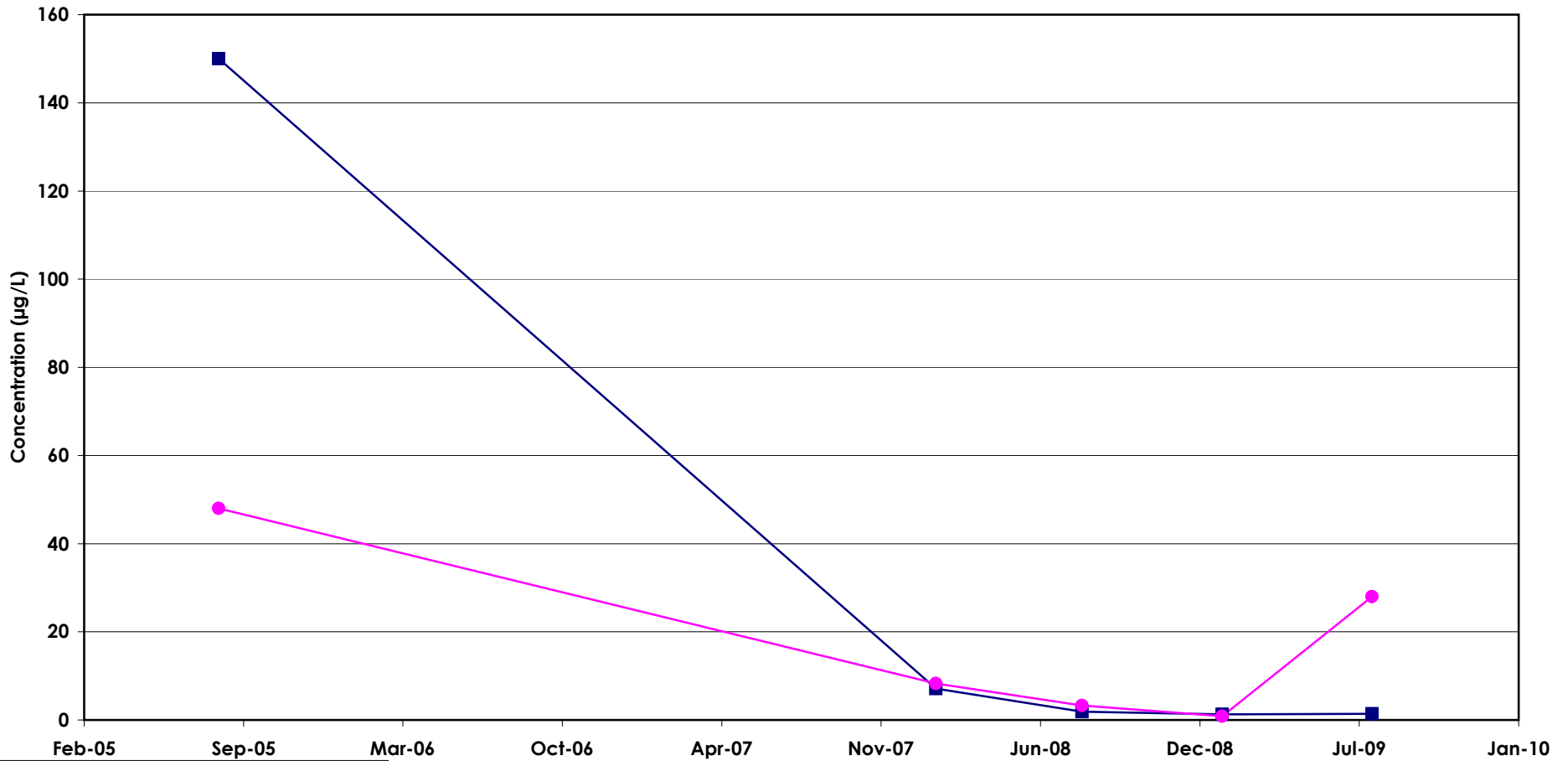


Figure

A-11

San Diego

March 2009



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD131-MW4 Time-Series Graph for VOCs
 2701 North Harbor Drive
 San Diego, California

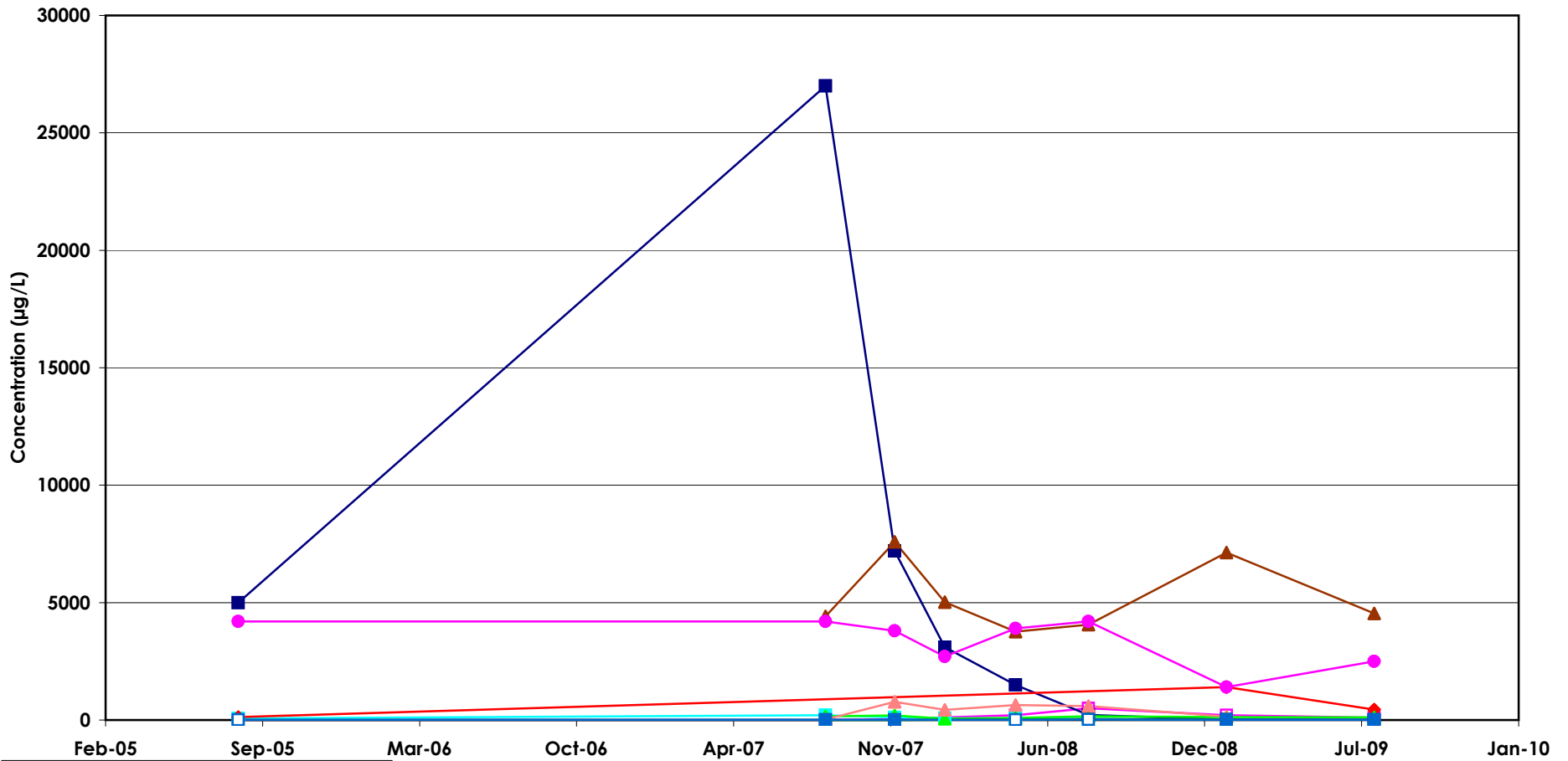


Figure

A-12

San Diego

March 2009



- Carbon disulfide
- trans-1,2-Dichloroethene
- cis-1,2-Dichloroethene
- ◇ 1,4-Dioxane
- △ Ethane
- △ Ethene
- △ Methane
- Methyl-Tert-Butyl Ether (MTBE)
- Benzene
- Vinyl Chloride

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD131-MW5 Time-Series Graph for VOCs
 2701 North Harbor Drive
 San Diego, California

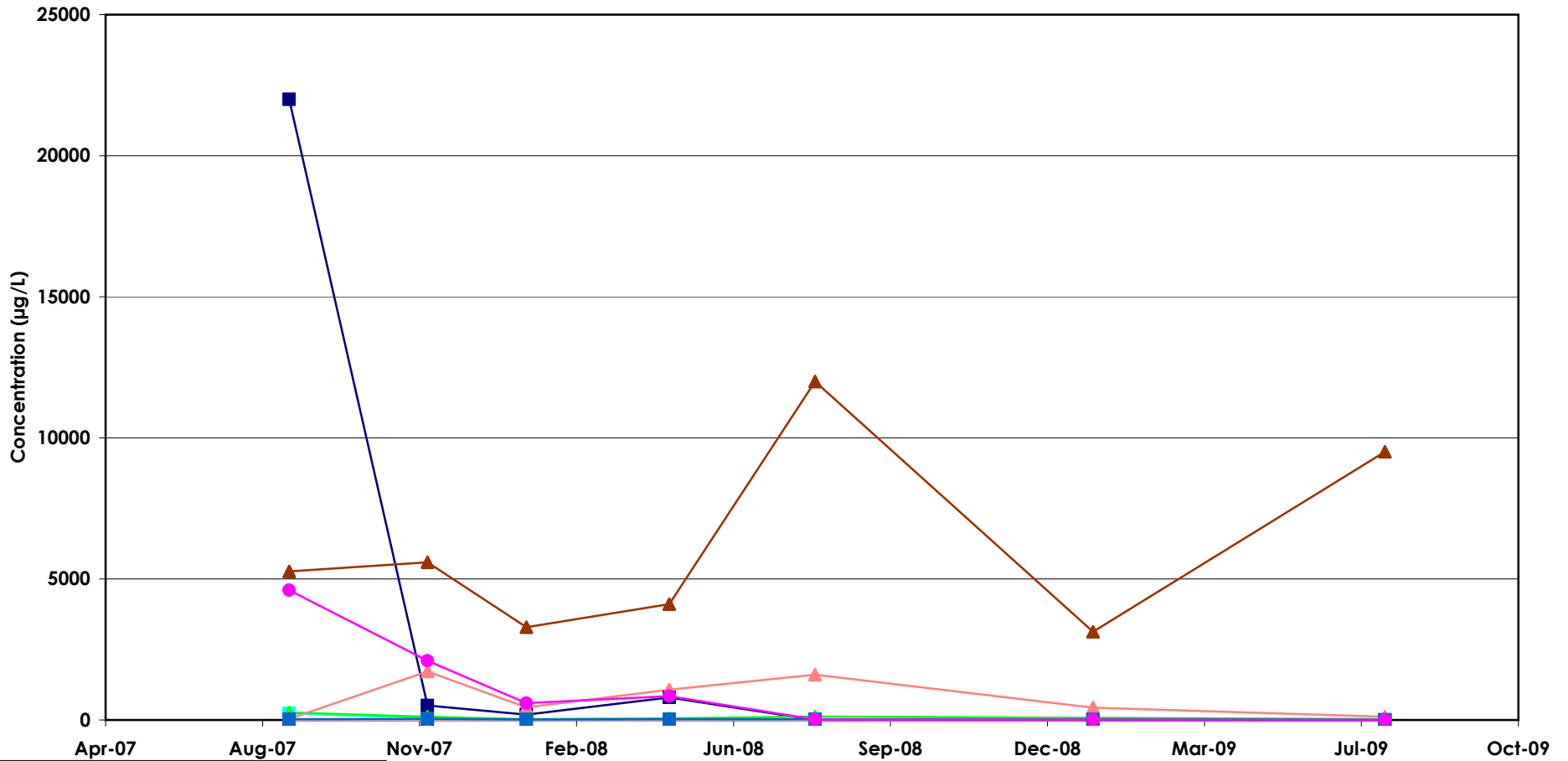


Figure

A-13

San Diego

March 2009



C:\Project\TDY\TDY_3_2009_08\Data_PCBC_MWCL-8

- Chlorobenzene
- 1,4-Dichlorobenzene
- ◇ 1,2-Dichlorobenzene
- trans-1,2-Dichloroethene
- cis-1,2-Dichloroethene
- △ Ethane
- △ Ethene
- △ Methane
- Toluene
- Benzene
- Vinyl chloride

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well BLD131-MW6 Time-Series Graph for VOCs
 2701 North Harbor Drive
 San Diego, California

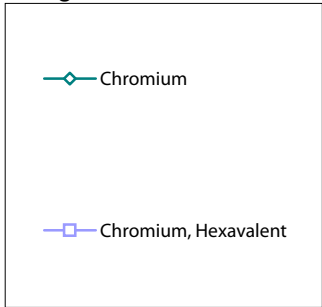
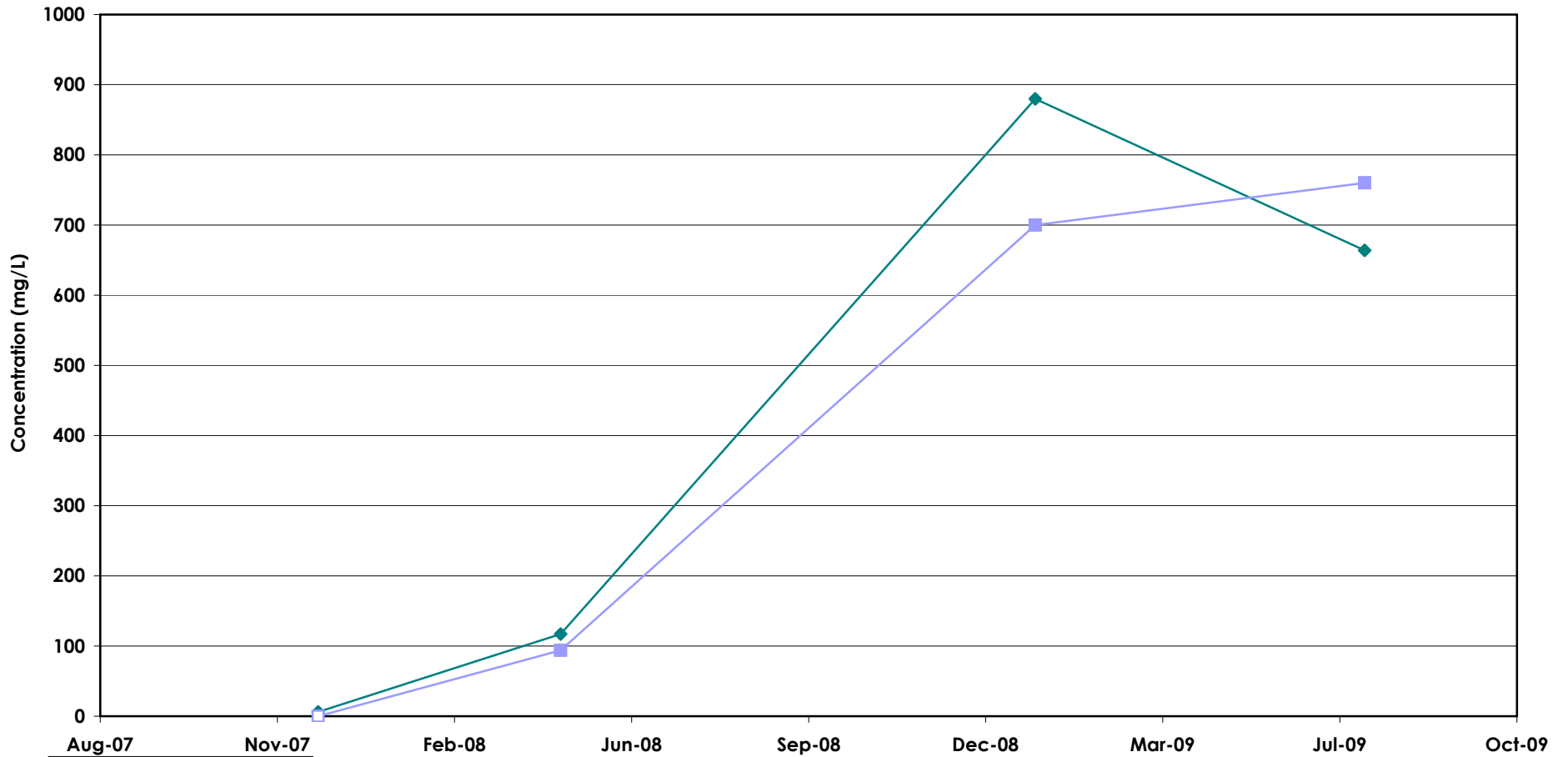


Figure

A-14

San Diego

March 2009



Open symbols represent non-detects (plotted at the method detection limit)

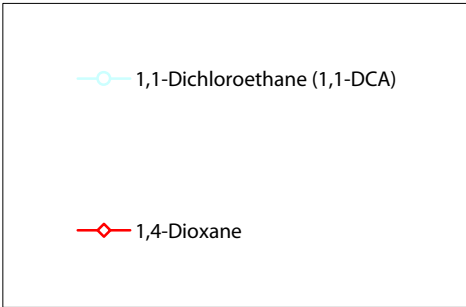
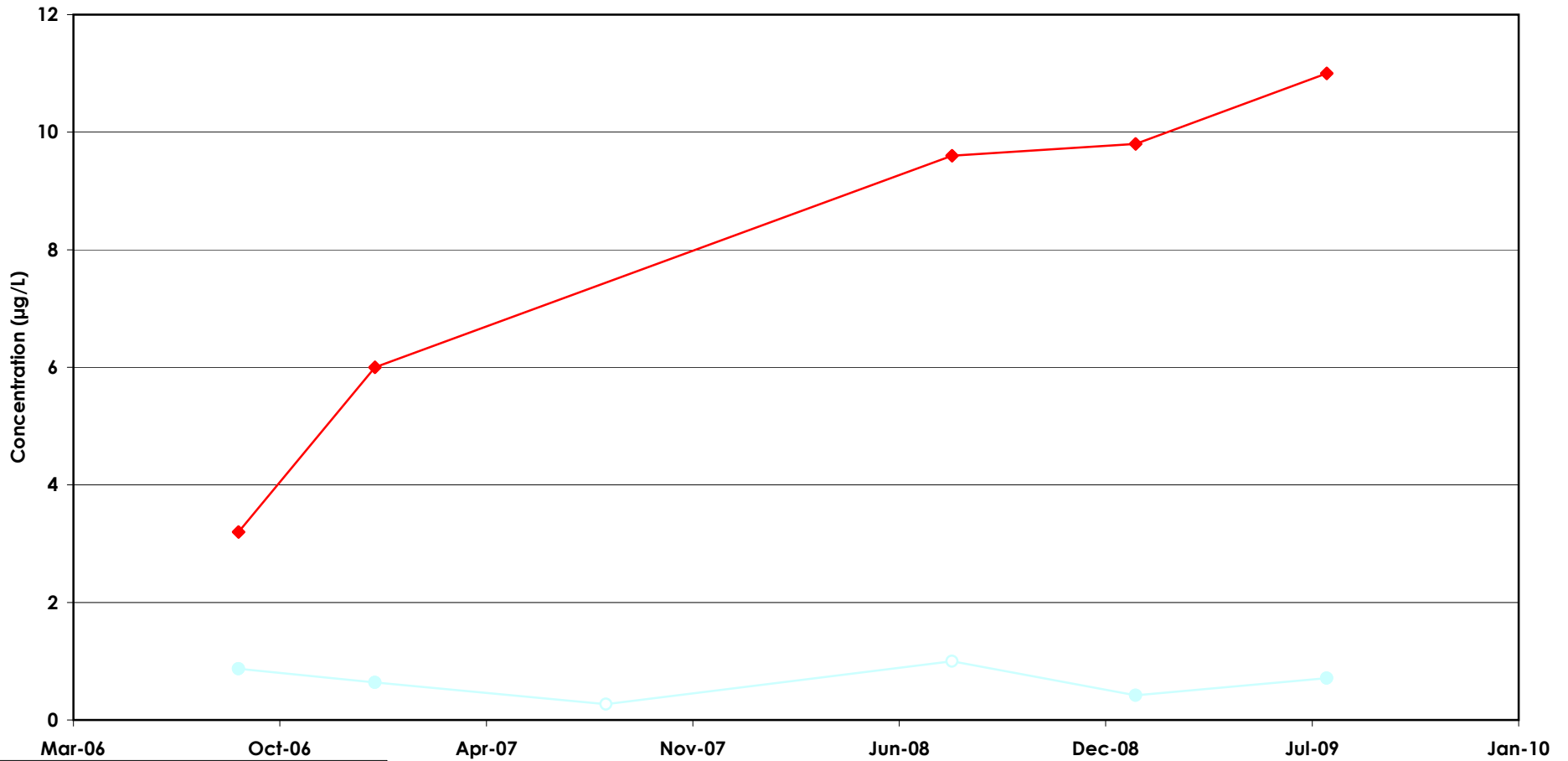
Monitor Well BLD158-MW1 Time-Series Graph for Metals
 2701 North Harbor Drive
 San Diego, California



Figure
A-15

San Diego

March 2009



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-1 Time-Series Graph for VOCs

2701 North Harbor Drive
San Diego, California

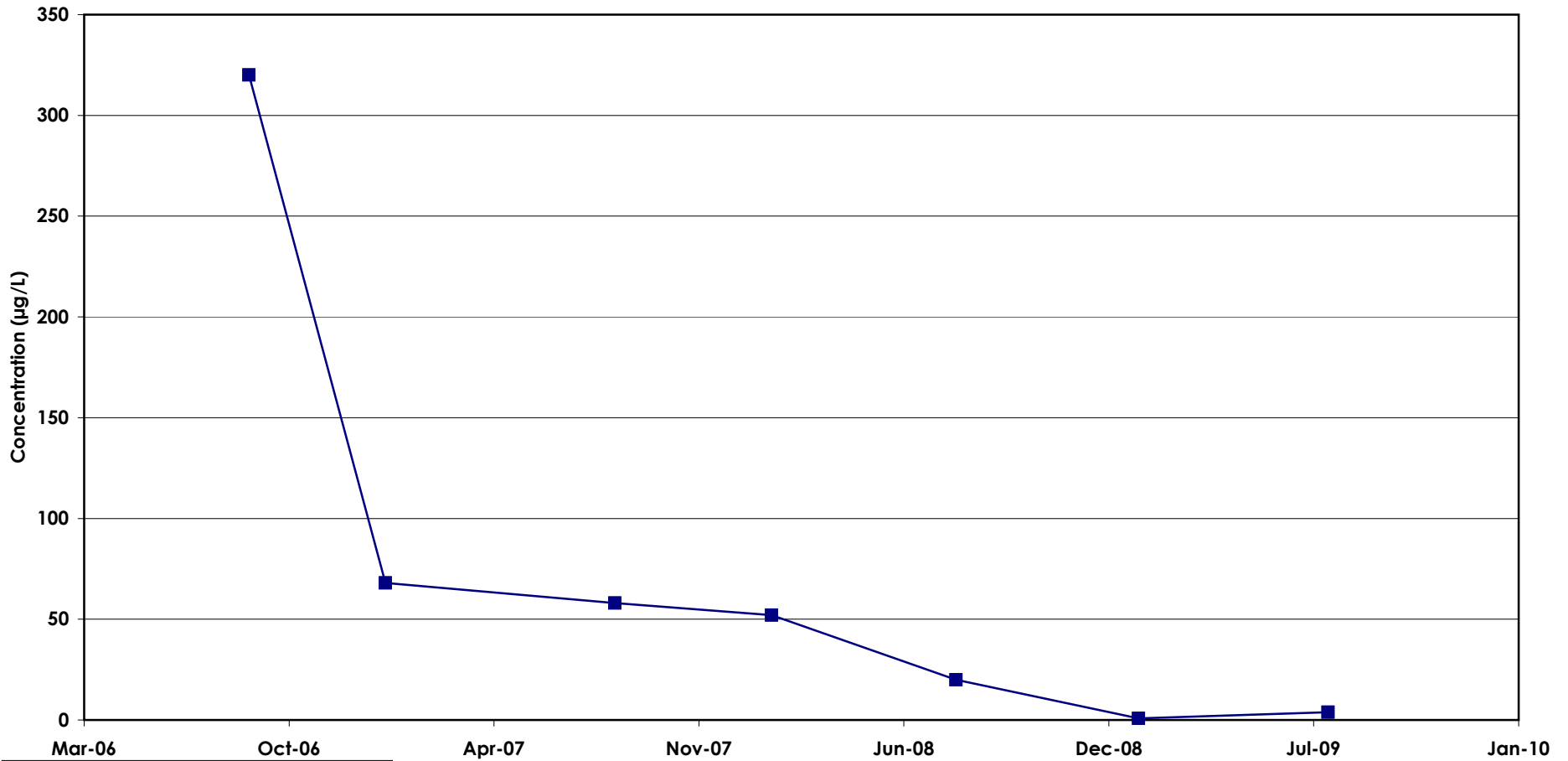


Figure

A-16

San Diego

March 2009



—□ cis-1,2-Dichloroethene

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-5 Time-Series Graph for VOCs

2701 North Harbor Drive
San Diego, California

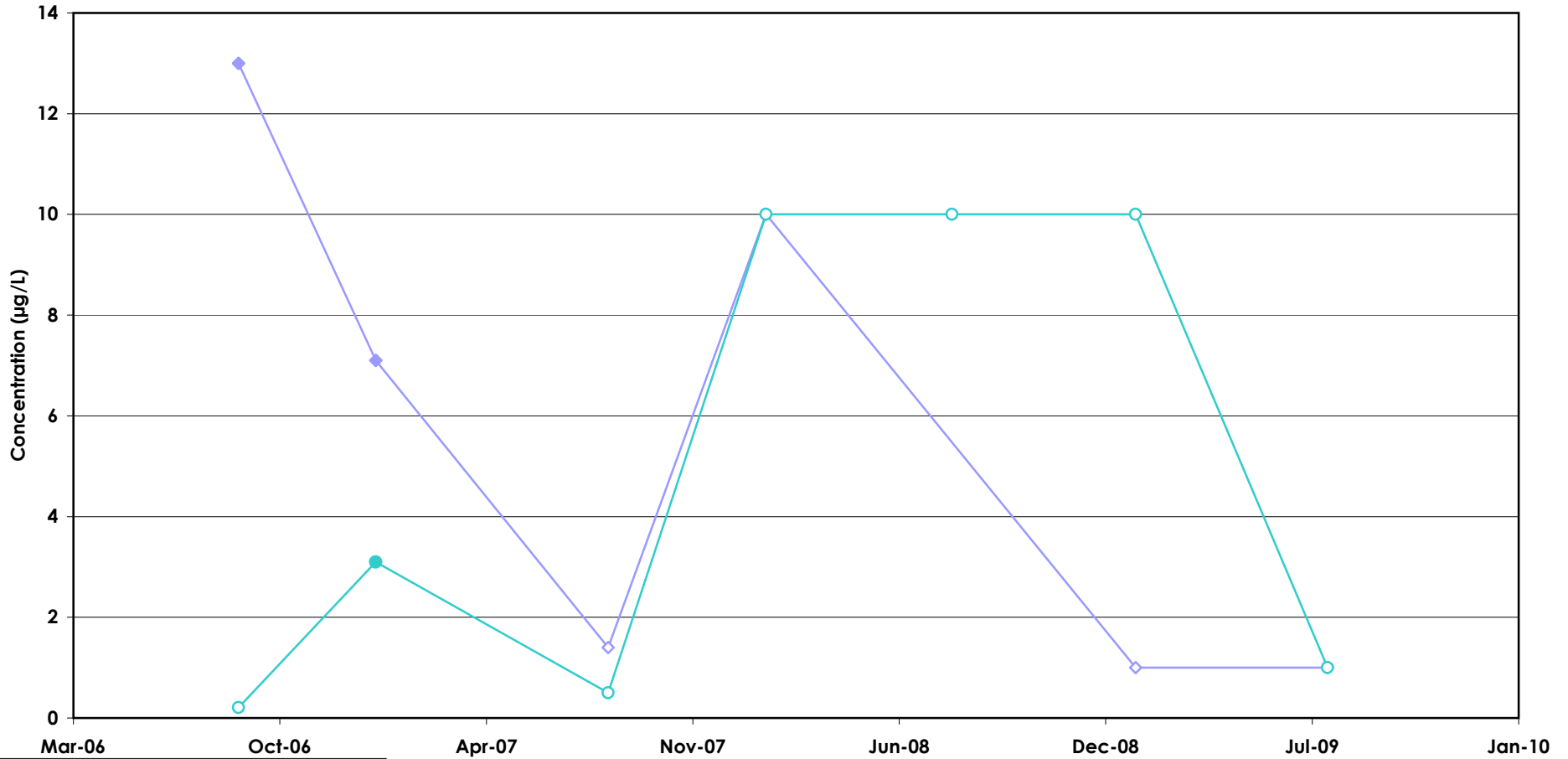
Geosyntec
consultants

Figure

A-17

San Diego

March 2009



◇ Acenaphthene ○ Naphthalene

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-6 Time-Series Graph for SVOCs

2701 North Harbor Drive
San Diego, California

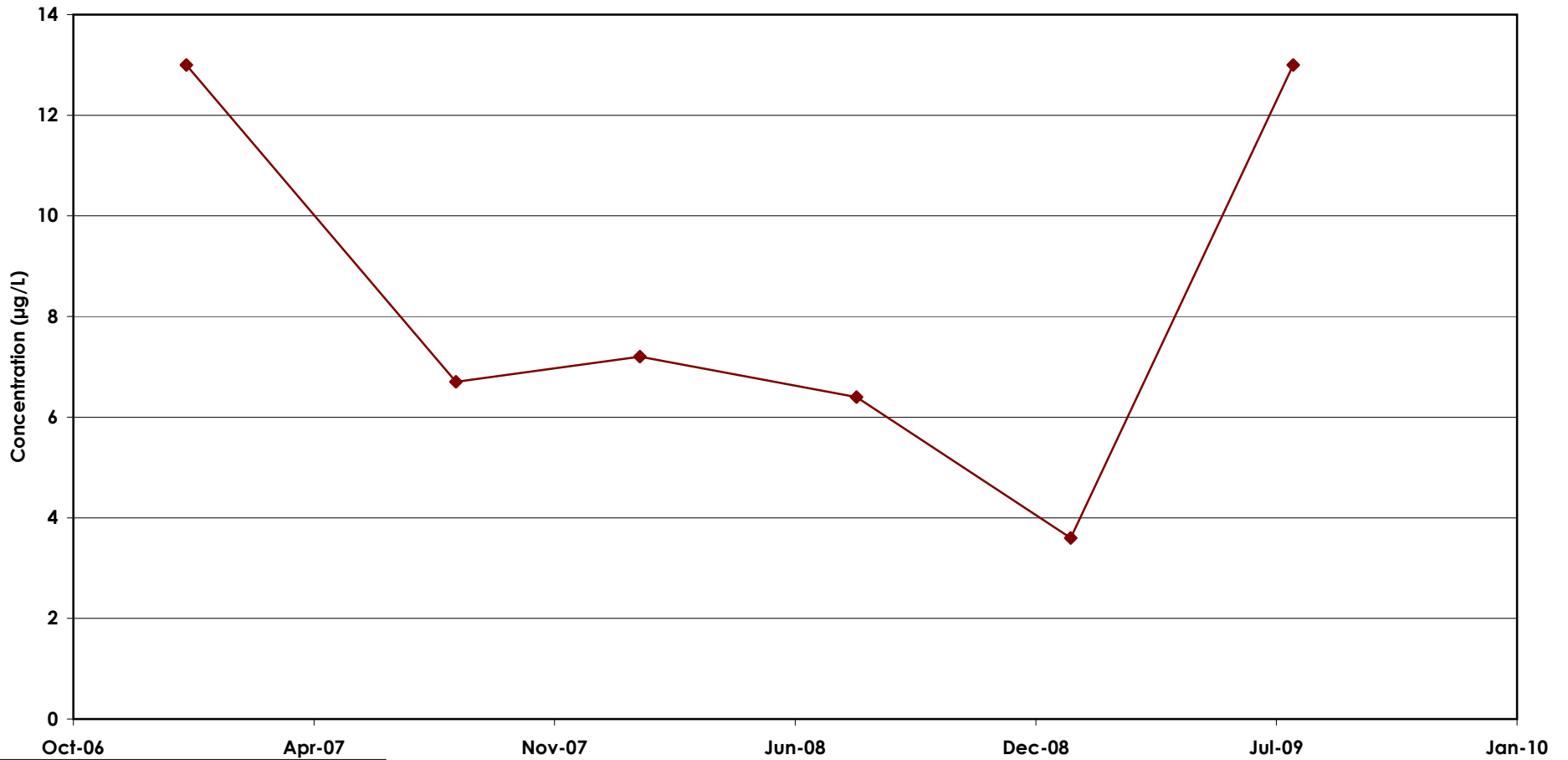


Figure

A-18

San Diego

March 2009



—◇— Trichloroethene (TCE)

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-7 Time-Series Graph for VOCs

2701 North Harbor Drive
San Diego, California

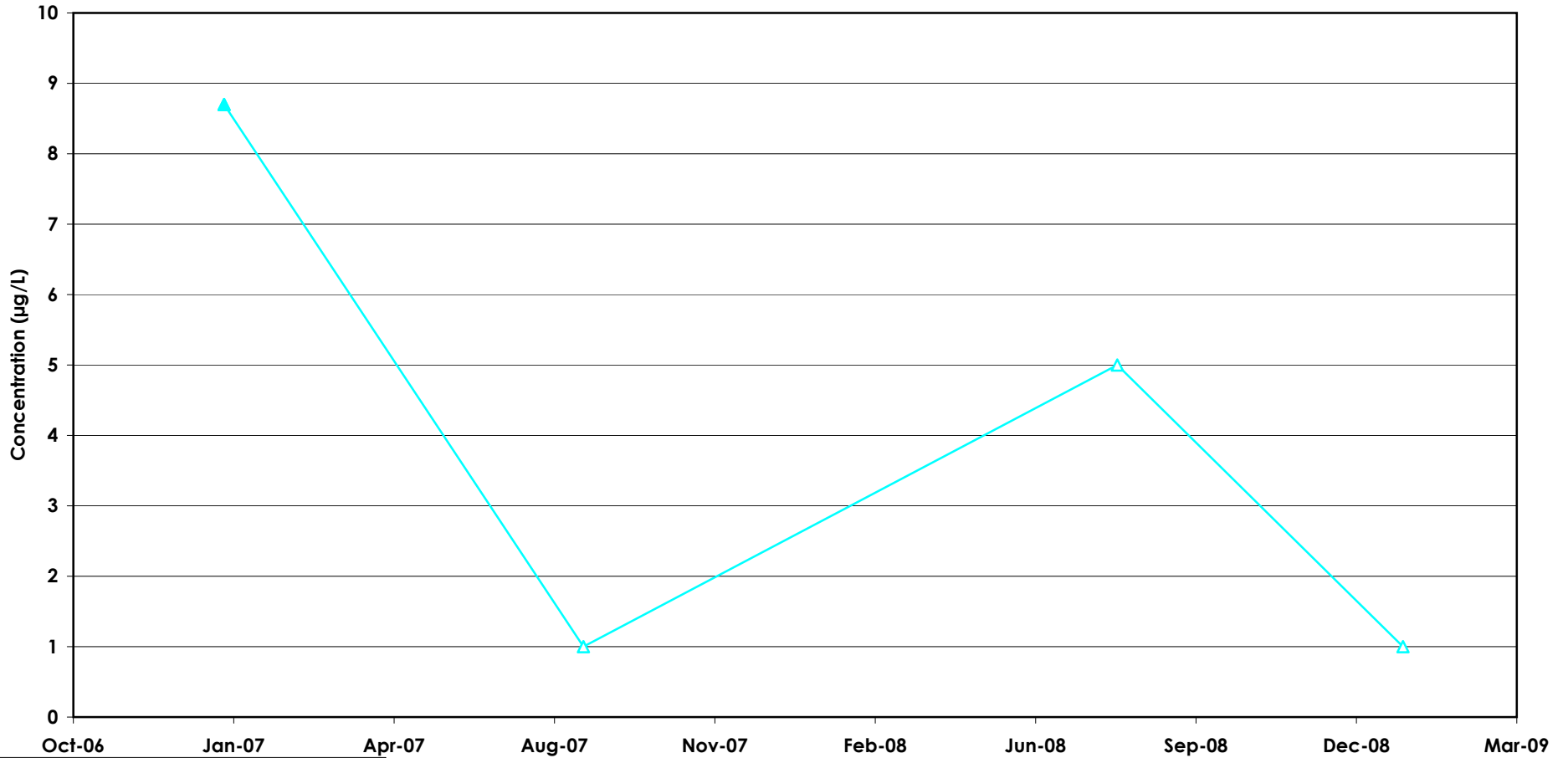
Geosyntec
consultants

Figure

A-19

San Diego

March 2009



—▲ Bis(2-Ethylhexyl) Phthalate

Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-8 Time-Series Graph for SVOCs

2701 North Harbor Drive
San Diego, California

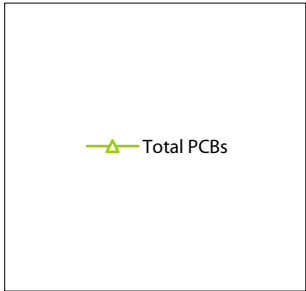
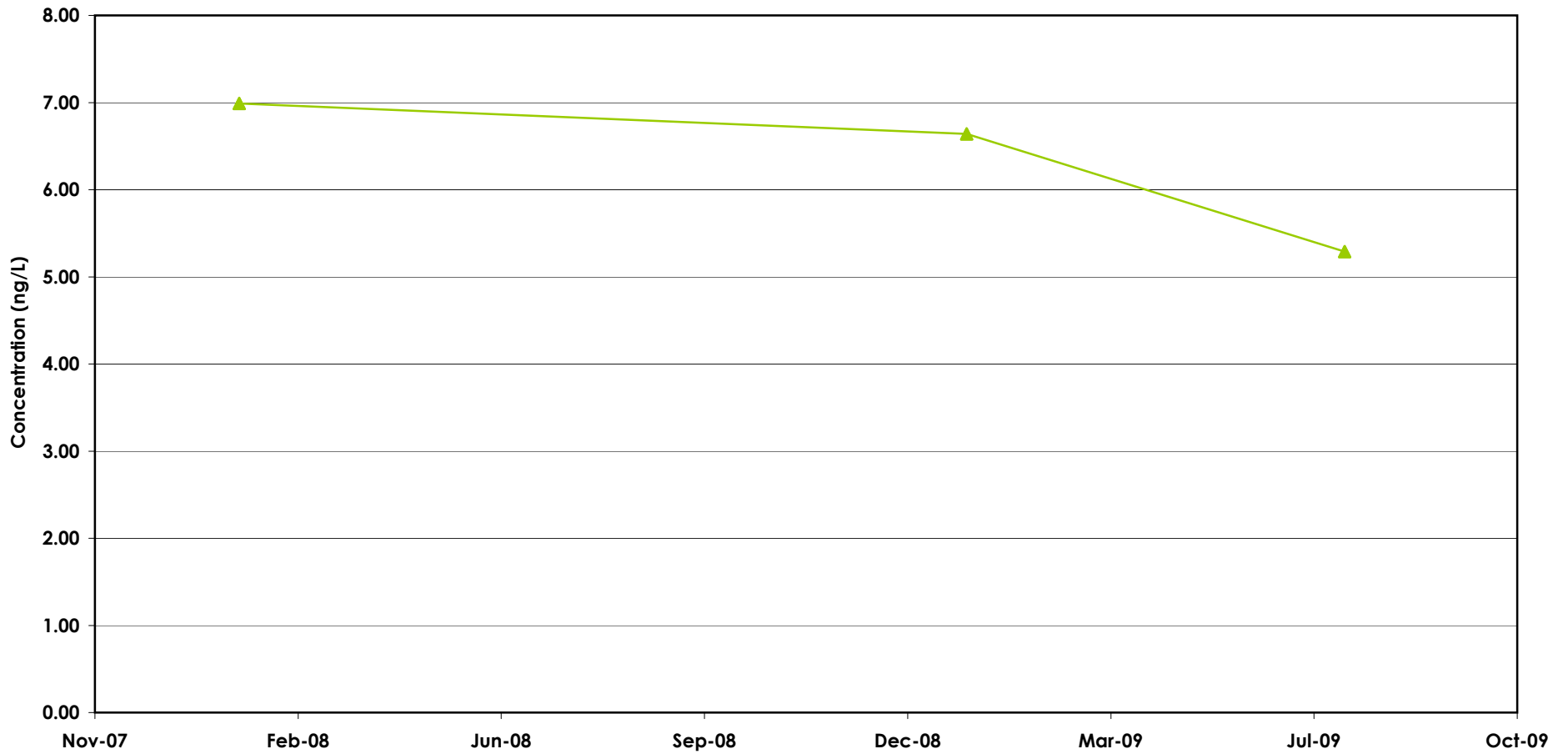


Figure

A-20

San Diego

March 2009



Open symbols represent non-detects (plotted at the method detection limit)

Monitor Well MWCL-8 Time-Series Graph for PCBs

2701 North Harbor Drive
San Diego, California



Figure

A-21

San Diego

March 2009

APPENDIX B
EISB Time Series Plots

Figure B-1
B131-MW2 (mMols/L)

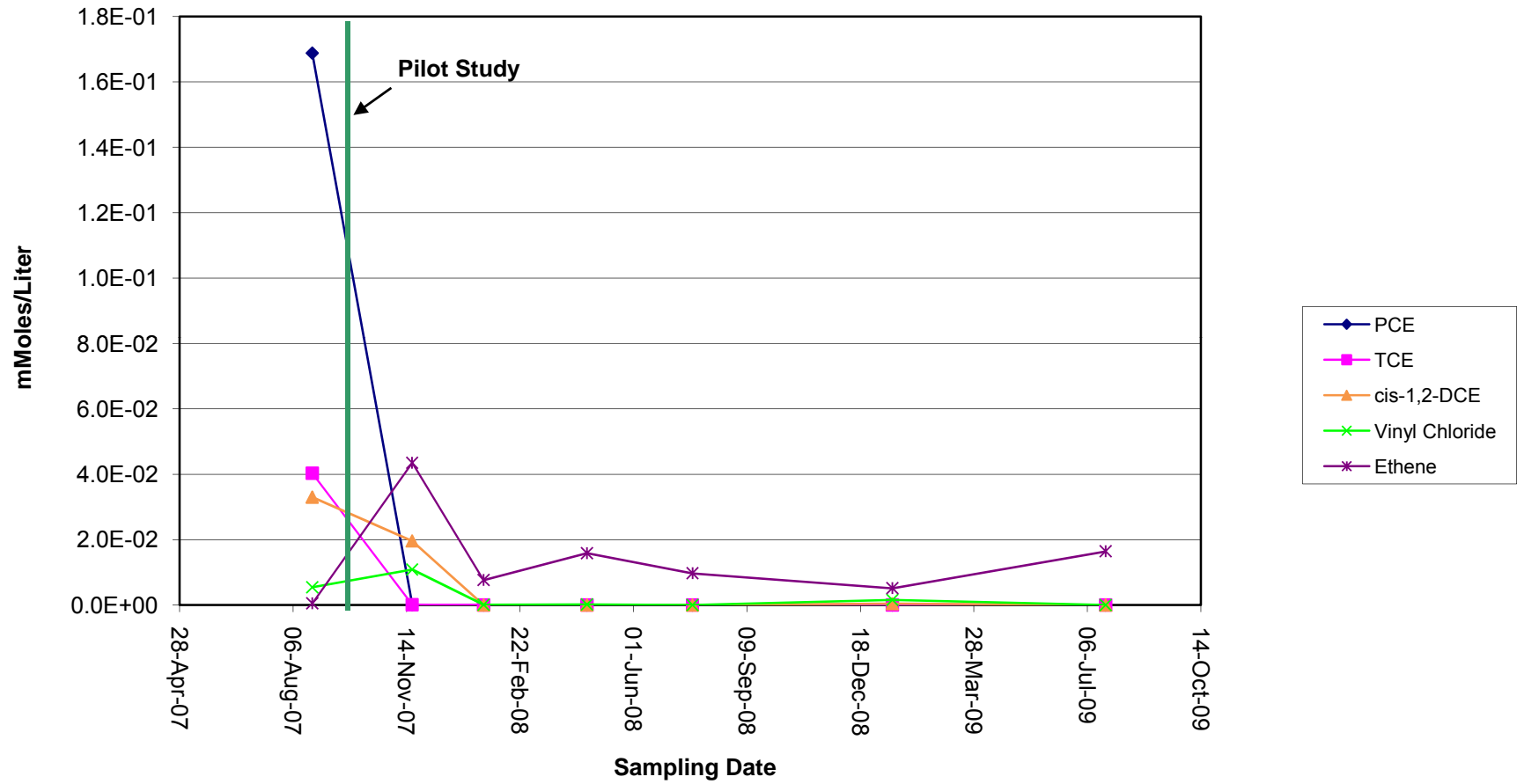


Figure B-2
B131-MW3 (mMols/L)

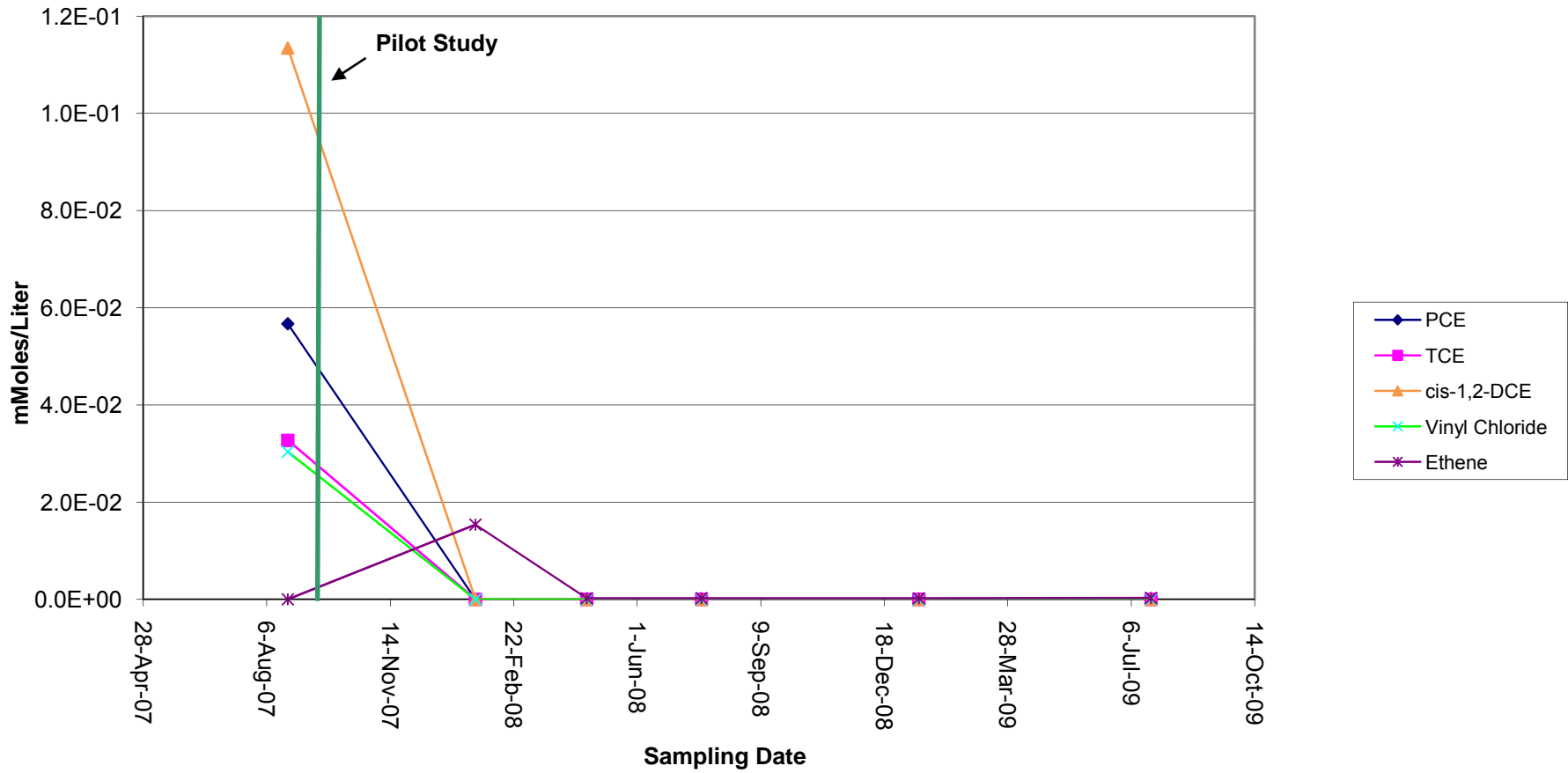


Figure B-3
B131-MW5 (mMols/L)

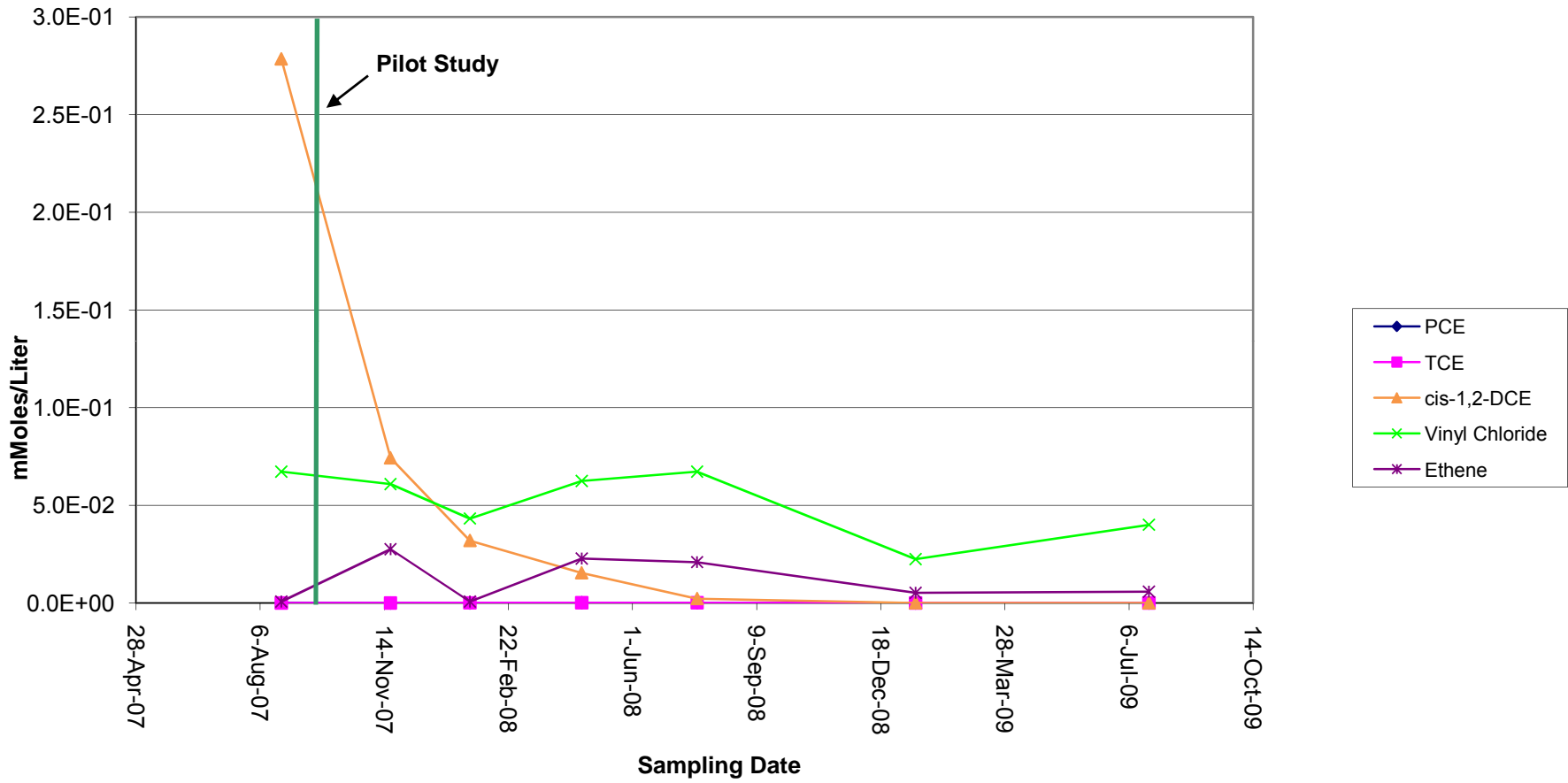


Figure B-4
B131-MW6 (mMols/L)

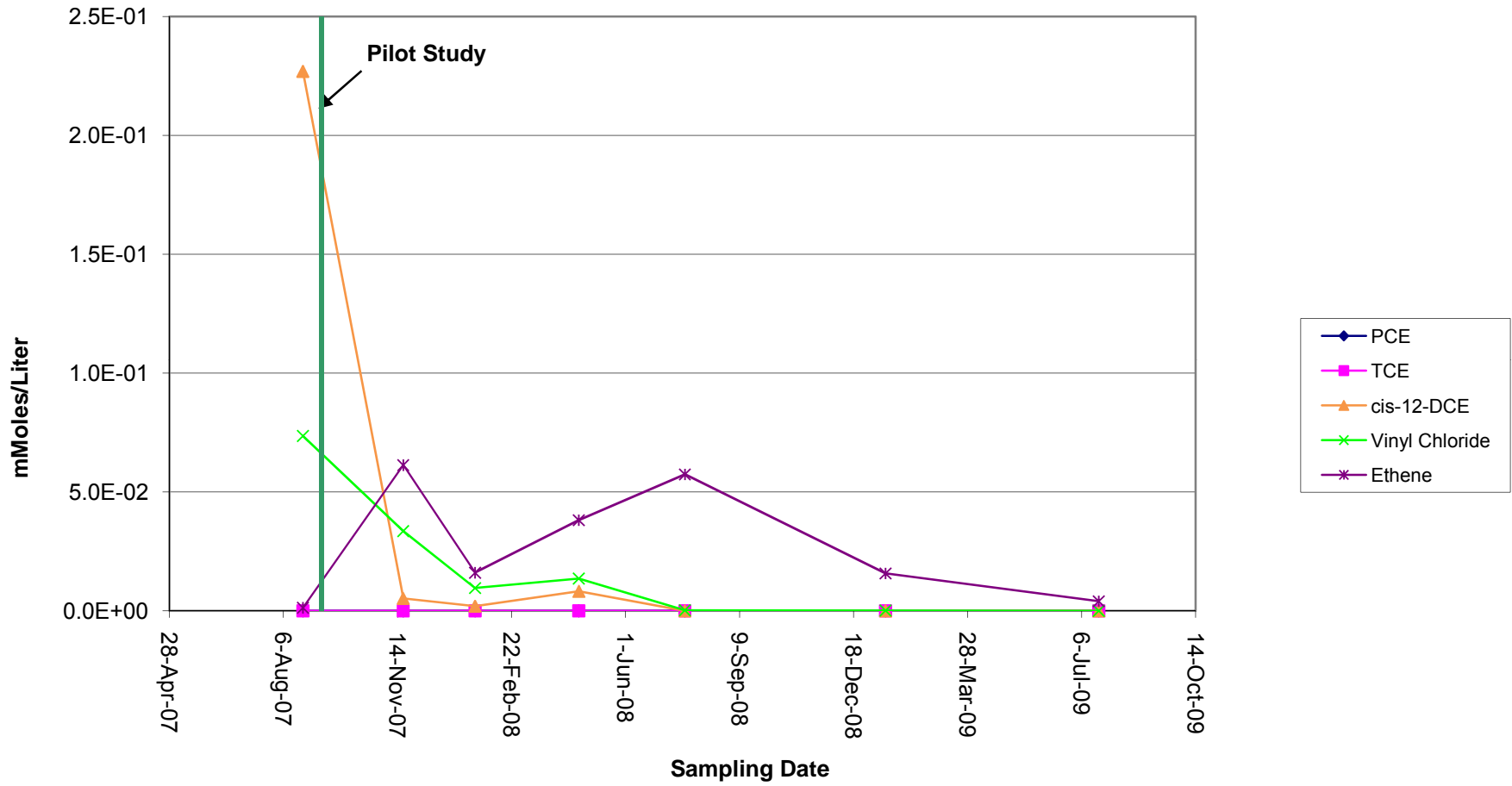


Figure B-5
B120-MW1 (mMol/L)

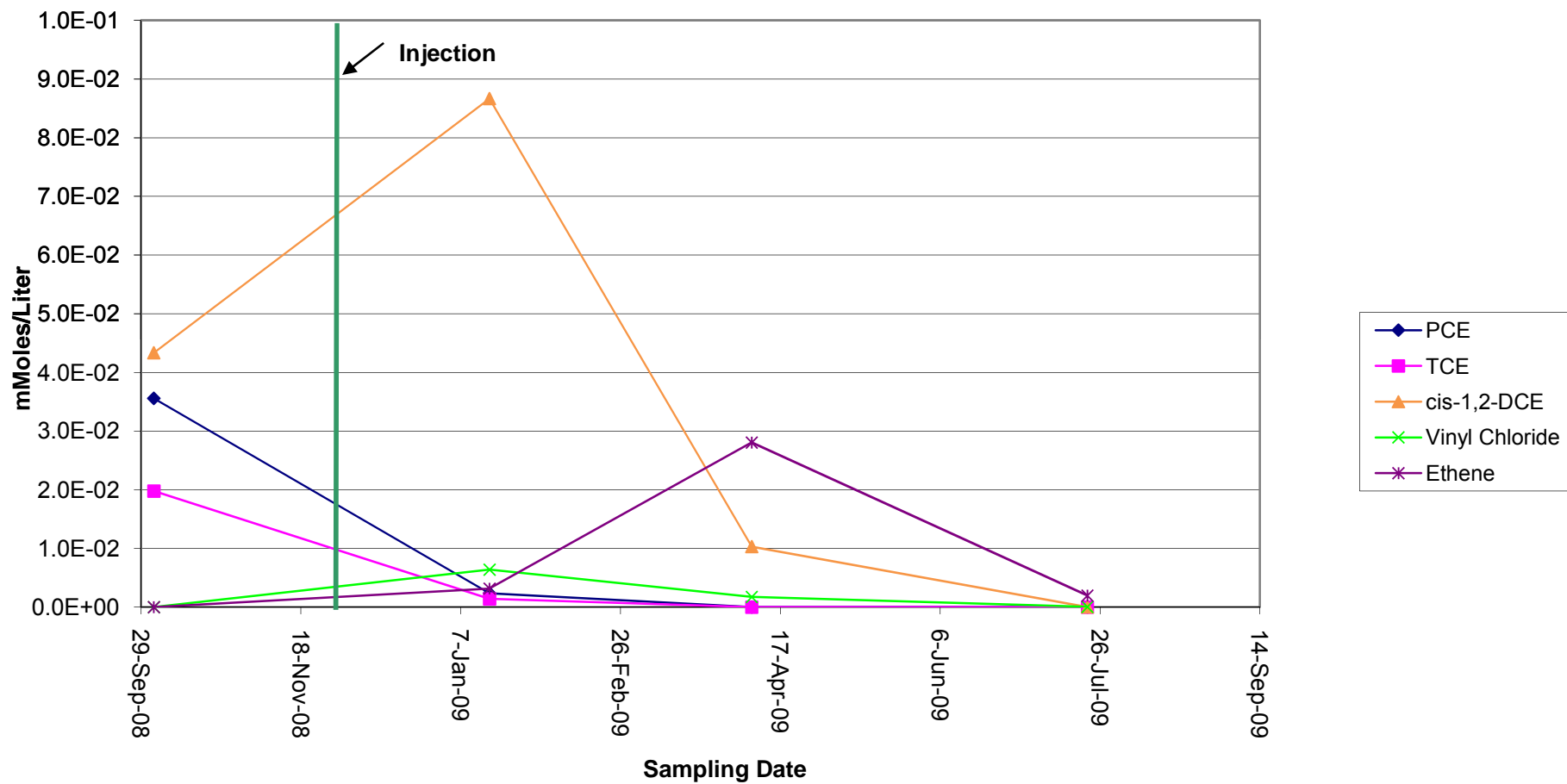


Figure B-6
B120-MW2 (mMol/L)

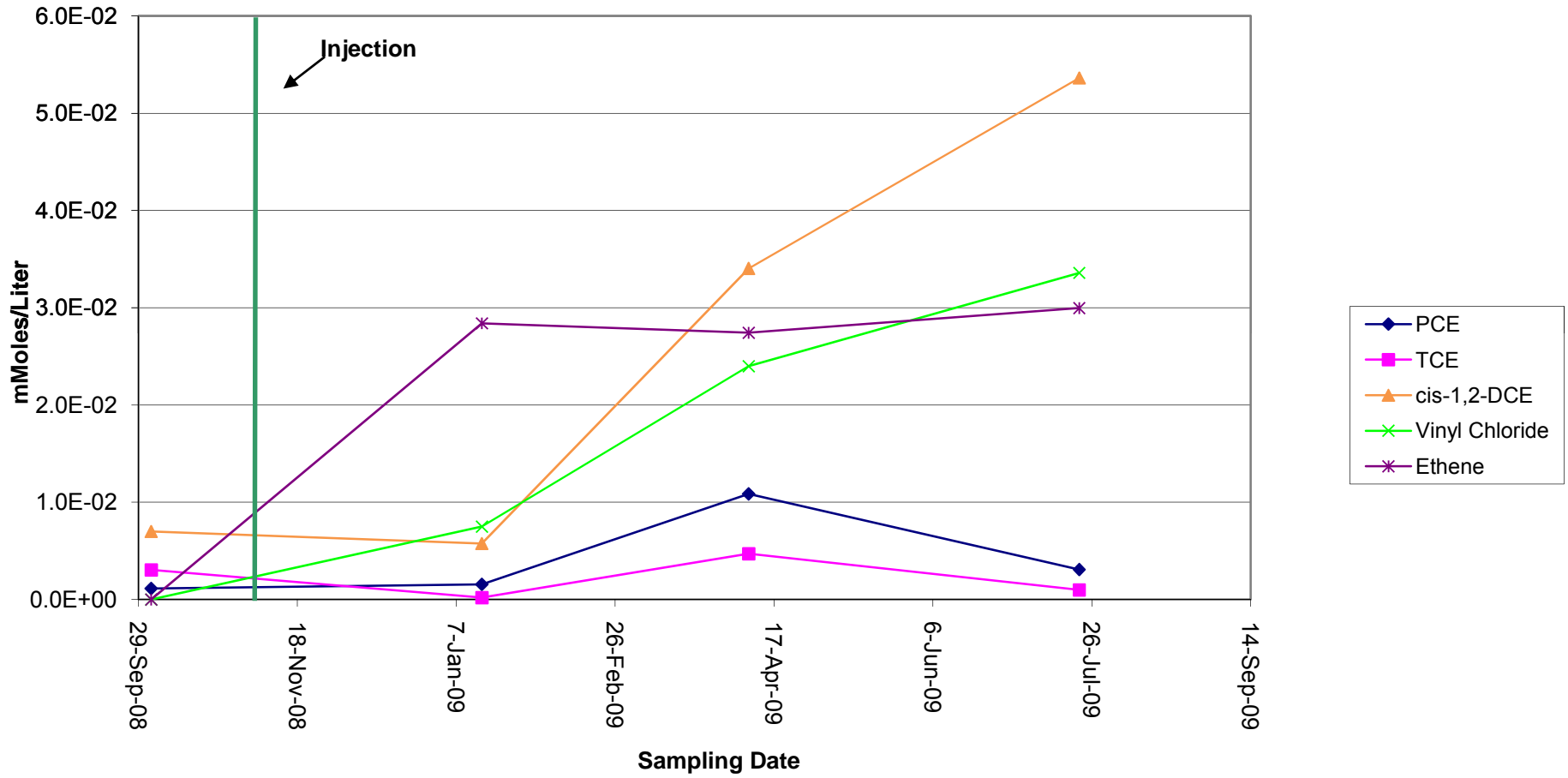


Figure B-7
B120-MW3 (mMol/L)

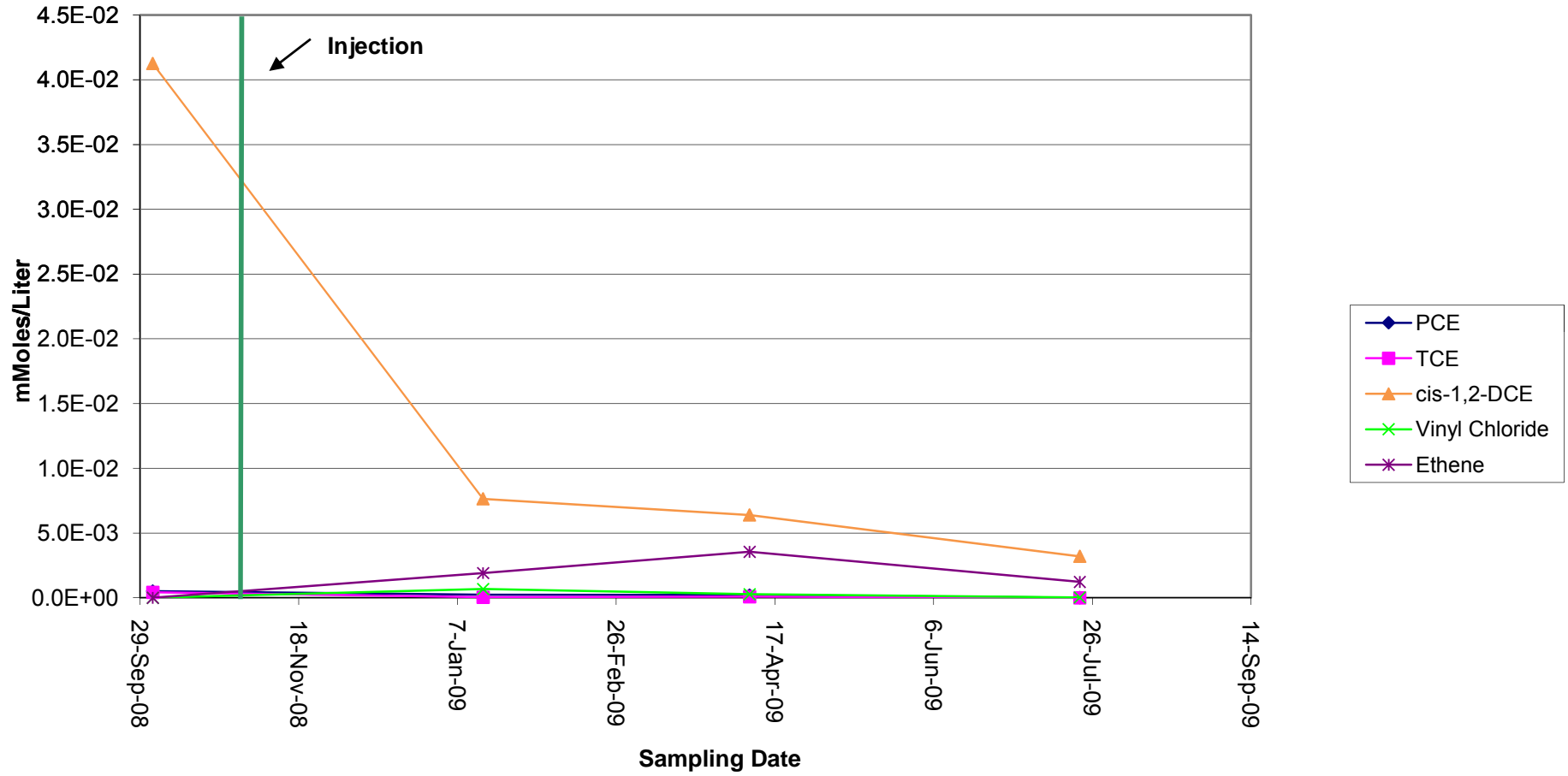


Figure B-9
B120-MW7 (mMol/L)

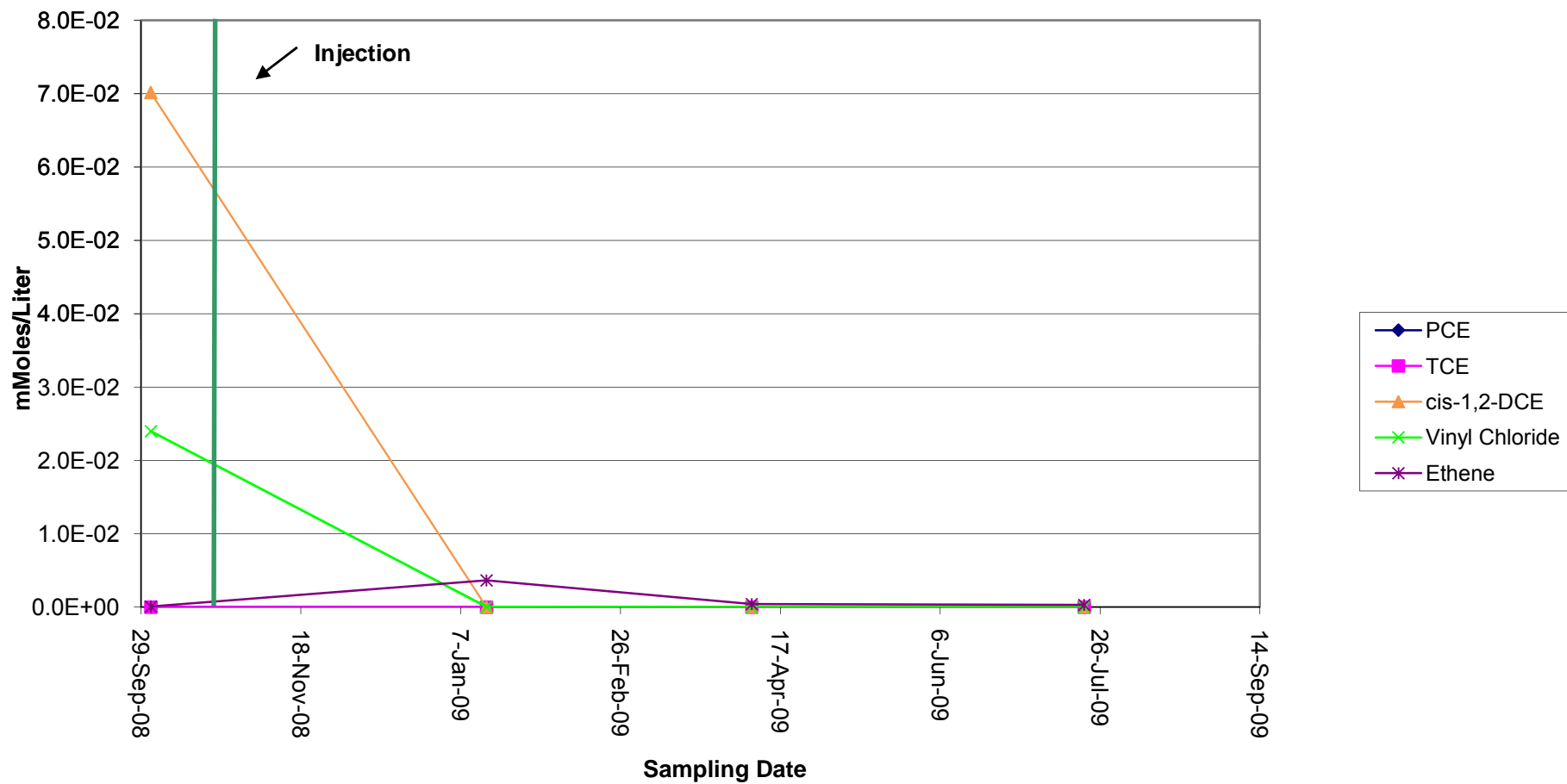


Figure B-8
B120-MW6 (mMol/L)

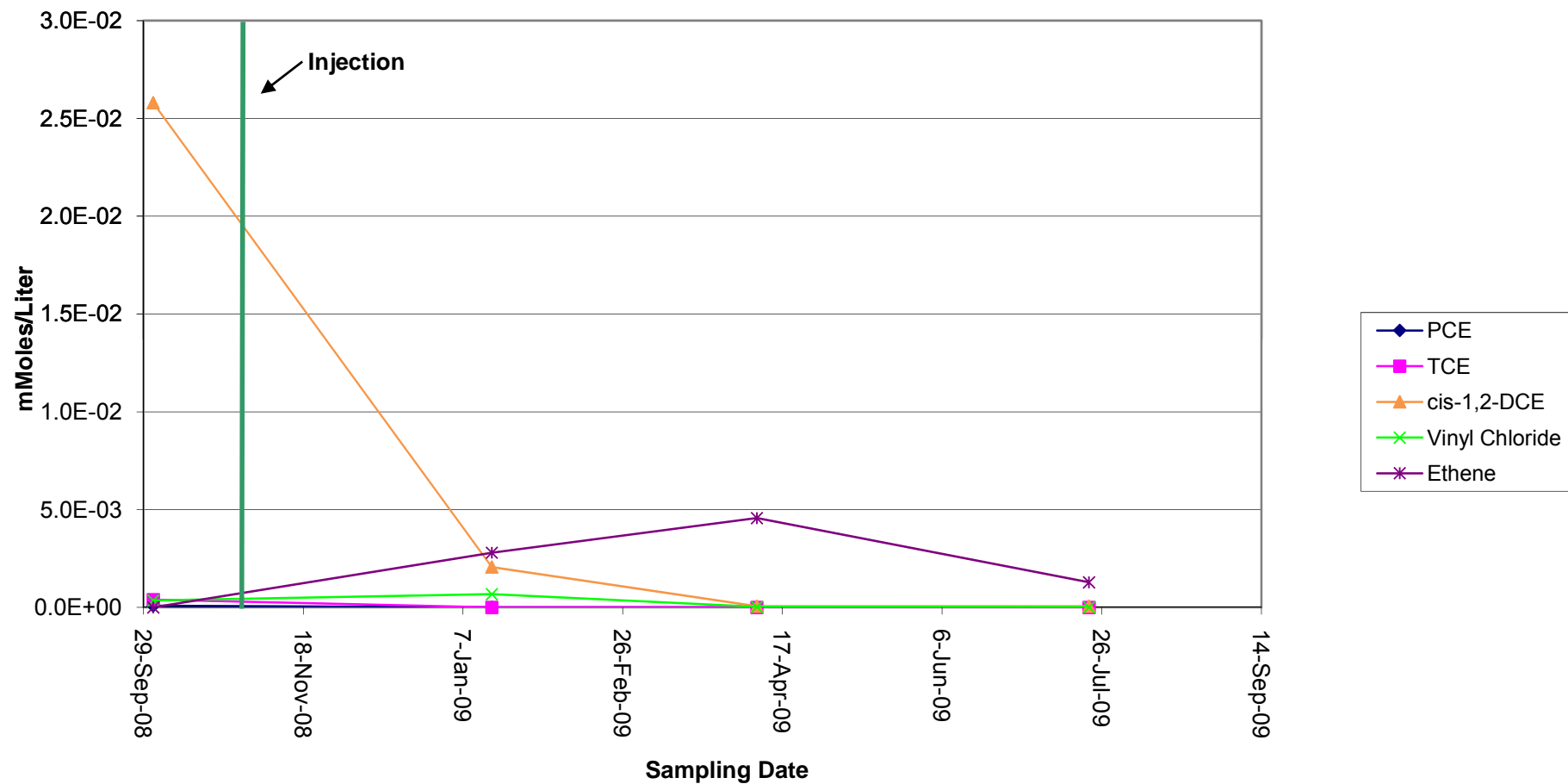


Figure B10
B120-MW8 (mMol/L)

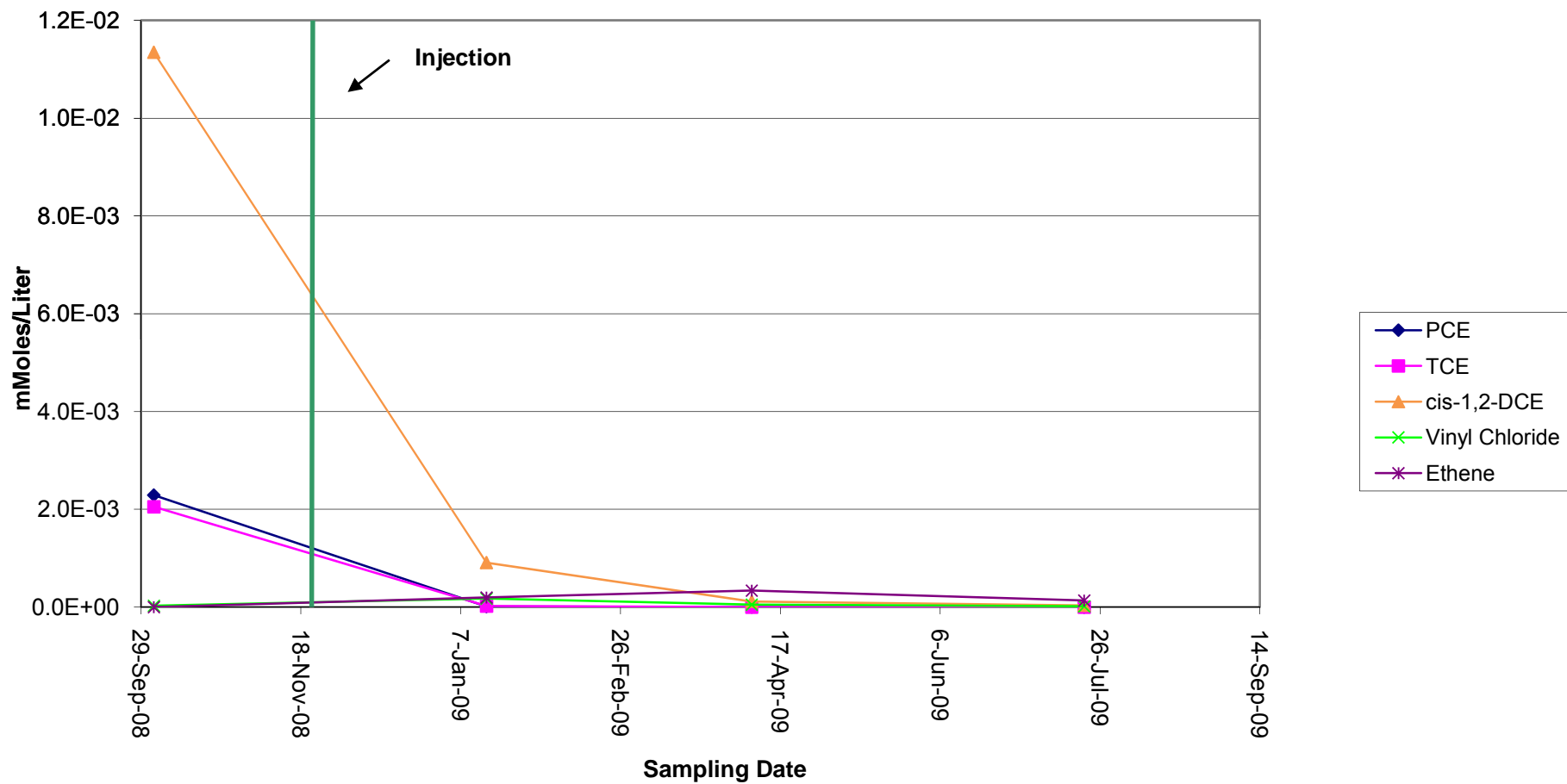


Figure B-11
B120-MW9 (mMol/L)

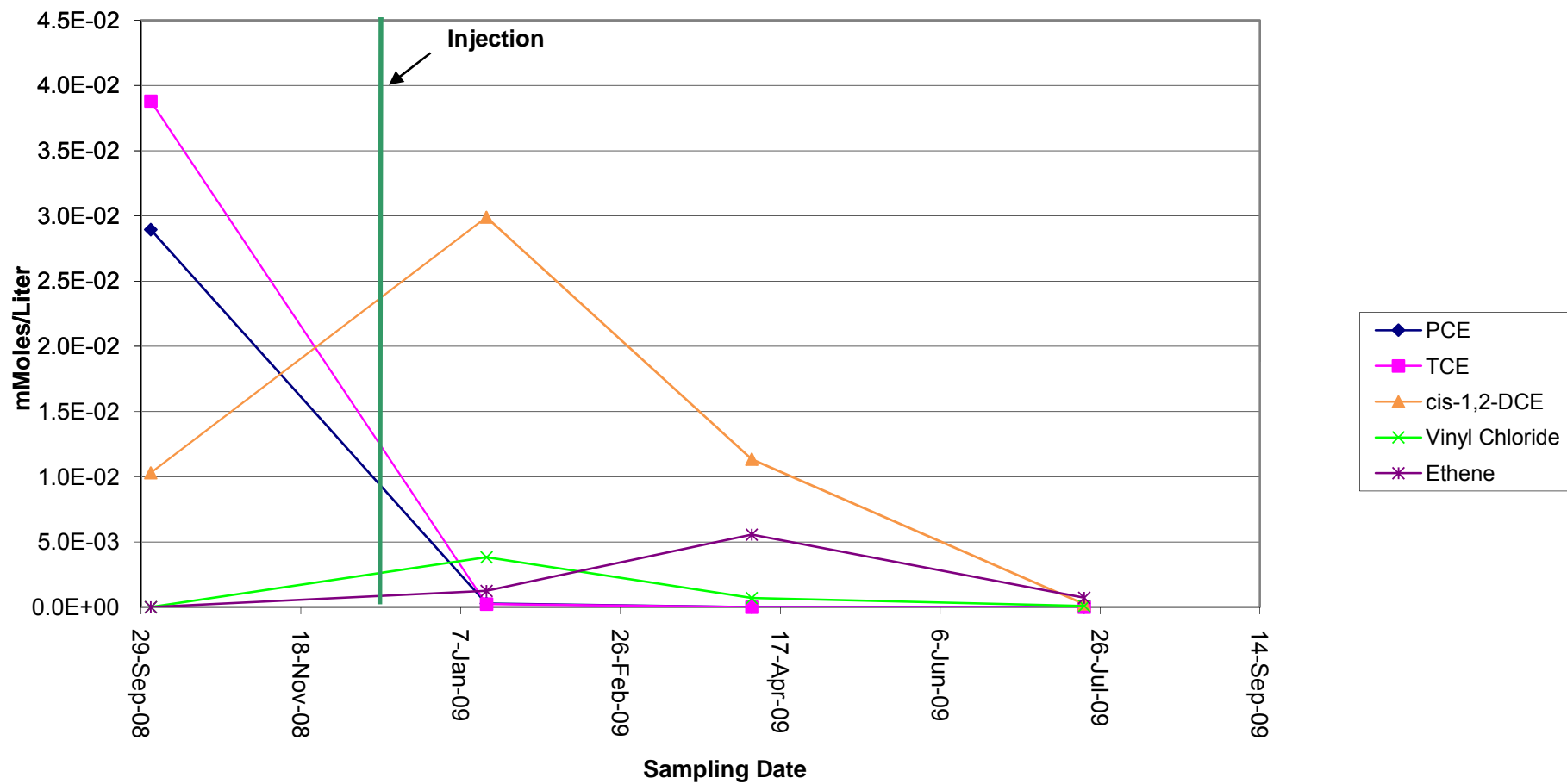


Figure B-12
FMY-MW1(mMol/L)

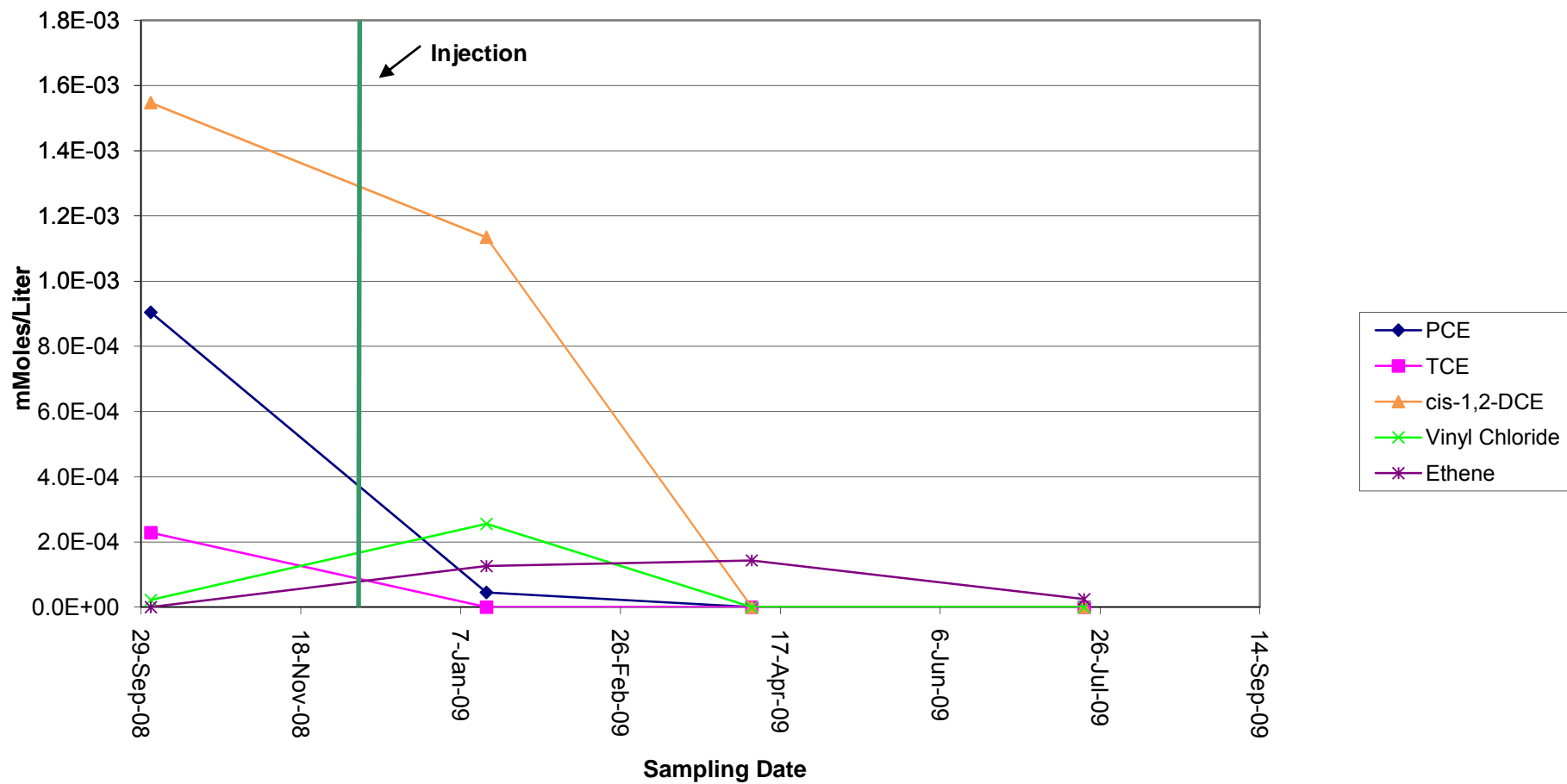
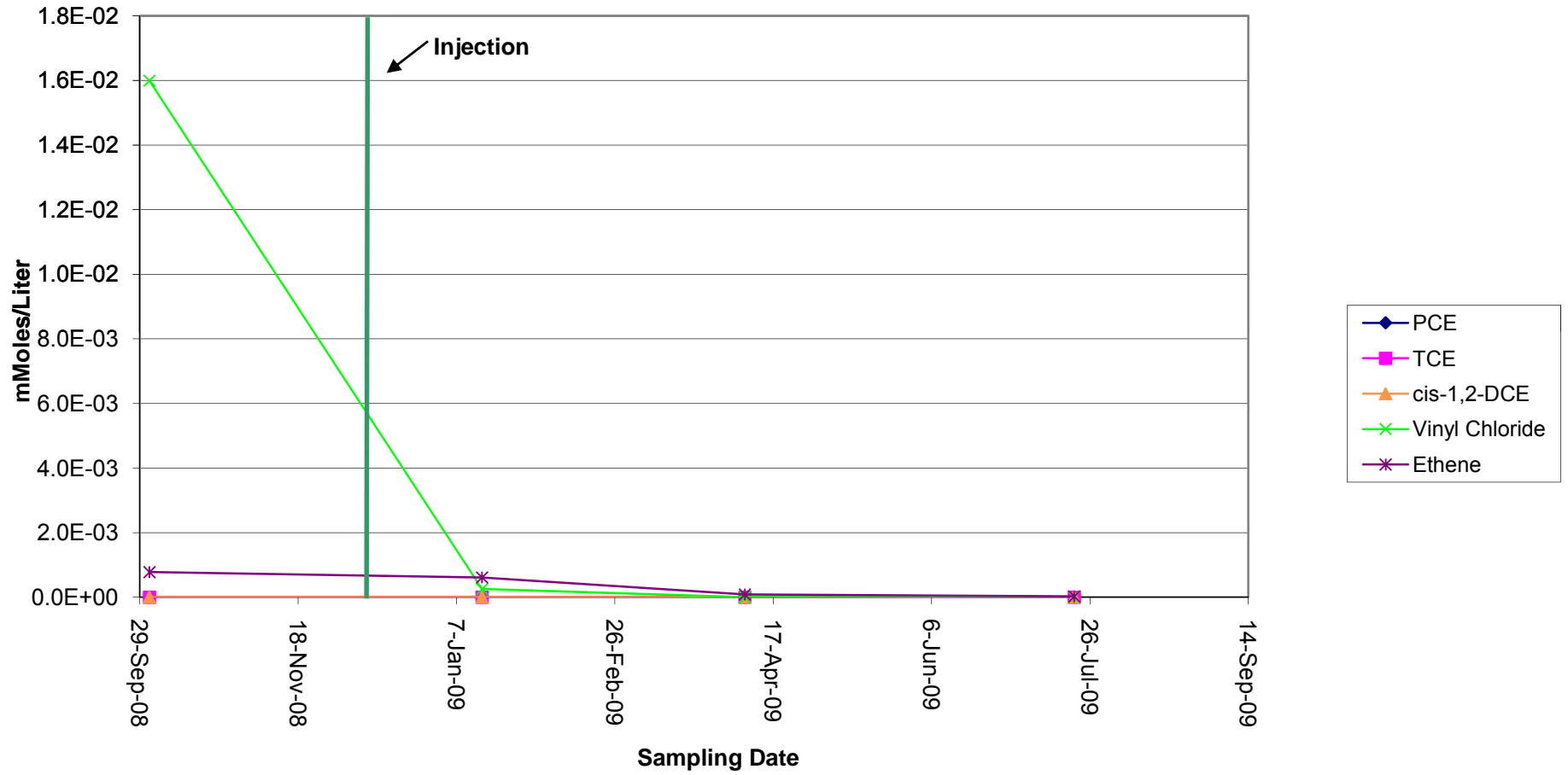


Figure B-13
B180-MW2 (mMol/L)



APPENDIX C

Groundwater Sampling Field Forms

Table 3
 Summary of Groundwater Elevations
 2701 North Harbor Drive
 San Diego, California

Ground on 7/20/09 from 8:00 - 10:00 AM

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toe)	Depth to Water (ft toe)	Groundwater Elevation (ft MSL)
BLD120-MW1	8.882	8/30/2006	14.75	6.30	2.58
		1/8/2007	14.75	6.49	2.39
		8/21/2007	14.75	6.59	2.29
		1/21/2008	14.75	6.10	2.78
		7/21/2008	14.75	6.24	2.64
		1/14/2009	14.75	5.05	3.83
		<i>7/20/09</i>		<i>5.97</i>	
BLD120-MW2	8.867	8/30/2006	13.60	6.49	2.38
		1/8/2007	13.40	6.60	2.27
		8/21/2007	13.33	6.72	2.15
		1/21/2008	13.33	6.19	2.68
		7/21/2008	13.33	6.40	2.47
		1/14/2009	13.33	5.34	3.53
		<i>7/20/09</i>		<i>6.29</i>	
BLD120-MW3	8.776	8/30/2006	14.34	6.45	2.33
		1/8/2007	14.34	6.60	2.18
		8/21/2007	14.35	6.67	2.11
		1/21/2008	14.35	6.30	2.48
		7/21/2008	14.35	6.36	2.42
		1/14/2009	14.35	5.58	3.20
		<i>7/20/09</i>		<i>6.34</i>	
BLD120-MW4	7.071	8/30/2006	14.55	5.00	2.07
		1/8/2007	14.55	5.22	1.85
		8/21/2007	14.55	5.13	1.94
		1/21/2008	14.55	4.63	2.44
		7/21/2008	14.55	4.80	2.27
		1/14/2009	14.55	4.74	2.33
		<i>7/20/09</i>		<i>5.05</i>	
BLD120-MW5	8.029	8/30/2006	15.15	6.00	2.03
		1/8/2007	15.15	6.05	1.98
		8/21/2007	15.15	5.97	2.06
		1/21/2008	15.15	5.42	2.61
		7/21/2008	15.15	5.33	2.70
		1/14/2009	15.15	5.72	2.31
		<i>7/20/09</i>		<i>6.04</i>	
BLD120-MW6	8.728	8/30/2006	14.55	6.36	2.37
		1/8/2007	14.55	6.50	2.23
		8/21/2007	14.55	6.62	2.11
		1/21/2008	14.55	5.99	2.74
		7/21/2008	14.55	6.32	2.41
		1/14/2009	14.55	5.19	3.54
		<i>7/20/09</i>		<i>6.09</i>	
BLD120-MW7	8.786	1/14/2009	15.05	6.21	2.58
<i>7/20/09</i>			<i>6.53</i>		
BLD120-MW8	8.941	1/14/2009	15.22	4.88	4.06
<i>7/20/09</i>			<i>6.00</i>		
BLD120-MW9	8.455	1/14/2009	15.37	4.62	3.84
<i>7/20/09</i>			<i>5.44</i>		
BLD131-MW1	8.995	8/30/2006	14.55	6.36	2.64
		1/8/2007	14.55	6.60	2.40
		8/21/2007	14.55	6.55	2.45
		1/21/2008	14.55	6.35	2.65
		7/21/2008	14.55	6.35	2.65
		1/14/2009	14.55	6.30	2.70
<i>7/20/09</i>			<i>6.64</i>		

Table 3
 Summary of Groundwater Elevations
 2701 North Harbor Drive
 San Diego, California

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toe)	Depth to Water (ft toe)	Groundwater Elevation (ft MSL)
BLD131-MW2	9.460	8/30/2006	14.51	6.80	2.66
		1/8/2007	14.51	7.05	2.41
		8/21/2007	14.51	7.00	2.46
		1/21/2008	14.51	6.70	2.76
		7/21/2008	14.51	6.77	2.69
		1/14/2009	14.51	6.66	2.80
		7/20/09			7.02
BLD131-MW2D	9.670	8/30/2006	40.08	7.57	2.10
		1/8/2007	40.08	-	-
		8/21/2007	40.08	7.80	1.87
		1/21/2008	40.08	7.31	3.02
		7/21/2008	40.08	7.70	1.97
		1/14/2009	40.08	7.14	2.53
		7/20/09			8.04
BLD131-MW3	9.196	8/30/2006	14.46	6.61	2.59
		1/8/2007	14.46	6.95	2.25
		8/21/2007	14.46	6.83	2.37
		1/21/2008	14.46	6.65	2.55
		7/21/2008	14.46	6.63	2.57
		1/14/2009	14.46	6.59	2.61
		7/20/09			6.93
BLD131-MW3D	9.750	8/30/2006	39.88	7.76	1.99
		1/8/2007	39.88	-	-
		8/21/2007	39.88	7.89	1.86
		1/21/2008	39.88	7.15	2.60
		7/21/2008	39.88	7.52	2.23
		1/14/2009	39.88	7.64	2.11
		7/20/09			8.28
BLD131-MW4	8.916	8/30/2006	13.70	6.29	2.63
		1/8/2007	13.70	6.70	2.22
		8/21/2007	13.70	6.50	2.42
		1/21/2008	13.70	6.54	2.38
		7/21/2008	13.70	6.33	2.59
		1/14/2009	13.70	6.46	2.46
		7/20/09			6.79
BLD131-MW5	10.116	8/30/2006	13.55	-	-
		1/8/2007	13.55	-	-
		8/21/2007	13.55	7.84	2.28
		1/21/2008	13.55	7.76	2.36
		7/21/2008	13.55	7.70	2.42
		1/14/2009	13.55	7.67	2.45
		7/20/09			7.98
BLD131-MW6	9.458	7/21/2008	15.19	6.88	2.58
		1/14/2009	15.19	6.88	2.58
7/20/09			7.20		
BLD130-MW1	7.887	8/30/2006	15.25	6.29	1.60
		1/8/2007	15.25	-	-
		8/21/2007	15.25	6.13	1.76
		1/21/2008	15.25	6.21	1.68
		7/21/2008	15.25	6.26	1.63
		1/14/2009	15.25	6.40	1.49
		7/20/09			6.53

Table 3
 Summary of Groundwater Elevations
 2701 North Harbor Drive
 San Diego, California

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
BLD180-MW2	8.465	1/14/2009	13.35	6.52	1.95
"		7/2/09		6.40	
BLD102-MW3	9.685	8/30/2006	17.03	7.35	2.34
		1/8/2007	17.03	7.65	2.04
		8/21/2007	17.03	7.57	2.12
		1/21/2008	17.03	7.29	2.40
		7/21/2008	17.03	7.22	2.47
		1/14/2009	17.03	6.88	2.81
BLD102-MW4	8.831	8/30/2006	17.80	6.44	2.39
		1/8/2007	17.80	6.65	2.18
		8/21/2007	17.80	6.57	2.26
		1/21/2008	17.80	6.50	2.33
		7/21/2008	17.80	6.27	2.56
		1/14/2009	17.80	6.74	2.09
		7/2/09		6.76	
BLD102-MW5	9.533	8/30/2006	15.18	7.11	2.42
		1/8/2007	15.18	7.40	2.13
		8/21/2007	15.18	7.29	2.24
		1/21/2008	15.18	7.09	2.44
		7/21/2008	15.18	7.02	2.51
		1/14/2009	15.18	6.89	2.64
		7/2/09		7.23	
BLD102-MW6		7/2/09	15.25	7.09	
BLD-156-MW1	9.263	8/30/2006	15.36	6.61	2.65
		1/8/2007	15.36	6.90	2.36
		8/21/2007	15.36	6.87	2.39
		1/21/2008	15.36	6.51	2.75
		7/21/2008	15.36	6.58	2.68
		1/14/2009	15.36	6.43	2.83
		7/2/09		6.85	
MWCL-1	8.426	8/30/2006	42.20	6.55	1.88
		1/8/2007	42.20	6.70	1.73
		8/21/2007	42.20	6.99	1.44
		1/21/2008	42.20	5.99	2.44
		7/21/2008	42.20	6.67	1.76
		1/14/2009	42.20	6.52	1.91
		7/2/09		7.00	
MWCL-2	8.491	8/30/2006	14.18	6.92	1.57
		1/8/2007	14.20	6.90	1.59
		8/21/2007	14.20	7.00	1.49
		1/21/2008	14.20	6.64	1.85
		7/21/2008	14.20	6.59	1.90
		1/14/2009	14.20	6.65	1.84
		7/2/09		6.75	
MWCL-3	9.520	8/30/2006	43.32	8.71	0.81
		1/8/2007	43.40	9.20	0.32
		8/21/2007	43.40	8.99	0.53
		1/21/2008	43.40	8.12	1.40
		7/21/2008	43.40	11.05*	-1.53
		1/14/2009	43.40	8.60	0.92
		7/2/09		10.12	

Destroyed

Table 3
 Summary of Groundwater Elevations
 2701 North Harbor Drive
 San Diego, California

Well Number	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toe)	Depth to Water (ft toe)	Groundwater Elevation (ft MSL)
MWCL-4	9.604	8/30/2006	14.30	7.90	1.70
		1/8/2007	14.30	8.05	1.55
		8/21/2007	14.30	8.13	1.47
		1/21/2008	14.30	7.83	1.77
		7/21/2008	14.30	7.86	1.74
		1/14/2009	14.30	7.98	1.62
		7/20/09			8.15
MWCL-5	11.074	8/30/2006	42.44	10.32	0.75
		1/8/2007	42.50	10.60	0.47
		8/21/2007	42.50	10.64	0.43
		1/21/2008	42.50	10.01	1.06
		7/21/2008	42.50	20.07*	-8.99
		1/14/2009	42.50	10.18	0.89
		7/20/09			12.50
MWCL-6	10.949	8/30/2006	14.85	9.84	1.11
		1/8/2007	14.90	10.10	0.85
		8/21/2007	14.90	10.19	0.76
		1/21/2008	14.90	8.70	2.25
		7/21/2008	14.90	9.83	1.12
		1/14/2009	14.90	9.95	1.00
		7/20/09			9.80
MWCL-7	11.150	1/8/2007	65.00	9.54	1.61
		8/21/2007	65.00	9.83	1.32
		1/21/2008	65.00	9.42	1.73
		7/21/2008	65.00	9.34	1.81
		1/14/2009	65.00	9.16	1.99
		7/20/09			9.68
MWCL-8R	8.900	1/8/2007	12.00	7.80	1.10
GT4	8.917	8/30/2006	15.66	7.09	1.83
		1/8/2007	15.66	7.48	1.44
		8/21/2007	15.66	7.31	1.61
		1/21/2008	15.66	6.96	1.96
		7/21/2008	15.66	6.91	2.01
		1/14/2009	15.66	6.84	2.08
		7/20/09			7.02
B158-MW1	9.370	7/21/2008	14.97	6.60	2.77
		1/14/2009	14.97	6.38	2.99
		7/20/09			6.76
B158-MW2		7/20/09	16.56	6.84	
AreaD-MW1	11.351	7/21/2008	16.69	8.41	2.94
		1/14/2009	16.69	8.25	3.10
		7/20/09			8.59
AreaD-MW2		7/20/09	15.67	7.36	
FMY-MW1	8.314	1/14/2009	15.15	6.05	2.26
		7/20/09			6.20
Notes: LP2		7/20/09		6.36	

ft toe = feet below top of casing
 ft MSL = feet below Mean Sea Level
 " - " = Monitor well not gauged
 * - Groundwater elevation artificially low due to pressurized well conditions

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>040700-001</u>	Client: <u>MOES/INTEC</u>
Sampler: <u>SR</u>	Start Date: <u>7.20.09</u>
Well I.D.: <u>Area D-MW1</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>16.64</u>	Depth to Water: <u>4.59</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YS155C</u>

Purge Method: <u>2" Grundfos Pump</u>	Peristaltic Pump	Bladder Pump
Sampling Method: <u>Dedicated Tubing</u>	<u>New Tubing</u>	Other _____
Flow Rate: <u>200 ml/min</u>	Pump Depth: <u>14.64</u>	

Basin 1009 Time	Temp. (C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or μ L)	Depth to Water
1012	23.93	10.52	2881	701	0.88	-27.0	600	4.51
1015	23.74	10.54	2885	389	0.92	-23.7	1200	4.51
1018	23.61	10.55	2886	173	0.78	-21.9	1800	4.51
1021	23.52	10.56	2891	136	0.76	-21.4	2400	4.51
1024	23.45	10.56	2900	42	0.72	-21.2	3000	4.52
1027	23.38	10.56	2909	61	0.70	-21.5	3600	4.51
1030	23.36	10.56	2919	42	0.70	-21.9	4200	4.51
1033	23.39	10.56	2927	44	0.69	-22.1	4400	4.52
1036	23.37	10.56	2926	42	0.67	-22.2	5400	4.53

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>9.4 L</u>
Sampling Time: <u>1241</u>	Sampling Date: <u>7.21.09</u>
Sample I.D.: <u>Area D-MW1</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See C.O.C.</u>
Equipment Blank I.D.: _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <i>090722-CD1</i>	Client: <i>GeoSyntec</i>
Sampler: <i>SL</i>	Start Date: <i>7/20/09</i>
Well I.D.: <i>Area D-MW2</i>	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 _____
Total Well Depth: <i>15.67</i>	Depth to Water: <i>7.36</i>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> <u>VC</u> Grade	Flow Cell Type: <i>VSI 556</i>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: *200 ml/min* Pump Depth: *14/7*

Begin 1069 Time	Temp. (C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
<i>1102</i>	<i>23.41</i>	<i>7.21</i>	<i>2339</i>	<i>30</i>	<i>0.55</i>	<i>-51.9</i>	<i>600</i>	<i>7.53</i>
<i>1105</i>	<i>23.24</i>	<i>7.23</i>	<i>2410</i>	<i>24</i>	<i>0.52</i>	<i>-49.6</i>	<i>1200</i>	<i>7.51</i>
<i>1108</i>	<i>23.22</i>	<i>7.26</i>	<i>2443</i>	<i>21</i>	<i>0.50</i>	<i>-48.1</i>	<i>1800</i>	<i>7.51</i>
<i>1111</i>	<i>23.12</i>	<i>7.24</i>	<i>2553</i>	<i>14</i>	<i>0.44</i>	<i>-47.2</i>	<i>2400</i>	<i>7.52</i>
<i>1114</i>	<i>22.94</i>	<i>7.24</i>	<i>2679</i>	<i>13</i>	<i>0.49</i>	<i>-46.6</i>	<i>3000</i>	<i>7.51</i>
<i>1117</i>	<i>22.91</i>	<i>7.27</i>	<i>2704</i>	<i>16</i>	<i>0.49</i>	<i>-44.2</i>	<i>3600</i>	<i>7.51</i>
<i>1120</i>	<i>22.71</i>	<i>7.27</i>	<i>2755</i>	<i>15</i>	<i>0.45</i>	<i>-44.0</i>	<i>4200</i>	<i>7.51</i>
<i>1123</i>	<i>22.74</i>	<i>7.27</i>	<i>2791</i>	<i>16</i>	<i>0.46</i>	<i>-43.9</i>	<i>4800</i>	<i>7.51</i>

Did well dewater? Yes <input checked="" type="checkbox"/>	Amount actually evacuated: <i>4.8L</i>
Sampling Time: <i>1124</i>	Sampling Date: <i>7/21/09</i>
Sample I.D.: <i>Area D-MW2</i>	Laboratory: <i>CSI Science</i>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <i>See C.O.C.</i>	
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>090720-001</u>	Client: <u>Geosyntec</u>
Sampler: <u>SIC</u>	Start Date: <u>7-20-09</u>
Well I.D.: <u>BLD102-MW4</u>	Well Diameter: 2 3 <u>4</u> 6 8 _____
Total Well Depth: <u>17.80</u>	Depth to Water: <u>6.76</u>
Depth to Free Product: <u>-</u>	Thickness of Free Product (feet): <u>-</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSI556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200 ml/min Pump Depth: 16 ft

Begin Time <u>0907</u>	Temp. (C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
<u>0910</u>	<u>23.57</u>	<u>6.91</u>	<u>1291</u>	<u>2</u>	<u>1.43</u>	<u>22.9</u>	<u>600</u>	<u>6.76</u>
<u>0913</u>	<u>23.23</u>	<u>6.40</u>	<u>1295</u>	<u>2</u>	<u>1.34</u>	<u>22.1</u>	<u>1200</u>	<u>6.77</u>
<u>0916</u>	<u>23.05</u>	<u>6.90</u>	<u>1301</u>	<u>1</u>	<u>1.13</u>	<u>21.8</u>	<u>1800</u>	<u>6.77</u>
<u>0919</u>	<u>22.93</u>	<u>6.93</u>	<u>1314</u>	<u>1</u>	<u>0.94</u>	<u>18.9</u>	<u>2400</u>	<u>6.77</u>
<u>0922</u>	<u>22.84</u>	<u>7.00</u>	<u>1400</u>	<u>1</u>	<u>0.69</u>	<u>13.9</u>	<u>3000</u>	<u>6.76</u>
<u>0925</u>	<u>22.73</u>	<u>7.11</u>	<u>1549</u>	<u>1</u>	<u>0.57</u>	<u>4.7</u>	<u>3600</u>	<u>6.76</u>
<u>0928</u>	<u>22.61</u>	<u>7.14</u>	<u>1646</u>	<u>1</u>	<u>0.52</u>	<u>-1.5</u>	<u>4200</u>	<u>6.77</u>
<u>0931</u>	<u>22.70</u>	<u>7.25</u>	<u>1866</u>	<u>0</u>	<u>0.44</u>	<u>-5.5</u>	<u>4800</u>	<u>6.77</u>
<u>0934</u>	<u>22.70</u>	<u>7.31</u>	<u>1892</u>	<u>0</u>	<u>0.46</u>	<u>-6.1</u>	<u>5400</u>	<u>6.77</u>
<u>0937</u>	<u>22.70</u>	<u>7.33</u>	<u>1920</u>	<u>0</u>	<u>0.45</u>	<u>-7.6</u>	<u>6000</u>	<u>6.77</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>66</u>
Sampling Time: <u>0942</u>	Sampling Date: <u>7-22-09</u>
Sample I.D.: <u>BLD102-MW4</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See C.O.C.</u>	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>072 090720-001</u>	Client: <u>Greos Water</u>
Sampler: <u>SK</u>	Start Date: <u>7-22-09</u>
Well I.D.: <u>BLD120-MW1</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>14.75</u>	Depth to Water: <u>5.97</u>
Depth to Free Product: <u>-</u>	Thickness of Free Product (feet): <u>-</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSI556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200ml/min Pump Depth: 13 ft

Begin Time	Temp. (C or F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
<u>1207</u>	<u>21.09</u>	<u>6.66</u>	<u>4310</u>	<u>80</u>	<u>0.62</u>	<u>-129.4</u>	<u>600</u>	<u>6.32</u>
<u>1213</u>	<u>20.55</u>	<u>6.67</u>	<u>4306</u>	<u>76</u>	<u>0.46</u>	<u>-126.8</u>	<u>1200</u>	<u>6.48</u>
<u>1216</u>	<u>20.73</u>	<u>6.67</u>	<u>4303</u>	<u>67</u>	<u>0.39</u>	<u>-121.6</u>	<u>1400</u>	<u>6.61</u>
<u>1219</u>	<u>20.71</u>	<u>6.66</u>	<u>4297</u>	<u>72</u>	<u>0.35</u>	<u>-121.8</u>	<u>2400</u>	<u>6.64</u>
<u>1222</u>	<u>20.64</u>	<u>6.66</u>	<u>4303</u>	<u>77</u>	<u>0.33</u>	<u>-125.6</u>	<u>3000</u>	<u>6.81</u>
<u>1225</u>	<u>20.65</u>	<u>6.65</u>	<u>4304</u>	<u>75</u>	<u>0.32</u>	<u>-124.5</u>	<u>3600</u>	<u>6.92</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>3.6L</u>
Sampling Time: <u>1230</u>	Sampling Date: <u>7-22-09</u>
Sample I.D.: <u>BLD120-MW1</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See C.O.C.</u>	
Equipment Blank I.D.: <u>ALCB-6 @ 1300</u> Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>010720-CD1</u>	Client: <u>Geosyntec</u>
Sampler: <u>CD</u>	Start Date: <u>07-20-09</u>
Well I.D.: <u>BD120-MW2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>13.33</u>	Depth to Water: <u>6.29</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump
 Sampling Method: Dedicated Tubing

Peristaltic Pump Bladder Pump
 New Tubing Other

Flow Rate: 100 mL/min

Pump Depth: 12.33

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (m))	Depth to Water
1145	25.5	6.7	4173	39	0.4	-98.1	300	6.55
1148	25.4	6.8	4147	33	0.4	-101.0	600	6.65
1151	25.4	6.8	4116	32	0.4	-103.1	900	6.75
1154	25.4	6.7	4106	29	0.3	-104.5	1200	6.80
1157	25.4	6.7	4104	29	0.3	-104.6	1500	6.85
1200	25.4	6.7	4095	28	0.3	-104.8	1800	6.89

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1230</u>	Sampling Date: <u>07-22-09</u>
Sample I.D.: <u>BD120-MW2</u>	Laboratory: <u>Calscience</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See S.O.W.</u>
Equipment Blank I.D.: <u>QCEB-5</u> @ Time <u>1400</u>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090720-01	Client: Goosy Mill
Sampler: D	Start Date: 07-20-09
Well I.D.: BID20-MW3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 14.35	Depth to Water: 6.94
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: VSI

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump

Sampling Method: Dedicated Tubing New Tubing Other _____

Flow Rate: 100 mL/min Pump Depth: 13.35

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1034	24.9	6.2	6090	46	1.3	-79.0	300	6.35
1037	24.7	6.2	6133	32	0.6	-82.6	600	6.48
1040	24.5	6.2	6157	26	0.5	-82.9	900	6.56
1043	24.4	6.1	6161	22	0.4	-78.9	1200	6.70
1046	24.2	6.1	6166	21	0.4	-77.4	1500	6.84
1049	24.3	6.1	6158	23	0.3	-76.8	1800	6.90

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 1.8L
Sampling Time: 1056	Sampling Date: 07-22-09
Sample I.D.: BID20-MW3	Laboratory: CalScienc
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See S.O.W.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090720-01	Client: Geosyntec
Sampler: C	Start Date: 07-22-09
Well I.D.: BID120-MW4	Well Diameter: C 3 4 6 8 _____
Total Well Depth: 14.55	Depth to Water: 5.05
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump

Sampling Method: Dedicated Tubing New Tubing Other _____

Flow Rate: 200 - 100 mL/min Pump Depth: 13.55

Time	Temp. ($^{\circ}\text{C}$ or $^{\circ}\text{F}$)	pH	Cond. (mS or μS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
0721	26.0	7.0	5264	40	1.2	-53.2	600	5.28
0724	26.1	7.0	5278	39	1.1	-67.5	1200	5.40
0727	26.2	7.0	5276	36	2.0	-78.7	1800	5.55
0730	26.3	6.9	5165	28	0.5	-92.0	2100	5.60
0733	26.3	6.9	5133	24	0.4	-93.8	2400	5.64
0736	26.2	6.9	5124	21	0.4	-95.9	2700	5.67
0739	26.0	6.9	5135	20	0.4	-97.9	3000	5.68
0742	25.9	6.9	5142	19	0.4	-92.1	3300	5.70

Did well dewater? Yes No	Amount actually evacuated: 3.3L
Sampling Time: 0750	Sampling Date: 07-22-09
Sample I.D.: BID120-MW4	Laboratory: CalScience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See S.O.W
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>090720-01</u>	Client: <u>Geosyntec</u>
Sampler: <u>CD</u>	Start Date: <u>07-20-09</u>
Well I.D.: <u>BID120-MW5</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>15.15</u>	Depth to Water: <u>6.04</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200 mL/min Pump Depth: 14.15

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u>)	Depth to Water
0810	27.1	7.5	2989	168	1.7	-32.5	600	6.05
0813	26.9	7.5	2983	175	0.6	-33.8	1200	6.05
0816	26.8	7.5	2984	146	0.5	-35.0	1800	6.05
0819	26.8	7.5	2988	111	0.5	-36.9	2400	6.05
0822	26.8	7.5	2975	87	0.5	-37.7	3000	6.05
0825	26.8	7.5	2954	58	0.4	-37.4	3600	6.05
0828	26.7	7.5	2924	38	0.4	-37.1	4200	6.05
0831	26.6	7.5	2903	34	0.3	-37.0	4800	6.05
0834	26.6	7.4	2883	23	0.3	-36.9	5400	6.05
0837	26.6	7.4	2854	23	0.3	-36.1	6000	6.05
0840	26.5	7.4	2833	22	0.3	-35.3	6600	6.05

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>6.6L</u>
Sampling Time: <u>0845</u>	Sampling Date: <u>07-22-09</u>
Sample I.D.: <u>BID120-MW5</u>	Laboratory: <u>CALScience</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See. SOW</u>	
Equipment Blank I.D.: _____ <small>(Time)</small>	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090220-01	Client: Geosyntec
Sampler: A	Start Date: 07-20-09
Well I.D.: BLD120-MW6	Well Diameter: ② 3 4 6 8
Total Well Depth: 14.55	Depth to Water: 6.09
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI

Purge Method: 2" Grundfos Pump
 Sampling Method: Dedicated Tubing
 Flow Rate: 100 mL/min

Peristaltic Pump
 New Tubing
 Bladder Pump
 Other

Pump Depth: 13.55

Time	Temp. (°C or °F)	pH	Cond. (mg/L or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or L)	Depth to Water
0916	27.1	7.2	2516	106	0.6	-136.5	300	6.30
0919	26.0	7.2	2538	99	0.4	-144.2	600	6.35
0922	25.7	7.2	2515	63	0.3	-143.5	900	6.38
0925	25.6	7.2	2502	47	0.2	-138.8	1200	6.40
0928	25.6	7.1	2480	34	0.3	-137.8	1500	6.35
0931	25.6	7.1	2475	28	0.3	-137.3	1800	6.30
0934	25.6	7.1	2467	27	0.3	-136.1	2100	6.30
0937	25.6	7.0	2459	25	0.3	-134.8	2400	6.30
0940	25.6	7.0	2449	22	0.3	-133.0	2700	6.30
0943	25.6	7.0	2444	21	0.3	-132.3	3100	6.30
0946	25.6	7.0	2440	20	0.3	-131.8	3400	6.30

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 3.4L
Sampling Time: 0955	Sampling Date: 07-22-09
Sample I.D.: BLD120-MW6	Laboratory: Calsciera
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See S.O.W.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090720-001	Client: Geosyntec
Sampler: D	Start Date: 07-20-09
Well I.D.: BLD120-MW7	Well Diameter: (2) 3 4 6 8
Total Well Depth: 15.05	Depth to Water: 6.53
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder Pump)

Sampling Method: Dedicated Tubing (New Tubing) Other _____

Flow Rate: 100 mL/min Pump Depth: 14.00'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
0823	24.2	7.0	7373	190	1.3	-41.6	300	6.95
0826	24.2	7.0	7371	187	0.8	-46.6	600	7.10
0829	24.1	6.9	7355	181	0.4	-44.0	900	7.22
0832	24.0	6.9	7348	152	0.4	-40.6	1200	7.35
0835	24.0	6.8	7342	144	0.4	-40.5	1500	7.55
0838	24.0	6.8	7341	139	0.4	-40.8	1800	7.63
0841	24.0	6.8	7341	134	0.4	-41.1	2100	7.68

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 2.1 L
Sampling Time: 0850	Sampling Date: 07-21-09
Sample I.D.: BLD120-MW7	Laboratory: CAIScience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See S.O.W.
Equipment Blank I.D.: @ <small>time</small>	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090720-CD1	Client: Geosyntec
Sampler: CD	Start Date: 07-20-09
Well I.D.: BID120-MW8	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 15.22	Depth to Water: 6.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PV6</u> Grade	Flow Cell Type: YSI-556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200 mL/min - 100 mL/min Pump Depth: 14'

Time	Temp. (<u>C</u> or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>l</u>)	Depth to Water
0920	24.4	6.6	3767	72	0.9	-45.0	600	6.34
0923	24.0	6.6	3714	64	0.4	-50.0	1200	6.68
0926	23.8	6.6	3683	66	0.4	-51.4	1800	6.92
0929	23.9	6.6	3668	61	0.4	-50.5	2100	7.00
0932	24.0	6.6	3659	61	0.4	-50.3	2400	7.03
0935	24.0	6.6	3657	61	0.4	-49.1	2700	7.05

Did well dewater? Yes <u>No</u>	Amount actually evacuated: 2.7L
Sampling Time: 0945	Sampling Date: 07-21-09
Sample I.D.: BID120-MW8	Laboratory: Calscience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See S.O.W.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090720-601	Client: Geosyntec
Sampler: SK	Start Date: 7-20-09
Well I.D.: BLD120-MW4	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="radio"/> _____
Total Well Depth: 15.37	Depth to Water: 5.44
Depth to Free Product: -	Thickness of Free Product (feet): -
Referenced to: PVC Grade	Flow Cell Type: VSI 556

Purge Method: 2" Grundfos Pump	Peristaltic Pump	Bladder Pump
Sampling Method: Dedicated Tubing	New Tubing	Other _____
Flow Rate: 200 mL/min	Pump Depth: 14 ft	

Begin Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water
0905	23.44	6.27	3524	37	1.03	-82.4	600	6.24
0910	23.21	6.26	3524	30	0.67	-80.9	1200	6.60
0914	23.12	6.25	3524	27	0.70	-80.2	1400	6.75
0917	23.07	6.25	3523	24	0.57	-82.6	2400	6.87
0919	23.14	6.25	3520	21	0.49	-82.1	3000	6.92
0913 0914	23.35	6.26	3520	21	0.43	-83.5	3600	7.10
Cell 6 0917	23.49	6.27	3522	19	0.41	-84.7	4200	7.15

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: 4.2L
Sampling Time: 0921	Sampling Date: 7-21-09
Sample I.D.: BLD120-MW4	Laboratory: Cal Science
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: Sec COL.
Equipment Blank I.D.: @	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>090720-01</u>	Client: <u>Geosyntec</u>
Sampler: <u>Ⓟ</u>	Start Date: <u>07-20-09</u>
Well I.D.: <u>BD131-MW6</u>	Well Diameter: <u>Ⓟ</u> 3 4 6 8 _____
Total Well Depth: <u>15.19</u>	Depth to Water: <u>7.20</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200 ml/min Pump Depth: 14.00

Time	Temp. <u>Ⓟ</u> or "F)	pH	Cond. (mS or <u>Ⓟ</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>Ⓟ</u>)	Depth to Water
1019	25.9	7.4	5884	40	1.2	-3.8	600	7.20
1022	25.7	7.4	5955	33	1.1	-2.9	1200	7.20
1025	25.6	7.4	5992	31	1.0	-4.3	1800	7.20
1028	25.4	7.4	6027	25	0.4	-2.4	2400	7.20
1031	25.4	7.4	6029	24	0.4	-2.3	3000	7.20
1034	25.4	7.4	6021	25	0.4	-3.1	3600	7.20

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>3.6L</u>
Sampling Time: <u>1040</u>	Sampling Date: <u>07-21-09</u>
Sample I.D.: <u>BD131-MW6</u>	Laboratory: <u>Calscience</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See S.O.W.</u>	
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>020720-001</u>	Client: <u>Geosyntec</u>
Sampler: <u>SK</u>	Start Date: <u>7.22.09</u>
Well I.D.: <u>BLD131-MW2</u>	Well Diameter: <u>6</u> 3 4 6 8 _____
Total Well Depth: <u>14.51</u>	Depth to Water: <u>7.02</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>ve</u> Grade	Flow Cell Type: <u>YS1556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Blackler Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200ml/min Pump Depth: 13 1/4

Begin Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water
1119	25.29	6.74	3142	12	0.70	-70.4	600	7.14
1122	24.40	6.76	3142	12	0.57	-69.9	1200	7.17
1125	24.44	6.74	3140	13	0.44	-64.2	1400	7.17
1128	24.36	6.73	3134	13	0.45	-67.4	2400	7.19
1131	24.26	6.72	3134	14	0.43	-67.4	3000	7.19
1134	24.16	6.72	3144	13	0.39	-64.3	3600	7.20

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: <u>3.6L</u>
Sampling Time: <u>1139</u>	Sampling Date: <u>7.22.09</u>
Sample I.D.: <u>BLD131-MW2</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See CCL</u>	
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>090720-001</u>	Client: <u>Geosyntec</u>
Sampler: <u>SK</u>	Start Date: <u>7-22-09</u>
Well I.D.: <u>BLD131-MW3</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>14.46</u>	Depth to Water: <u>6.93</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>EVC</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200 ml/min Pump Depth: 13ft

Begin Time	Temp. (C or F)	pH	Cond. (mS or uS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or L)	Depth to Water
1025	24.65	6.93	4312	11	0.90	-68.4	600	7.20
1028	24.01	6.87	4309	10	0.61	-73.1	1200	7.16
1031	23.82	6.45	4290	10	0.56	-76.0	1800	7.11
1034	23.72	6.85	4279	10	0.55	-77.2	2400	7.12
1037	23.62	6.55	4244	10	0.50	-81.0	3000	7.12
1040	23.59	6.86	4223	10	0.46	-83.3	3600	7.12

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>3.6L</u>
Sampling Time: <u>1045</u>	Sampling Date: <u>7-22-09</u>
Sample I.D.: <u>BLD131-MW3</u>	Laboratory: <u>Scienc</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>see C.O.C.</u>	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>090720-001</u>	Client: <u>GEOSYNTEC</u>
Sampler: <u>SLC</u>	Start Date: <u>7-20-09</u>
Well I.D.: <u>BLD131-1164</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>13.70</u>	Depth to Water: <u>6.79</u>
Depth to Free Product: <u>-</u>	Thickness of Free Product (feet): <u>-</u>
Referenced to: <u>RVC</u> Grade	Flow Cell Type: <u>YS1556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200 mL/min Pump Depth: 12 ft

Begin Time	Temp. (C or F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
<u>0423</u>	<u>76.04</u>	<u>7.02</u>	<u>1441</u>	<u>51</u>	<u>0.67</u>	<u>-35.6</u>	<u>600</u>	<u>6.71</u>
<u>0426</u>	<u>75.39</u>	<u>7.03</u>	<u>1444</u>	<u>34</u>	<u>0.64</u>	<u>-40.1</u>	<u>1200</u>	<u>6.86</u>
<u>0429</u>	<u>75.04</u>	<u>7.02</u>	<u>1444</u>	<u>26</u>	<u>0.56</u>	<u>-42.6</u>	<u>1800</u>	<u>6.71</u>
<u>0432</u>	<u>74.83</u>	<u>7.02</u>	<u>1443</u>	<u>17</u>	<u>0.47</u>	<u>-34.4</u>	<u>2400</u>	<u>6.71</u>
<u>0435</u>	<u>74.74</u>	<u>7.01</u>	<u>1443</u>	<u>20</u>	<u>0.45</u>	<u>-40.1</u>	<u>3000</u>	<u>6.72</u>
<u>0438</u>	<u>74.72</u>	<u>6.99</u>	<u>1440</u>	<u>19</u>	<u>0.42</u>	<u>-34.5</u>	<u>3600</u>	<u>6.71</u>
<u>0441</u>	<u>74.62</u>	<u>6.99</u>	<u>1440</u>	<u>18</u>	<u>0.40</u>	<u>-35.1</u>	<u>4200</u>	<u>6.71</u>

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>4.26</u>
Sampling Time: <u>0446</u>	Sampling Date: <u>7-22-09</u>
Sample I.D.: <u>BLD131-1164</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See C.O.C.</u>	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>040720-CD1</u>	Client: <u>Geosyntec</u>
Sampler: <u>GR</u>	Start Date: <u>7-22-09</u>
Well I.D.: <u>BLD131-MWS</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>1355</u>	Depth to Water: <u>7.94</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>KVC</u> Grade	Flow Cell Type: <u>V51556</u>

Purge Method: <u>2" Grundfos Pump</u>	<input type="checkbox"/> Peristaltic Pump	<input checked="" type="checkbox"/> Bladder Pump
Sampling Method: <u>Dedicated Tubing</u>	<input checked="" type="checkbox"/> New Tubing	<input type="checkbox"/> Other _____
Flow Rate: <u>200 ml/min</u>	Pump Depth: <u>12 ft</u>	

Begins Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water
<u>0731</u>	<u>25.14</u>	<u>6.99</u>	<u>4436</u>	<u>175</u>	<u>2.54</u>	<u>-66.7</u>	<u>600</u>	<u>7.95</u>
<u>0734</u>	<u>25.11</u>	<u>7.03</u>	<u>4474</u>	<u>140</u>	<u>2.44</u>	<u>-61.4</u>	<u>1200</u>	<u>8.08</u>
<u>0737</u>	<u>24.97</u>	<u>7.05</u>	<u>4924</u>	<u>135</u>	<u>2.30</u>	<u>-53.2</u>	<u>1400</u>	<u>8.05</u>
<u>0740</u>	<u>24.46</u>	<u>7.05</u>	<u>4957</u>	<u>131</u>	<u>2.16</u>	<u>-53.1</u>	<u>2400</u>	<u>8.05</u>
<u>0743</u>	<u>24.40</u>	<u>7.04</u>	<u>4040</u>	<u>106</u>	<u>2.14</u>	<u>-50.0</u>	<u>3000</u>	<u>7.95</u>
<u>0746</u>	<u>24.57</u>	<u>7.04</u>	<u>5000</u>	<u>99</u>	<u>2.09</u>	<u>-44.7</u>	<u>3600</u>	<u>7.95</u>
<u>0749</u>	<u>24.95</u>	<u>7.06</u>	<u>5000</u>	<u>97</u>	<u>2.21</u>	<u>-60.9</u>	<u>4200</u>	<u>7.96</u>

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>4.2 L</u>
Sampling Time: <u>0754</u>	Sampling Date: <u>7-22-09</u>
Sample I.D.: <u>BLD131-MWS</u>	Laboratory: <u>Cal Science</u>
Analyzed for: <input type="checkbox"/> TPH-G <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> TPH-D	Other: <u>See C.O.C.</u>
Equipment Blank I.D.: _____ @ _____ time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

B. 1/2

Project #: 090720-001	Client: Geosyntec
Sampler: SL	Start Date: 7-20-09
Well I.D.: BLD1526-MW1	Well Diameter: 2 3 4 6 8
Total Well Depth: 14.97	Depth to Water: 6.76
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: IUC Grade	Flow Cell Type: VSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Flow Rate: 200 mL/min Pump Depth: 11 ft

Time	Temp. (C or F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1110	- Begin Purge -							
1113	19.76	6.49	1916571	150	0.54	64.6	600	6.87
1116	19.51	6.46	14124	134	0.55	63.2	1200	6.85
1119	19.39	6.44	11690	102	1.20	63.7	1800	6.80
1122	19.37	6.43	10113	77	1.55	64.3	2400	6.76
1125	19.30	6.41	9220	67	1.43	63.4	3000	6.80
1128	19.29	6.47	8590	70	1.33	62.3	3600	6.87
1131	19.22	6.92	7975	70	1.44	59.4	4200	6.84
1134	19.20	6.95	7690	62	1.56	57.7	4800	6.85
1137	19.14	6.97	7530	54	1.69	56.2	5400	6.84

Did well dewater? Yes No Amount actually evacuated: 8.4 L

Sampling Time: 1157 Sampling Date: 7-20-09

Sample I.D.: BLD1526-MW1 Laboratory: Cal Science

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC.

Equipment Blank I.D.: @ Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET Pg. 2/2

Project #: <u>090420-001</u>	Client: <u>Greenspring</u>
Sampler: <u>SK</u>	Start Date: <u>7/20/09</u>
Well I.D.: <u>BLD158-MW1</u>	Well Diameter: <u>6</u> 3 4 6 8 _____
Total Well Depth: <u>14.97</u>	Depth to Water: <u>6.76</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>VC</u> Grade	Flow Cell Type: <u>VS1556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200.0/min Pump Depth: 11 ft.

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
→ 1140	19.15	6.97	7421	42	1.84	54.5	6000	6.85
1143	19.12	6.97	7452	33	1.87	53.8	6600	6.84
1146	19.11	6.97	7460	29	1.85	53.6	7200	6.85
1149	19.09	6.96	7502	26	1.86	52.6	7800	6.84
1152	19.06	6.96	7517	27	1.83	52.1	8400	6.84
1155							9000	

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: <u>8.4L</u>
Sampling Time: <u>1157</u>	Sampling Date: <u>7.20.09</u>
Sample I.D.: <u>BLD158-MW1</u>	Laboratory: <u>CalScience</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See COC</u>	
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090120-CD	Client: Geosyntec
Sampler: CD	Start Date: 07-20-09
Well I.D.: BID158-MW2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 16.56	Depth to Water: 6.84
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Flow Rate: 200 ml/min Pump Depth: 15.56

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1113	24.6	7.6	8372	>1,000	3.7	116.1	600	6.90
1116	24.4	7.7	7621	>1,000	3.4	101.3	1200	6.92
1119	24.3	7.7	6503	>1,000	3.2	86.6	1800	6.92
1122	24.3	7.7	5154	>1,000	3.1	77.7	2400	6.92
1125	24.3	7.6	4744	>1,000	2.8	73.4	3000	6.92
1128	24.4	7.6	4726	>1,000	2.5	72.9	3600	6.92
1131	24.5	7.6	4597	>1,000	2.2	71.5	4200	6.92
1134	24.5	7.5	4660	>1,000	2.2	71.2	4800	6.92
1137	24.4	7.5	4750	>1,000	2.2	70.6	5400	6.92
1140	24.4	7.5	4891	>1,000	2.2	69.6	6000	6.92

Did well dewater? Yes (No)	Amount actually evacuated: 10.2L
Sampling Time: 1205	Sampling Date: 07-20-09
Sample I.D.: BID158-MW2	Laboratory: CabScience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See S.O.W.
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>A0720-CD1</u>	Client: <u>Geosyntec</u>
Sampler: <u>CD</u>	Start Date: <u>07.20.09</u>
Well I.D.: <u>BID158-MW2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>16.56</u>	Depth to Water: <u>6.84</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200 mL/min Pump Depth: 15'

Time	Temp. (°C or °F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u>)	Depth to Water
1143	24.4	7.5	4915	546	1.9	67.4	6600	6.92
1146	24.4	7.5	5086	231	1.1	69.0	7200	6.92
1149	24.5	7.5	5087	185	1.3	67.0	7800	6.92
1152	24.5	7.4	5143	159	1.5	65.7	8400	6.92
1155	24.5	7.4	5160	133	1.4	64.9	9000	6.92
1158	24.5	7.4	5198	121	1.3	63.8	9600	6.92
1201	24.5	7.4	5303	119	1.3	63.0	10200	6.92

Did well dewater? Yes No Amount actually evacuated: 10.2L

Sampling Time: 1205 Sampling Date: 07-20-09

Sample I.D.: BID158-MW2 Laboratory: Calscience

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See S.O.W.

Equipment Blank I.D.: @ _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET pg. 1 of 2

Project #: <u>090720-001</u>	Client: <u>FreeSyntec</u>
Sampler: <u>SK</u>	Start Date: <u>7-20-09</u>
Well I.D.: <u>BLD150-MW2</u>	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 _____
Total Well Depth: <u>1335</u>	Depth to Water: <u>6.40</u>
Depth to Free Product: <u>-</u>	Thickness of Free Product (feet): <u>-</u>
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____

Flow Rate: 200 mL/min Pump Depth: 10 ft

0734 Begin Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
0737	23.89	6.79	6275	7100	0.68	-99.2	600	6.91
0740	23.97	6.78	6271	7100	0.70	-99.4	1200	6.91
0743 0743	23.99	6.76	6266	7100 505	0.67	-101.3	1500	6.88
0746	23.97	6.75	6256	657	0.61	-101.4	2400	6.87
0749	23.98	6.74	6230	506	0.53	-104.8	3000	6.88
0752	23.98	6.73	6206	392	0.48	-110.4	3600	6.89
0755	23.98	6.72	6185	329	0.47	-112.7	4200	6.89
0758	23.99	6.72	6164	253	0.41	-119.3	4800	6.89
0801	24.00	6.71	6144	224	0.41	-120.4	5400	6.89
0804	23.98	6.71	6131	174	0.37	-131.4	6000	6.89
0807	23.97	6.71	6118	159	0.36	-136.4	6600	6.93
0810	23.93	6.70	6101	131	0.34	-140.7	7200	6.96
0813	23.93	6.69	6083	104	0.32	-146.5	7800	6.95
0816	23.94	6.69	6077	106	0.32	-151.3	8400	6.95 →

Did well dewater? Yes No Amount actually evacuated: 9L

Sampling Time: 0824 Sampling Date: 7-21-09

Sample I.D.: BLD150-MW2 Laboratory: Cal Science

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See C.O.C.

Equipment Blank I.D.: _____ Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET Pg. 2 of 2

Project #: <u>090720-921</u>	Client: <u>Greensytec</u>
Sampler: <u>SK</u>	Start Date: <u>7.20.09</u>
Well I.D.: <u>BLD180-MW2</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth: <u>13.35</u>	Depth to Water: <u>6.40</u>
Depth to Free Product: <u>-</u>	Thickness of Free Product (feet): <u>-</u>
Referenced to: <u>PGC</u> Grade	Flow Cell Type: <u>YS1556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200ml/min Pump Depth: 10ft

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
<u>0819</u>	<u>23.47</u>	<u>6.64</u>	<u>6067</u>	<u>1.07%</u>	<u>0.30</u>	<u>155.4</u>	<u>9000</u>	<u>6.97</u>

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>9L</u>
Sampling Time: <u>0824</u>	Sampling Date: <u>7.21.09</u>
Sample I.D.: <u>BLD180-MW2</u>	Laboratory: <u>Cal Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D Other: <u>See C.O.C.</u>	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090720-01	Client: Geosyntec
Sampler: \odot	Start Date: 07-20-09
Well I.D.: FMY-MWI	Well Diameter: \odot 3 4 6 8 _____
Total Well Depth: 14.02	Depth to Water: 6.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 100 mL/min Pump Depth: 13.02

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
0709	26.6	6.7	4988	265	3.7	-43.7	300	7.15
0712	26.4	6.7	5004	180	1.0	-52.4	600	7.33
0715	26.3	6.7	5011	168	0.7	-54.1	900	7.36
0718	26.0	6.7	5022	169	0.4	-51.8	1200	7.54
0721	26.0	6.6	5043	173	0.4	-51.4	1500	7.56
0724	26.0	6.6	5057	174	0.46	-51.1	1800	7.58

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 1.8L
Sampling Time: 0729	Sampling Date: 07-21-09
Sample I.D.: FMY-MWI	Laboratory: Calscience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See S.O.W.
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090720-01	Client: Geosyntec
Sampler: D	Start Date: 07-20-09
Well I.D.: MWCL-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 42.20	Depth to Water: 7.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: Yes 656

Purge Method: 2" Grundfos Pump Peristaltic Pump (Bladder Pump)

Sampling Method: Dedicated Tubing (New Tubing) Other

Flow Rate: 100 mL/min Pump Depth: 41.00

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (mL))	Depth to Water
1351	25.86	7.0	46.44	180	0.6	-6.8	300	7.16
1354	25.9	7.0	45.58	206	0.5	-6.3	600	7.15
1357	25.9	7.0	46.80	207	0.5	-6.2	900	7.15
131400	26.1	6.9	48.11	156	0.4	-6.0	1200	7.15
1403	26.1	6.9	48.20	130	0.4	-2.4	1500	7.15
1406	26.1	6.9	48.24	125	0.4	-0.9	1800	7.15
1409	26.0	6.9	48.38	121	0.4	+1.4	2100	7.15

Did well dewater? Yes (No)	Amount actually evacuated: 2.1L
Sampling Time: 1420	Sampling Date: 07-20-09
Sample I.D.: MWCL-1	Laboratory: CalScience
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See S.O.W.
Equipment Blank I.D.: QCEB-1 @ Time: 1445	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090720-01	Client: Geosyntec
Sampler: CD	Start Date: 07-20-09
Well I.D.: MWCL-2	Well Diameter: (2) 3 4 6 8
Total Well Depth: 14.20	Depth to Water: 6.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVP) Grade	Flow Cell Type: YSI-556

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200 mL/min Pump Depth: 13.0

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1219	26.4	7.5	19.85	195	1.3	20.1	6.65 600	6.65
1222	26.9	7.5	20.29	133	0.5	13.2	1200	6.65
1225	27.0	7.5	20.31	107	0.5	12.3	1800	6.65
1228	27.1	7.5	20.34	84	0.4	11.2	2400	6.65
1231	26.2	7.5	19.76	60	0.8	11.1	3000	6.65
1234	26.0	7.5	19.64	46	0.6	9.4	3600	6.65
1237	25.9	7.5	19.57	42	0.5	9.4	4200	6.65
1240	25.8	7.5	19.53	44	0.5	9.5	4800	6.65

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 4.8L
Sampling Time: 1255	Sampling Date: 07-21-09
Sample I.D.: MWCL-2	Laboratory: Calscience / Columbia
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
Equipment Blank I.D.: @ _____	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 090720-001	Client: Geosyntec
Sampler: <u>D</u>	Start Date: 07-20-09
Well I.D.: MWCL-3	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: 43.40	Depth to Water: 10.12
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSE 556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump

Sampling Method: Dedicated Tubing New Tubing Other _____

Flow Rate: 100ml/min Pump Depth: 42.00

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>l</u>)	Depth to Water
1243	25.6	7.1	85.67	36	0.82	-11.3	300	10.05
1246	25.7	7.1	85.64	38	0.7	-17.6	600	10.11
1249	25.6	7.1	85.73	43	1.2	-20.7	900	10.25
1252	26.2	7.0	86.53	41	0.7	-16.7	1200	10.24
1255	26.3	7.0	87.08	43	0.6	-15.6	1500	10.22
1258	26.3	7.0	87.40	42	0.6	-14.3	1800	10.22

Did well dewater? Yes <u>No</u>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: 1310	Sampling Date: 07-20-09
Sample I.D.: MWCL-3	Laboratory: <u>Calscience</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See S.O.W.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>090720-001</u>	Client: <u>Geosyntec</u>
Sampler: <u>6K</u>	Start Date: <u>7-20-09</u>
Well I.D.: <u>MWCL-4</u>	Well Diameter: <u>6</u> 3 4 6 8 _____
Total Well Depth: <u>14.90</u>	Depth to Water: <u>8.15</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>(VVC) Grade</u>	Flow Cell Type: <u>YS1556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 200cc/min Pump Depth: 131'

Begin 1332 Time	Temp. (C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1335	25.04	6.45	1407	24	0.72	-12.1	600	8.08
1338	25.10	6.46	1409	33	0.88	-12.1	1150 1200	8.09
1341	24.10	6.92	1799	73	2.15	-11.0	1800	8.19
1344	24.04	6.94	1796	76	2.75	-10.3	2400	8.21
1347	24.01	6.93	1796	69	2.96	-9.4	3000	8.24
1350 1352	23.94	6.90	1796	37	2.21	-10.4	3600	8.25
1353	23.95	6.87	1791	18	1.62	-11.5	4200	8.15
1356	23.96	6.87	1790	11	1.49	-12.0	4800	8.19
1359	23.94	6.87	1789	10	1.34	-12.3	5400	8.16
1402	23.91	6.87	1789	10	1.37	-12.5	6000	8.18

Did well dewater? Yes No Amount actually evacuated: 6L

Sampling Time: 1407 Sampling Date: 7-21-09

Sample I.D.: MWCL-4 Laboratory: Cal Science

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: Q00B-4 @ 1440 Duplicate I.D.: _____

WELL MONITORING DATA SHEET

Project #: <u>0910720-C101</u>	Site: <u>Greensync @ Teledyne Ryan</u>
Sampler: <u>SK</u>	Date: <u>7-20-09</u>
Well I.D.: <u>MWCL-5</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth (TD): <u>42.60</u>	Depth to Water (DTW): <u>12.40</u>
Depth to Free Product: <u>-</u>	Thickness of Free Product (feet): <u>-</u>
Referenced to: <u>(VC)</u> Grade	Flow Cell Type: <u>YSI 556</u>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>14.74</u>	

Purge Method: Water Sampling Method:

Disposable Bailer 2" Redilo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other Dedicated Tubing

Flow Rate = _____

<u>4.75</u> (Gals.) X	<u>3</u>	= <u>14.3</u> Gals.
Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
<u>2"</u>	<u>0.16</u>	6"	1.17
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Gals. Removed	Observations
1247	23.04	6.91	66804	10	5.20	21.2	5	DTW=36.61
		- Well dewatered @ 6561. -						37.55
		- SLOW RECHARGE -						
1447	24.7	6.89	69743	15	1.94	-5.6	-	

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Date: 7-20-09 Sampling Time: 1447 Depth to Water: 19.84

Sample I.D.: MWCL-5 Laboratory: Cal Science

Analyzed for: See C.O.C. Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>0910720-001</u>	Client: <u>Geosyntec</u>
Sampler: <u>SK</u>	Start Date: <u>7-20-09</u>
Well I.D.: <u>MWCL-6</u>	Well Diameter: <u>6</u> 3 4 6 8 _____
Total Well Depth: <u>14.90</u>	Depth to Water: <u>9.50</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>KVC</u> Grade	Flow Cell Type: <u>VSI 5/6</u>

Purge Method: <u>2" Grundfos Pump</u>	Peristaltic Pump	Bladder Pump
Sampling Method: <u>Dedicated Tubing</u>	New <u>Tubing</u>	Other _____
Flow Rate: <u>200 ml/min</u>	Pump Depth: <u>13.5 ft</u>	

Begin Time	Temp. (C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or μ L)	Depth to Water
1227	24.16	6.99	4056	25	1.94	-13.2	600	9.58
1230	23.50	6.97	4053	19	1.70	-12.6	1200	9.52
1233	23.24	6.90	4044	15	1.64	-11.0	1400	9.53
1236	23.26	6.89	4034	12	1.81	-9.8	2400	9.53
1239	23.04	6.88	4040	13	1.94	-9.1	3000	9.52
1242	22.99	6.84	4044	13	2.06	-8.6	3600	9.52

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>36L</u>
Sampling Time: <u>1247</u>	Sampling Date: <u>7-21-09</u>
Sample I.D.: <u>MWCL-6</u>	Laboratory: <u>Cell Science</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See C.O.C.</u>
Equipment Blank I.D.: _____	Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

pg. 1 of 2

Project #: <i>910720-001</i>	Client: <i>Geosyntec</i>
Sampler: <i>SK</i>	Start Date: <i>7-20-09</i>
Well I.D.: <i>MWCL-7</i>	Well Diameter: <i>6</i> 3 4 6 8
Total Well Depth: <i>65.00</i>	Depth to Water: <i>9.68</i>
Depth to Free Product: <i>—</i>	Thickness of Free Product (feet): <i>—</i>
Referenced to: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Grade	Flow Cell Type: <i>VSISSL</i>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other
 Flow Rate: *200ml/min* Pump Depth: *60ft*

<i>1304 basin</i>	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
1311	23.42	7.13	15626	1	3.58	-1.0	600	10.10
1314	23.28	7.03	16099	1	3.30	-0.1	1200	10.11
1317	23.67	6.92	17369	1	2.23	-0.2	1800	10.11
1320	23.62	6.84	18618	1	1.35	-0.9	2400	10.19
1323	23.46	6.76	19179	1	1.07	-1.1	3000	10.21
1326	23.39	6.74	20292	1	1.06	-1.3	3600	10.22
1329	23.29	6.70	21428	1	1.07	-1.3	4200	10.26
1332	23.44	6.67	22282	1	0.99	-1.5	4800	10.28
1335	23.49	6.65	23328	1	0.97	-1.9	5400	10.29
1336	23.15	6.64	24539	1	0.94	-2.1	6000	10.31

Did well dewater? Yes No Amount actually evacuated: *12L*

Sampling Time: *1413* Sampling Date: *7-20-09*

Sample I.D.: *MWCL-7* Laboratory: *CEL Science*

Analyzed for: TPH-G BTEX MTBE TPH-D Other: *See COC*

Equipment Blank I.D.: *Q100-2* @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET *pg. 2 of 2*

Project #: <i>090720</i>	Client: <i>Geosyntec</i>
Sampler: <i>SK</i>	Start Date: <i>7-20-09</i>
Well I.D.: <i>MWLL-7</i>	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 _____
Total Well Depth: <i>65.00</i>	Depth to Water: <i>9.68</i>
Depth to Free Product: <i>—</i>	Thickness of Free Product (feet): <i>—</i>
Referenced to: <input checked="" type="checkbox"/> <i>RVC</i> Grade	Flow Cell Type: <i>YS1556</i>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: *200ml/min* Pump Depth: *60 FT*

Time	Temp. (C or F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water
<i>1341</i>	<i>23.07</i>	<i>6.62</i>	<i>25439</i>	<i>1</i>	<i>0.90</i>	<i>-2.0</i>	<i>6600</i>	<i>10.31</i>
<i>1344</i>	<i>22.92</i>	<i>6.61</i>	<i>27020</i>	<i>1</i>	<i>0.85</i>	<i>-1.8</i>	<i>7200</i>	<i>10.33</i>
<i>1347</i>	<i>23.18</i>	<i>6.60</i>	<i>27448</i>	<i>1</i>	<i>0.79</i>	<i>-1.8</i>	<i>7800</i>	<i>10.35</i>
<i>1350</i>	<i>23.21</i>	<i>6.59</i>	<i>24352</i>	<i>1</i>	<i>0.70</i>	<i>-2.0</i>	<i>8400</i>	<i>10.34</i>
<i>1353</i>	<i>23.14</i>	<i>6.60</i>	<i>30339</i>	<i>1</i>	<i>0.71</i>	<i>-2.0</i>	<i>9000</i>	<i>10.35</i>
<i>1356</i>	<i>23.10</i>	<i>6.61</i>	<i>3154</i>	<i>1</i>	<i>0.67</i>	<i>-2.1</i>	<i>9600</i>	<i>10.35</i>
<i>1359</i>	<i>23.03</i>	<i>6.60</i>	<i>33791</i>	<i>1</i>	<i>0.64</i>	<i>-2.0</i>	<i>10200</i>	<i>10.39</i>
<i>1402</i>	<i>23.22</i>	<i>6.59</i>	<i>35412</i>	<i>1</i>	<i>0.59</i>	<i>-1.8</i>	<i>10800</i>	<i>10.40</i>
<i>1405</i>	<i>23.39</i>	<i>6.59</i>	<i>36511</i>	<i>1</i>	<i>0.58</i>	<i>-2.0</i>	<i>11400</i>	<i>10.43</i>
<i>1408</i>	<i>23.37</i>	<i>6.59</i>	<i>36870</i>	<i>1</i>	<i>0.52</i>	<i>-2.2</i>	<i>12000</i>	<i>10.45</i>

Did well dewater? Yes No Amount actually evacuated: *12 L*
 Sampling Time: *1413* Sampling Date: *7-20-09*
 Sample I.D.: *MWLL-7* Laboratory: *See LOC*
 Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____
 Equipment Blank I.D.: *QCEB-2* @ Time Duplicate I.D.: _____

LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>090720-001</u>	Client: <u>Geosyntec</u>
Sampler: <u>CD</u>	Start Date: <u>07-20-09</u>
Well I.D.: <u>MWCL-8R</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>12.29</u>	Depth to Water: <u>7.93</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVE)</u> Grade	Flow Cell Type: <u>VSI-556</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump
 Sampling Method: Dedicated Tubing New Tubing Other _____
 Flow Rate: 100 mL/min Pump Depth: 11.29

Time	Temp. (°C or °F)	pH	Cond. (mS or μ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or (ml))	Depth to Water
1324	27.1	7.2	6260	194	2.0	66.8	300	8.10
1327	27.0	7.2	6005	179	1.8	68.7	600	8.15
1330	26.3	7.1	5737	79	2.0	70.8	900	8.17
1333	26.3	7.1	5672	68	2.1	70.6	1200	8.18
1336	26.2	7.1	5580	45	1.0	70.2	1500	8.20
1339	26.0	7.1	5567	40	1.0	70.2	1800	8.20
1342	25.8	7.1	5557	28	0.9	69.5	2100	8.20
1345	25.7	7.1	5597	25	0.9	69.7	2400	8.20
1348	25.7	7.1	5594	20	0.8	69.5	2700	8.20
1351	25.6	7.1	5569	17	0.8	69.2	3000	8.20
1354	25.5	7.1	5489	13	0.7	68.7	3300	8.20
1357	25.6	7.1	5482	12	0.7	68.0	3600	8.20
1400	25.6	7.1	5479	12	0.7	67.7	3900	8.20

Did well dewater? Yes No Amount actually evacuated: 3.9L

Sampling Time: 1425 Sampling Date: 07-21-09

Sample I.D.: MWCL-8R Laboratory: Calscience / Columbia

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See S.O.W.

Equipment Blank I.D.: 0003-3 Duplicate I.D.: _____

WELLHEAD INSPECTION CHECKLIST

Client Geosyntec Date 07-20-09

Site Address 2701 N. Harbor Dr San Diego

Job Number 090720-01 Technician CD

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
BLD120-MW1			X							X
BLD120-MW2		X	X							X
BLD120-MW3		X	X							X
BLD120-MW4		X	X							X
BLD120-MW5		X	X							X
BLD120-MW6		X	X							X
BLD120-MW7	X	X	X							
BLD120-MW8	X	X	X							
BLD120-MW9	X	X	X							
BLD131-MW1	X	X	X							
BLD131-MW2	X	X	X							
BLD131-MW20	X	X	X							
BLD131-MW3	X	X	X							
BLD131-MW30	X	X	X							
BLD131-MW4	X	X	X							
BLD131-MW5	X	X	X							

NOTES: _____

WELLHEAD INSPECTION CHECKLIST

Client Blaine Tech Date 7-20-08

Site Address 2701 N. Harbor Pt. S.P.

Job Number 04072-CD1 Technician CD

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
BLD131-MW6	X	X	X							
BLD140-MW1	X	X	X							
BLD140-MW2	X	X	X							
BLD102-MW3	X	X	X							
BLD102-MW4			X							X
BLD102-MW5			X							X
BLD102-MW6			X							X
BLD156-MW1										X
MWCL-1	X	X	X							
MWCL-2	X	X	X							
MWCL-3	X	X	X							
MWCL-4			X							X
MWCL-5	X	X	X							
MWCL-6	X	X	X							
MWCL-7	X	X	X							
MWCL-8P	X	X	X							

NOTES: _____

WELLHEAD INSPECTION CHECKLIST

Client Geosyntec Date 07-22-05

Site Address 2701 N. Harbor Dr. S.D.

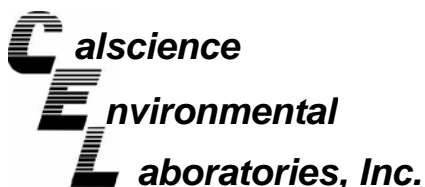
Job Number 090720-001 Technician CD

Well ID	Well Inspected - No Corrective Action Required	WELL IS SECURABLE BY DESIGN (12" or less)	WELL IS CLEARLY MARKED WITH THE WORDS "MONITORING WELL" (12" or less)	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
GTY			X							X
B158-mw1	X	X	X							
B158-mw2	X	X	X							
ArenD-mw1	X	X	X							
ArenD-mw2	X	X	X							
FAN-mw1		X	X							X
P2			X							X

NOTES: _____

APPENDIX D

PDF Copy of Groundwater Monitoring
Report, 3rd Quarter 2009, including
Laboratory Analytical Data (Compact Disc)



July 29, 2009

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 09-07-1618**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 07/20/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

CASE NARRATIVE

CalScience Work Order No.: 09-07-1618

Data Summary

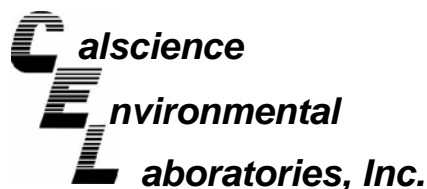
EPA 8270C SIM PAHs

Blanks

The method blank data showed non-detectable levels, with the exception of trace levels of select constituents. Any affected sample results have been flagged with a "B" qualifier. Note the presence of these constituents is attributed to laboratory contamination and, therefore, the results are released without further action or clarification. Please see Table A below for details:

Table A: Trace levels present in associated method blanks	
EPA 8270C SIM PAHs	
Batch #	Analyte(s)
090722L03	Di-n-Butyl Phthalate





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

Page 1 of 3

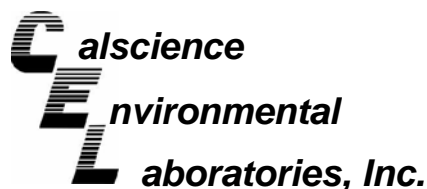
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-7	09-07-1618-2-E	07/20/09 14:13	Aqueous	ICP 5300	07/21/09	07/22/09 14:36	090721LA1F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

-Mercury was analyzed on 07/24/2009 7:38:22 PM with batch 090724L04F

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00209	1		mg/L
Arsenic	0.00391	0.0100	0.00308	1	J	mg/L
Barium	0.130	0.0100	0.000719	1		mg/L
Beryllium	ND	0.00100	0.000176	1		mg/L
Cadmium	0.000394	0.00500	0.000350	1	J	mg/L
Chromium	0.0748	0.00500	0.000350	1		mg/L
Cobalt	0.0106	0.00500	0.000696	1		mg/L
Copper	0.00251	0.00500	0.00134	1	J	mg/L
Lead	0.00306	0.0100	0.00236	1	J	mg/L
Mercury	ND	0.000500	0.0000177	1		mg/L
Molybdenum	0.0208	0.00500	0.000800	1		mg/L
Nickel	0.0115	0.00500	0.00137	1		mg/L
Selenium	0.00799	0.0150	0.00295	1	J	mg/L
Silver	0.00497	0.00500	0.000400	1	J	mg/L
Thallium	ND	0.0150	0.00233	1		mg/L
Vanadium	ND	0.00500	0.000314	1		mg/L
Zinc	0.167	0.0100	0.000848	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-5	09-07-1618-3-F	07/20/09 14:47	Aqueous	ICP 5300	07/21/09	07/22/09 14:37	090721LA1F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 07/24/2009 7:40:36 PM with batch 090724L04F

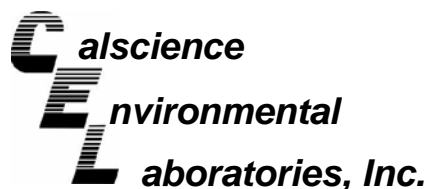
Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00209	1		mg/L
Arsenic	0.00969	0.0100	0.00308	1	J	mg/L
Barium	0.0497	0.0100	0.000719	1		mg/L
Beryllium	ND	0.00100	0.000176	1		mg/L
Cadmium	ND	0.00500	0.000350	1		mg/L
Chromium	0.0309	0.00500	0.000350	1		mg/L
Cobalt	0.00168	0.00500	0.000696	1	J	mg/L
Copper	0.00417	0.00500	0.00134	1	J	mg/L
Lead	0.00424	0.0100	0.00236	1	J	mg/L
Mercury	ND	0.000500	0.0000177	1		mg/L
Molybdenum	0.00225	0.00500	0.000800	1	J	mg/L
Nickel	ND	0.00500	0.00137	1		mg/L
Selenium	0.00699	0.0150	0.00295	1	J	mg/L
Silver	0.00590	0.00500	0.000400	1		mg/L
Thallium	ND	0.0150	0.00233	1		mg/L
Vanadium	0.00275	0.00500	0.000314	1	J	mg/L
Zinc	0.0169	0.0100	0.000848	1		mg/L

Method Blank	099-04-008-4,235	N/A	Aqueous	Mercury	07/24/09	07/24/09 18:03	090724L04F
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Mercury	ND	0.000500	0.0000177	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

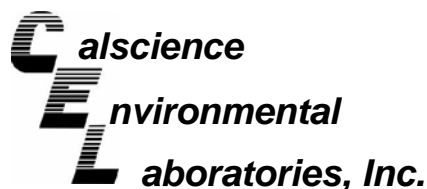
Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-003-9,575	N/A	Aqueous	ICP 5300	07/21/09	07/23/09 20:16	090721LA1F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00209	1		mg/L
Arsenic	ND	0.0100	0.00308	1		mg/L
Barium	ND	0.0100	0.000719	1		mg/L
Beryllium	ND	0.00100	0.000176	1		mg/L
Cadmium	ND	0.00500	0.000350	1		mg/L
Chromium	ND	0.00500	0.000350	1		mg/L
Cobalt	ND	0.00500	0.000696	1		mg/L
Copper	ND	0.00500	0.00134	1		mg/L
Lead	ND	0.0100	0.00236	1		mg/L
Molybdenum	ND	0.00500	0.000800	1		mg/L
Nickel	ND	0.00500	0.00137	1		mg/L
Selenium	ND	0.0150	0.00295	1		mg/L
Silver	ND	0.00500	0.000400	1		mg/L
Thallium	ND	0.0150	0.00233	1		mg/L
Vanadium	ND	0.00500	0.000314	1		mg/L
Zinc	ND	0.0100	0.000848	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD158-MW1	09-07-1618-1-A	07/20/09 11:57	Aqueous	ICP 5300	07/21/09	07/24/09 14:04	090721LA1A

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

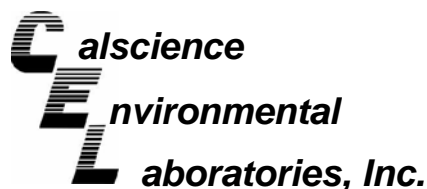
Parameter	Result	RL	MDL	DF	Qual	Units
Chromium	664	0.500	0.0350	100		mg/L

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-003-9,580	N/A	Aqueous	ICP 5300	07/21/09	07/23/09 20:16	090721LA1A

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Chromium	ND	0.00500	0.000350	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: N/A
Method: EPA 7196A

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD158-MW1	09-07-1618-1-B	07/20/09 11:57	Aqueous	UV 7	07/20/09	07/20/09 20:04	90720CRL1

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Chromium, Hexavalent	760	40	8.1	2000		mg/L

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-05-064-1,845	N/A	Aqueous	UV 7	07/20/09	07/20/09 20:04	90720CRL1

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Chromium, Hexavalent	ND	0.020	0.0040	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-7	09-07-1618-2-D	07/20/09 14:13	Aqueous	GC 27	07/22/09	07/22/09 18:35	090722B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	ND		0.0	1	
C7	ND		0.0	1		C23-C24	ND		0.0	1	
C8	ND		0.0	1		C25-C28	ND		0.0	1	
C9-C10	ND		0.0	1		C29-C32	ND		0.0	1	
C11-C12	ND		0.0	1		C33-C36	ND		0.0	1	
C13-C14	ND		0.0	1		C37-C40	ND		0.0	1	
C15-C16	ND		0.0	1		C41-C44	ND		0.0	1	
C17-C18	ND		0.0	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	98	68-140									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-5	09-07-1618-3-G	07/20/09 14:47	Aqueous	GC 27	07/22/09	07/22/09 18:53	090722B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	ND		0.0	1	
C7	ND		0.0	1		C23-C24	ND		0.0	1	
C8	ND		0.0	1		C25-C28	ND		0.0	1	
C9-C10	ND		0.0	1		C29-C32	ND		0.0	1	
C11-C12	ND		0.0	1		C33-C36	ND		0.0	1	
C13-C14	ND		0.0	1		C37-C40	ND		0.0	1	
C15-C16	ND		0.0	1		C41-C44	ND		0.0	1	
C17-C18	ND		0.0	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	92	68-140									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-308-1,145	N/A	Aqueous	GC 27	07/22/09	07/22/09 17:41	090722B01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
TPH as Diesel	ND	500	480	1	
Surrogates:	REC (%)	Control Limits			Qual
Decachlorobiphenyl	93	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-7	09-07-1618-2-F	07/20/09 14:13	Aqueous	GC/MS GG	07/22/09	07/24/09 11:17	090722L01D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	21	2.0	0.40	1		ug/L
Surrogates:	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Nitrobenzene-d5	82	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-5	09-07-1618-3-D	07/20/09 14:47	Aqueous	GC/MS GG	07/22/09	07/24/09 11:41	090722L01D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

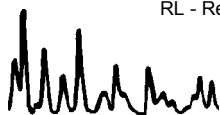
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Nitrobenzene-d5	71	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-09-004-1,295	N/A	Aqueous	GC/MS GG	07/22/09	07/23/09 12:28	090722L01D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Nitrobenzene-d5	117	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

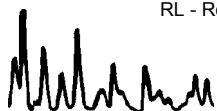
Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-7	09-07-1618-2-G	07/20/09 14:13	Aqueous	GC/MS MM	07/22/09	07/24/09 18:28	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	0.23	1.0	0.14	1	J
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	1.0	0.10	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	0.58	1.0	0.096	1	B,J
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	1.0	0.11	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	0.099	1.0	0.088	1	J
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	1.0	0.088	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
2,4,6-Tribromophenol	81	24-152				2-Fluorobiphenyl	59	33-144			
2-Fluorophenol	64	31-142				Nitrobenzene-d5	79	28-139			
p-Terphenyl-d14	78	23-160				Phenol-d6	61	30-136			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

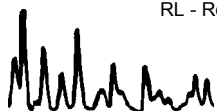
Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-5	09-07-1618-3-E	07/20/09 14:47	Aqueous	GC/MS MM	07/22/09	07/24/09 19:13	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	0.68	1.0	0.14	1	J
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	1.0	0.10	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	1.0	0.096	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	1.0	0.11	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	14	1.0	0.088	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	1.0	0.088	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
2,4,6-Tribromophenol	83	24-152				2-Fluorobiphenyl	58	33-144			
2-Fluorophenol	67	31-142				Nitrobenzene-d5	80	28-139			
p-Terphenyl-d14	77	23-160				Phenol-d6	65	30-136			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

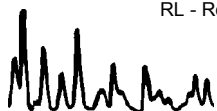
Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-430-67	N/A	Aqueous	GC/MS MM	07/22/09	07/28/09 11:44	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	1.0	0.14	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	1.0	0.10	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	0.17	1.0	0.096	1	J
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	1.0	0.11	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	1.0	0.088	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	1.0	0.088	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
2,4,6-Tribromophenol	66	24-152				2-Fluorobiphenyl	104	33-144			
2-Fluorophenol	42	31-142				Nitrobenzene-d5	94	28-139			
p-Terphenyl-d14	88	23-160				Phenol-d6	46	30-136			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

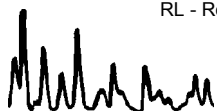
Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-7	09-07-1618-2-A	07/20/09 14:13	Aqueous	GC/MS RR	07/21/09	07/21/09 19:46	090721L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	1.7	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	0.79	1.0	0.33	1	J	t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	1.9	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	13	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	7.5	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Dibromofluoromethane	101	82-130				1,2-Dichloroethane-d4	103	75-141			
Toluene-d8	98	83-113				1,4-Bromofluorobenzene	95	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-5	09-07-1618-3-A	07/20/09 14:47	Aqueous	GC/MS RR	07/21/09	07/21/09 20:11	090721L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	3.8	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	103	82-130				1,2-Dichloroethane-d4	108	75-141			
Toluene-d8	98	83-113				1,4-Bromofluorobenzene	95	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

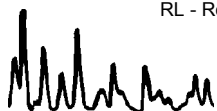
Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-2	09-07-1618-4-A	07/20/09 14:56	Aqueous	GC/MS RR	07/21/09	07/21/09 20:37	090721L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	100	82-130				1,2-Dichloroethane-d4	102	75-141			
Toluene-d8	98	83-113				1,4-Bromofluorobenzene	95	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

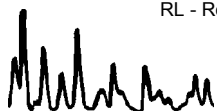
Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB-2	09-07-1618-5-A	07/20/09 11:00	Aqueous	GC/MS RR	07/21/09	07/21/09 21:02	090721L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	104	82-130				1,2-Dichloroethane-d4	107	75-141			
Toluene-d8	96	83-113				1,4-Bromofluorobenzene	93	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/20/09
 Work Order No: 09-07-1618
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

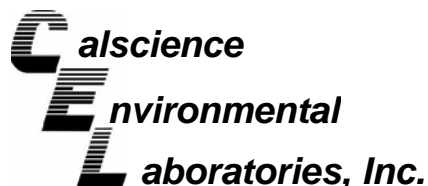
Page 5 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,188	N/A	Aqueous	GC/MS RR	07/21/09	07/21/09 14:30	090721L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	100	82-130				1,2-Dichloroethane-d4	102	75-141			
Toluene-d8	98	83-113				1,4-Bromofluorobenzene	96	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

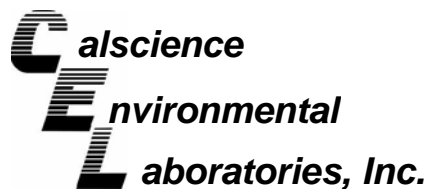
Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 3010A Total
Method: EPA 6010B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1632-2	Aqueous	ICP 5300	07/21/09	07/21/09	090721SA1

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	105	104	72-132	1	0-10	
Arsenic	108	107	80-140	1	0-11	
Barium	95	96	87-123	1	0-6	
Beryllium	90	91	89-119	1	0-8	
Cadmium	87	87	82-124	0	0-7	
Chromium	88	87	86-122	1	0-8	
Cobalt	88	87	83-125	1	0-7	
Copper	107	106	78-126	1	0-7	
Lead	85	85	84-120	0	0-7	
Molybdenum	4X	4X	78-126	4X	0-7	Q
Nickel	89	78	84-120	3	0-7	3
Selenium	113	108	79-127	3	0-9	
Silver	121	120	86-128	0	0-7	
Thallium	78	78	79-121	0	0-8	3
Vanadium	95	95	88-118	0	0-7	
Zinc	108	105	89-131	3	0-8	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSD



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

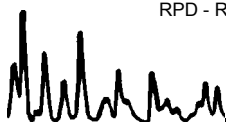
Date Received 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 3010A Total
Method: EPA 6010B

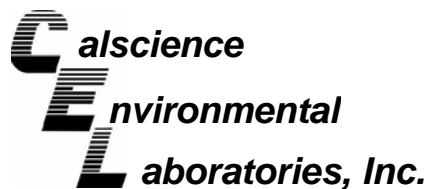
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
09-07-1632-2	Aqueous	ICP 5300	07/21/09	07/24/09	090721SA1

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	105	105	75-125	1	0-10	
Arsenic	107	107	75-125	0	0-11	
Barium	93	94	75-125	1	0-6	
Beryllium	76	77	75-125	1	0-8	
Cadmium	79	79	75-125	0	0-7	
Chromium	77	77	75-125	1	0-8	
Cobalt	78	78	75-125	1	0-7	
Copper	106	108	75-125	1	0-7	
Lead	77	77	75-125	0	0-7	
Molybdenum	4X	4X	75-125	4X	0-7	Q
Nickel	74	77	75-125	1	0-7	5
Selenium	118	118	75-125	0	0-9	
Silver	122	124	75-125	1	0-7	
Thallium	76	76	75-125	1	0-8	
Vanadium	83	84	75-125	1	0-7	
Zinc	106	104	75-125	2	0-8	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

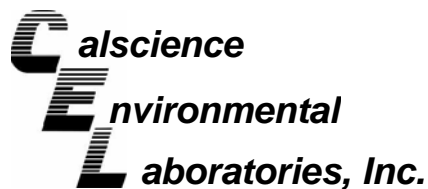
Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: N/A
Method: EPA 7196A

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1619-2	Aqueous	UV 7	07/20/09	07/20/09	90720CRS1

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	97	97	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

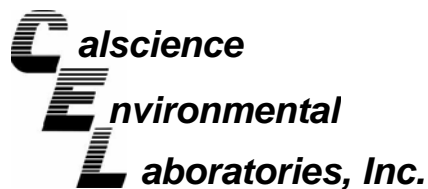
Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 245.1 Total
Method: EPA 245.1

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1967-2	Aqueous	Mercury	07/24/09	07/24/09	090724S04

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	105	104	57-141	2	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

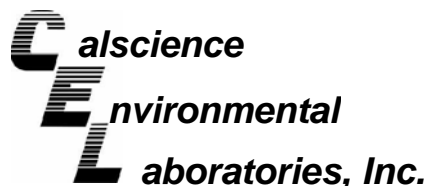
Date Received: 07/20/09
Work Order No: 09-07-1618
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1415-14	Aqueous	GC/MS RR	07/21/09	07/21/09	090721S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	105	104	88-118	1	0-7	
Carbon Tetrachloride	117	117	67-145	1	0-11	
Chlorobenzene	106	104	88-118	2	0-7	
1,2-Dibromoethane	105	104	70-130	1	0-30	
1,2-Dichlorobenzene	103	101	86-116	2	0-8	
1,1-Dichloroethene	111	110	70-130	1	0-25	
Ethylbenzene	107	104	70-130	3	0-30	
Toluene	104	104	87-123	1	0-8	
Trichloroethene	106	105	79-127	1	0-10	
Vinyl Chloride	93	98	69-129	5	0-13	
Methyl-t-Butyl Ether (MTBE)	100	103	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	99	97	36-168	2	0-45	
Diisopropyl Ether (DIPE)	94	95	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	96	99	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	102	72-126	1	0-12	
Ethanol	93	102	53-149	9	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1618
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
097-01-003-9,575	Aqueous	ICP 5300	07/21/09	07/21/09	090721LA1F		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Antimony	97	98	80-120	73-127	2	0-20	
Arsenic	97	98	80-120	73-127	1	0-20	
Barium	104	104	80-120	73-127	0	0-20	
Beryllium	98	98	80-120	73-127	0	0-20	
Cadmium	100	100	80-120	73-127	0	0-20	
Chromium	97	98	80-120	73-127	0	0-20	
Cobalt	106	107	80-120	73-127	2	0-20	
Copper	100	101	80-120	73-127	1	0-20	
Lead	103	104	80-120	73-127	1	0-20	
Molybdenum	98	100	80-120	73-127	2	0-20	
Nickel	102	104	80-120	73-127	2	0-20	
Selenium	92	94	80-120	73-127	2	0-20	
Silver	102	102	80-120	73-127	0	0-20	
Thallium	100	102	80-120	73-127	2	0-20	
Vanadium	98	98	80-120	73-127	0	0-20	
Zinc	99	102	80-120	73-127	3	0-20	

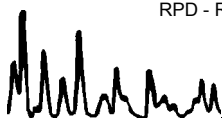
Total number of LCS compounds : 16

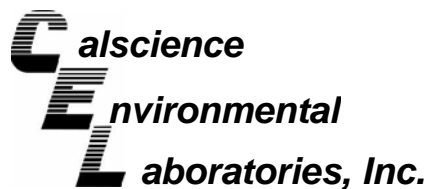
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1618
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-9,580	Aqueous	ICP 5300	07/21/09	07/21/09	090721LA1A

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chromium	97	98	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

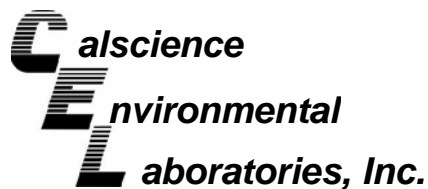
Date Received: N/A
 Work Order No: 09-07-1618
 Preparation: N/A
 Method: EPA 7196A

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-05-064-1,845	Aqueous	UV 7	07/20/09	NONE	90720CRL1

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Chromium, Hexavalent	0.500	0.488	98	80-120	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

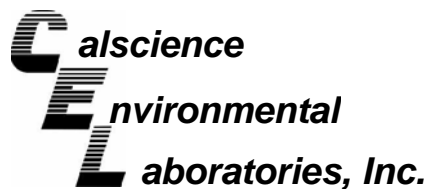
Date Received: N/A
Work Order No: 09-07-1618
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,145	Aqueous	GC 27	07/22/09	07/22/09	090722B01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	94	94	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

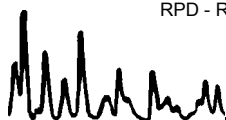
Date Received: N/A
 Work Order No: 09-07-1618
 Preparation: EPA 7470A Filt.
 Method: EPA 7470A

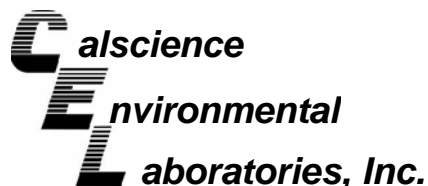
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,235	Aqueous	Mercury	07/24/09	07/24/09	090724L04F

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	97	96	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

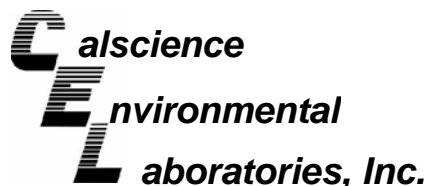
Date Received: N/A
Work Order No: 09-07-1618
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,295	Aqueous	GC/MS GG	07/22/09	07/23/09	090722L01D

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
1,4-Dioxane	106	100	50-130	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1618
Preparation: EPA 3510C
Method: EPA 8270C SIM

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-430-67	Aqueous	GC/MS MM	07/22/09	07/25/09	090722L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
2,4,5-Trichlorophenol	84	92	40-160	20-180	9	0-20	
2,4-Dichlorophenol	89	97	40-160	20-180	9	0-20	
2-Methylphenol	83	90	40-160	20-180	8	0-20	
2-Nitrophenol	82	88	40-160	20-180	7	0-20	
4-Chloro-3-Methylphenol	90	99	40-160	20-180	9	0-20	
Acenaphthene	74	81	55-121	44-132	9	0-15	
Benzo (a) Pyrene	83	95	17-163	0-187	13	0-20	
Chrysene	81	91	17-168	0-193	12	0-20	
Di-n-Butyl Phthalate	77	85	40-160	20-180	10	0-20	
Dimethyl Phthalate	77	86	40-160	20-180	11	0-20	
Fluoranthene	74	83	26-137	8-156	12	0-20	
Fluorene	78	87	59-121	49-131	10	0-20	
N-Nitrosodimethylamine	62	66	40-160	20-180	7	0-20	
Naphthalene	68	74	21-133	2-152	8	0-20	
Phenanthrene	81	90	54-120	43-131	11	0-20	
Phenol	53	57	40-160	20-180	8	0-20	
Pyrene	75	85	45-129	31-143	12	0-15	

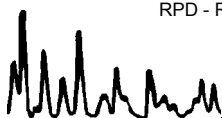
Total number of LCS compounds : 17

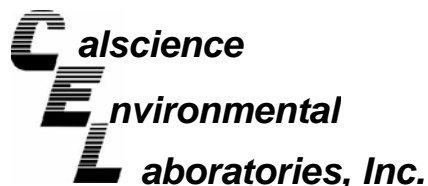
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1618
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,188	Aqueous	GC/MS RR	07/21/09	07/21/09	090721L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	105	106	84-120	78-126	1	0-8	
Carbon Tetrachloride	116	115	63-147	49-161	0	0-10	
Chlorobenzene	106	106	89-119	84-124	0	0-7	
1,2-Dibromoethane	107	106	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	104	104	89-119	84-124	0	0-9	
1,1-Dichloroethene	109	108	77-125	69-133	1	0-16	
Ethylbenzene	106	106	80-120	73-127	0	0-20	
Toluene	104	106	83-125	76-132	2	0-9	
Trichloroethene	108	109	89-119	84-124	1	0-8	
Vinyl Chloride	101	98	63-135	51-147	2	0-13	
Methyl-t-Butyl Ether (MTBE)	103	102	82-118	76-124	0	0-13	
Tert-Butyl Alcohol (TBA)	99	98	46-154	28-172	1	0-32	
Diisopropyl Ether (DIPE)	97	95	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	99	99	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	104	76-124	68-132	1	0-10	
Ethanol	100	93	60-138	47-151	7	0-32	

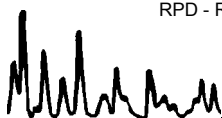
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

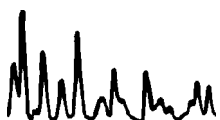
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 09-07-1618

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



1618

BLAINE
 TECH SERVICES, INC.
 1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CHAIN OF CUSTODY
 CLIENT: Geosyntec
 SITE: Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

SAMPLE I.D.	DATE	TIME	MATRIX		TOTAL	CONTAINERS
			W	H ₂ O		
BLD154-001	7-20-09	1157	W		2	
MNCL-7	7-20-09	1413	W		7	
MNCL-5	7-20-09	1447	W		7	
QCEB-2	7-20-09	1456	W		3	
QCEB-2	7-20-09	1100	W		2	

CONDUCT ANALYSIS TO DETECT		ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
VOCs by 8260B	Ethene/Ethane/Methane (RSK 175)				
X					1
X	X				2
X	X				3
X	X				4
X	X				5

LAB: CalScience
 SPECIAL INSTRUCTIONS
 *Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
 **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
 *** Metals samples have been field filled
 Send Invoice and Report to:
 Brian Hitchens
 Geosyntec: 10875 Rancho Bernardo Rd, suite 200
 San Diego, CA 92127
 (858) 674-6559

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	7-20-09	1456	Kenley		
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	7-20-09	1500	[Signature]	07/20/09	1500
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	07/20/09	1745	[Signature]	07/20/09	1745
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA: _____ DATE SENT: _____ TIME SENT: _____ COOLER #: _____

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BLAINE TECH

DATE: 07/20/09

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 1.5 °C - 0.2°C (CF) = 1.3 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: VS

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: VS

Sample _____ No (Not Intact) Not Present Initial: HL

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

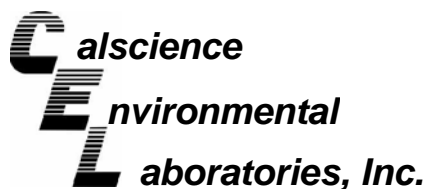
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® _____ **Other:** _____ **Checked/Labeled by:** HL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** HL

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** HL



July 28, 2009

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 09-07-1619**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/20/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

Page 1 of 3

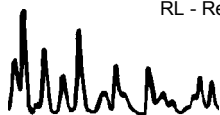
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-3	09-07-1619-3-E	07/20/09 13:10	Aqueous	ICP 5300	07/21/09	07/22/09 14:31	090721LA1F

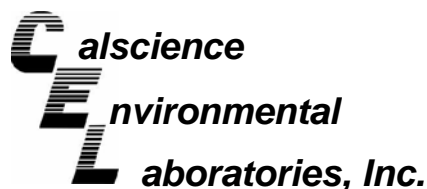
Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

-Mercury was analyzed on 07/21/2009 8:01:48 PM with batch 090721L01

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00209	1		mg/L
Arsenic	0.0162	0.0100	0.00308	1		mg/L
Barium	0.0456	0.0100	0.000719	1		mg/L
Beryllium	ND	0.00100	0.000176	1		mg/L
Cadmium	0.000435	0.00500	0.000350	1	J	mg/L
Chromium	ND	0.00500	0.000350	1		mg/L
Cobalt	0.00101	0.00500	0.000696	1	J	mg/L
Copper	ND	0.00500	0.00134	1		mg/L
Lead	0.00617	0.0100	0.00236	1	J	mg/L
Mercury	ND	0.000500	0.0000177	1		mg/L
Molybdenum	0.00307	0.00500	0.000800	1	J	mg/L
Nickel	ND	0.00500	0.00137	1		mg/L
Selenium	0.0135	0.0150	0.00295	1	J	mg/L
Silver	0.00510	0.00500	0.000400	1		mg/L
Thallium	ND	0.0150	0.00233	1		mg/L
Vanadium	ND	0.00500	0.000314	1		mg/L
Zinc	0.0225	0.0100	0.000848	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-1	09-07-1619-4-E	07/20/09 14:20	Aqueous	ICP 5300	07/21/09	07/22/09 14:33	090721LA1F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 07/21/2009 8:04:02 PM with batch 090721L01

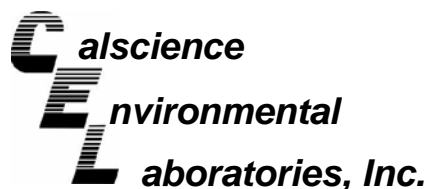
Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00209	1		mg/L
Arsenic	0.0184	0.0100	0.00308	1		mg/L
Barium	0.0622	0.0100	0.000719	1		mg/L
Beryllium	ND	0.00100	0.000176	1		mg/L
Cadmium	ND	0.00500	0.000350	1		mg/L
Chromium	ND	0.00500	0.000350	1		mg/L
Cobalt	0.00592	0.00500	0.000696	1		mg/L
Copper	ND	0.00500	0.00134	1		mg/L
Lead	0.00284	0.0100	0.00236	1	J	mg/L
Mercury	ND	0.000500	0.0000177	1		mg/L
Molybdenum	0.0141	0.00500	0.000800	1		mg/L
Nickel	0.00252	0.00500	0.00137	1	J	mg/L
Selenium	0.00708	0.0150	0.00295	1	J	mg/L
Silver	0.00212	0.00500	0.000400	1	J	mg/L
Thallium	ND	0.0150	0.00233	1		mg/L
Vanadium	ND	0.00500	0.000314	1		mg/L
Zinc	0.0133	0.0100	0.000848	1		mg/L

Method Blank	099-04-008-4,227	N/A	Aqueous	Mercury	07/21/09	07/21/09 19:48	090721L01
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Mercury	ND	0.000500	0.0000177	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

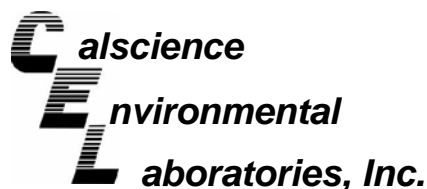
Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-003-9,575	N/A	Aqueous	ICP 5300	07/21/09	07/23/09 20:16	090721LA1F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00209	1		mg/L
Arsenic	ND	0.0100	0.00308	1		mg/L
Barium	ND	0.0100	0.000719	1		mg/L
Beryllium	ND	0.00100	0.000176	1		mg/L
Cadmium	ND	0.00500	0.000350	1		mg/L
Chromium	ND	0.00500	0.000350	1		mg/L
Cobalt	ND	0.00500	0.000696	1		mg/L
Copper	ND	0.00500	0.00134	1		mg/L
Lead	ND	0.0100	0.00236	1		mg/L
Molybdenum	ND	0.00500	0.000800	1		mg/L
Nickel	ND	0.00500	0.00137	1		mg/L
Selenium	ND	0.0150	0.00295	1		mg/L
Silver	ND	0.00500	0.000400	1		mg/L
Thallium	ND	0.0150	0.00233	1		mg/L
Vanadium	ND	0.00500	0.000314	1		mg/L
Zinc	ND	0.0100	0.000848	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD158-MW2	09-07-1619-2-A	07/20/09 12:05	Aqueous	ICP 5300	07/21/09	07/22/09 14:28	090721LA1A

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

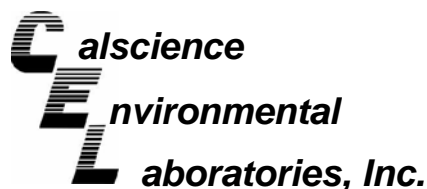
Parameter	Result	RL	MDL	DF	Qual	Units
Chromium	0.00651	0.00500	0.000350	1		mg/L

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-003-9,580	N/A	Aqueous	ICP 5300	07/21/09	07/23/09 20:16	090721LA1A

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Chromium	ND	0.00500	0.000350	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: N/A
Method: EPA 7196A

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD158-MW2	09-07-1619-2-B	07/20/09 12:05	Aqueous	UV 7	07/20/09	07/20/09 20:04	90720CRL1

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Chromium, Hexavalent	ND	0.020	0.0040	1		mg/L

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-05-064-1,845	N/A	Aqueous	UV 7	07/20/09	07/20/09 20:04	90720CRL1

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Chromium, Hexavalent	ND	0.020	0.0040	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-3	09-07-1619-3-D	07/20/09 13:10	Aqueous	GC 27	07/22/09	07/22/09 19:11	090722B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	ND		0.0	1	
C7	ND		0.0	1		C23-C24	ND		0.0	1	
C8	ND		0.0	1		C25-C28	ND		0.0	1	
C9-C10	ND		0.0	1		C29-C32	ND		0.0	1	
C11-C12	ND		0.0	1		C33-C36	ND		0.0	1	
C13-C14	ND		0.0	1		C37-C40	ND		0.0	1	
C15-C16	ND		0.0	1		C41-C44	ND		0.0	1	
C17-C18	ND		0.0	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	93	68-140									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-1	09-07-1619-4-D	07/20/09 14:20	Aqueous	GC 27	07/22/09	07/22/09 19:29	090722B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

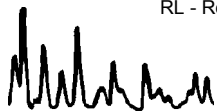
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	ND		0.0	1	
C7	ND		0.0	1		C23-C24	ND		0.0	1	
C8	ND		0.0	1		C25-C28	ND		0.0	1	
C9-C10	ND		0.0	1		C29-C32	ND		0.0	1	
C11-C12	ND		0.0	1		C33-C36	ND		0.0	1	
C13-C14	ND		0.0	1		C37-C40	ND		0.0	1	
C15-C16	ND		0.0	1		C41-C44	ND		0.0	1	
C17-C18	ND		0.0	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	96	68-140									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-308-1,145	N/A	Aqueous	GC 27	07/22/09	07/22/09 17:41	090722B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
TPH as Diesel	ND	500	480	1	
Surrogates:	REC (%)	Control Limits			Qual
Decachlorobiphenyl	93	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-3	09-07-1619-3-G	07/20/09 13:10	Aqueous	GC/MS GG	07/22/09	07/24/09 12:06	090722L01D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	61	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-1	09-07-1619-4-G	07/20/09 14:20	Aqueous	GC/MS GG	07/22/09	07/24/09 12:29	090722L01D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

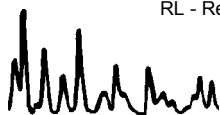
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	11	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	80	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-09-004-1,295	N/A	Aqueous	GC/MS GG	07/22/09	07/23/09 12:28	090722L01D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	117	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

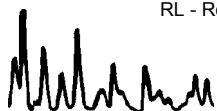
Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-3	09-07-1619-3-F	07/20/09 13:10	Aqueous	GC/MS MM	07/22/09	07/24/09 19:58	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	0.51	1.0	0.14	1	J
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	1.0	0.10	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	1.0	0.096	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	1.0	0.11	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	1.0	0.088	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	1.0	0.088	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
2,4,6-Tribromophenol	80	24-152				2-Fluorobiphenyl	55	33-144			
2-Fluorophenol	65	31-142				Nitrobenzene-d5	78	28-139			
p-Terphenyl-d14	75	23-160				Phenol-d6	63	30-136			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

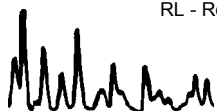
Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-1	09-07-1619-4-F	07/20/09 14:20	Aqueous	GC/MS MM	07/22/09	07/24/09 20:43	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	0.39	1.0	0.14	1	J
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	0.14	1.0	0.10	1	J
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	ND	1.0	0.096	1	
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	1.0	0.11	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	1.0	0.088	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	1.0	0.088	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
2,4,6-Tribromophenol	80	24-152				2-Fluorobiphenyl	58	33-144			
2-Fluorophenol	58	31-142				Nitrobenzene-d5	76	28-139			
p-Terphenyl-d14	70	23-160				Phenol-d6	57	30-136			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

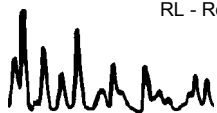
Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-430-67	N/A	Aqueous	GC/MS MM	07/22/09	07/28/09 11:44	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	1.0	0.14	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	1.0	0.10	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	0.17	1.0	0.096	1	J
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	1.0	0.11	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	1.0	0.088	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	1.0	0.088	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
2,4,6-Tribromophenol	66	24-152				2-Fluorobiphenyl	104	33-144			
2-Fluorophenol	42	31-142				Nitrobenzene-d5	94	28-139			
p-Terphenyl-d14	88	23-160				Phenol-d6	46	30-136			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

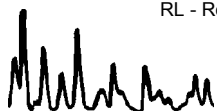
Page 1 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB-1	09-07-1619-1-A	07/20/09 10:50	Aqueous	GC/MS JJ	07/22/09	07/23/09 03:35	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Dibromofluoromethane	117	82-130				1,2-Dichloroethane-d4	114	75-141			
Toluene-d8	94	83-113				1,4-Bromofluorobenzene	87	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

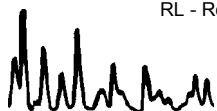
Page 2 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-3	09-07-1619-3-B	07/20/09 13:10	Aqueous	GC/MS JJ	07/22/09	07/23/09 04:06	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Dibromofluoromethane	121	82-130				1,2-Dichloroethane-d4	130	75-141			
Toluene-d8	97	83-113				1,4-Bromofluorobenzene	88	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

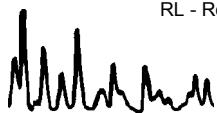
Page 3 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-1	09-07-1619-4-A	07/20/09 14:20	Aqueous	GC/MS JJ	07/22/09	07/23/09 04:36	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	0.71	1.0	0.37	1	J	1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Dibromofluoromethane	125	82-130				1,2-Dichloroethane-d4	132	75-141			
Toluene-d8	97	83-113				1,4-Bromofluorobenzene	87	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 4 of 5

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-1	09-07-1619-5-A	07/20/09 14:45	Aqueous	GC/MS JJ	07/22/09	07/23/09 05:06	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	129	82-130				1,2-Dichloroethane-d4	126	75-141			
Toluene-d8	96	83-113				1,4-Bromofluorobenzene	88	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/20/09
 Work Order No: 09-07-1619
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

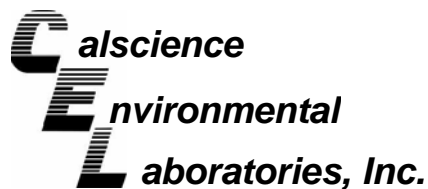
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,209	N/A	Aqueous	GC/MS JJ	07/22/09	07/23/09 01:07	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	120	82-130				1,2-Dichloroethane-d4	116	75-141			
Toluene-d8	93	83-113				1,4-Bromofluorobenzene	85	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



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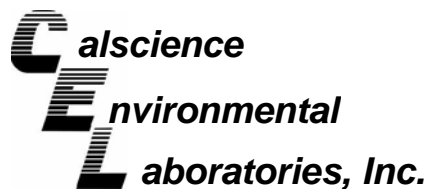
Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 3010A Total
Method: EPA 6010B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1632-2	Aqueous	ICP 5300	07/21/09	07/21/09	090721SA1

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	105	104	72-132	1	0-10	
Arsenic	108	107	80-140	1	0-11	
Barium	95	96	87-123	1	0-6	
Beryllium	90	91	89-119	1	0-8	
Cadmium	87	87	82-124	0	0-7	
Chromium	88	87	86-122	1	0-8	
Cobalt	88	87	83-125	1	0-7	
Copper	107	106	78-126	1	0-7	
Lead	85	85	84-120	0	0-7	
Molybdenum	4X	4X	78-126	4X	0-7	Q
Nickel	89	78	84-120	3	0-7	3
Selenium	113	108	79-127	3	0-9	
Silver	121	120	86-128	0	0-7	
Thallium	78	78	79-121	0	0-8	3
Vanadium	95	95	88-118	0	0-7	
Zinc	108	105	89-131	3	0-8	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - PDS / PDSD



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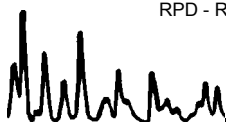
Date Received 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 3010A Total
Method: EPA 6010B

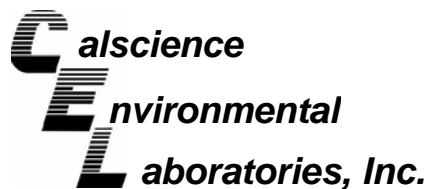
Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
09-07-1632-2	Aqueous	ICP 5300	07/21/09	07/24/09	090721SA1

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	105	105	75-125	1	0-10	
Arsenic	107	107	75-125	0	0-11	
Barium	93	94	75-125	1	0-6	
Beryllium	76	77	75-125	1	0-8	
Cadmium	79	79	75-125	0	0-7	
Chromium	77	77	75-125	1	0-8	
Cobalt	78	78	75-125	1	0-7	
Copper	106	108	75-125	1	0-7	
Lead	77	77	75-125	0	0-7	
Molybdenum	4X	4X	75-125	4X	0-7	Q
Nickel	74	77	75-125	1	0-7	5
Selenium	118	118	75-125	0	0-9	
Silver	122	124	75-125	1	0-7	
Thallium	76	76	75-125	1	0-8	
Vanadium	83	84	75-125	1	0-7	
Zinc	106	104	75-125	2	0-8	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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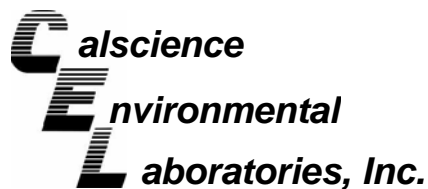
Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: N/A
Method: EPA 7196A

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD158-MW2	Aqueous	UV 7	07/20/09	07/20/09	90720CRS1

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium, Hexavalent	97	97	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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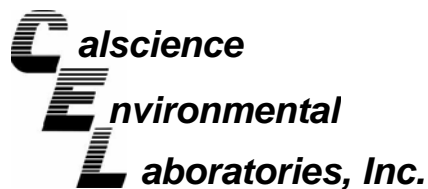
Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 7470A Filt.
Method: EPA 7470A

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MWCL-3	Aqueous	Mercury	07/21/09	07/21/09	090721S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	98	94	57-141	4	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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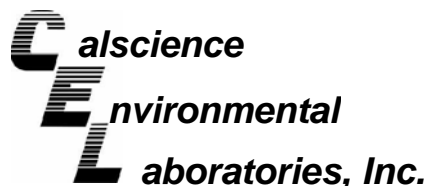
Date Received: 07/20/09
Work Order No: 09-07-1619
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1469-11	Aqueous	GC/MS JJ	07/22/09	07/23/09	090722S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	92	88	88-118	5	0-7	
Carbon Tetrachloride	86	79	67-145	8	0-11	
Chlorobenzene	94	89	88-118	5	0-7	
1,2-Dibromoethane	102	98	70-130	4	0-30	
1,2-Dichlorobenzene	93	88	86-116	5	0-8	
1,1-Dichloroethene	95	90	70-130	6	0-25	
Ethylbenzene	98	93	70-130	5	0-30	
Toluene	98	96	87-123	2	0-8	
Trichloroethene	89	87	79-127	2	0-10	
Vinyl Chloride	87	82	69-129	5	0-13	
Methyl-t-Butyl Ether (MTBE)	101	100	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	85	90	36-168	6	0-45	
Diisopropyl Ether (DIPE)	120	115	81-123	4	0-9	
Ethyl-t-Butyl Ether (ETBE)	112	108	72-126	4	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	105	72-126	1	0-12	
Ethanol	121	131	53-149	8	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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Date Received: N/A
Work Order No: 09-07-1619
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
097-01-003-9,575	Aqueous	ICP 5300	07/21/09	07/21/09	090721LA1F		
<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Antimony	97	98	80-120	73-127	2	0-20	
Arsenic	97	98	80-120	73-127	1	0-20	
Barium	104	104	80-120	73-127	0	0-20	
Beryllium	98	98	80-120	73-127	0	0-20	
Cadmium	100	100	80-120	73-127	0	0-20	
Chromium	97	98	80-120	73-127	0	0-20	
Cobalt	106	107	80-120	73-127	2	0-20	
Copper	100	101	80-120	73-127	1	0-20	
Lead	103	104	80-120	73-127	1	0-20	
Molybdenum	98	100	80-120	73-127	2	0-20	
Nickel	102	104	80-120	73-127	2	0-20	
Selenium	92	94	80-120	73-127	2	0-20	
Silver	102	102	80-120	73-127	0	0-20	
Thallium	100	102	80-120	73-127	2	0-20	
Vanadium	98	98	80-120	73-127	0	0-20	
Zinc	99	102	80-120	73-127	3	0-20	

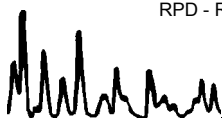
Total number of LCS compounds : 16

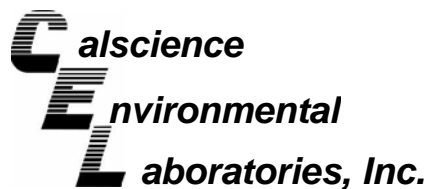
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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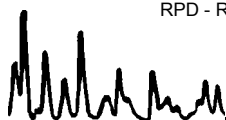
Date Received: N/A
 Work Order No: 09-07-1619
 Preparation: EPA 3010A Total
 Method: EPA 6010B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-9,580	Aqueous	ICP 5300	07/21/09	07/21/09	090721LA1A

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Chromium	97	98	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit





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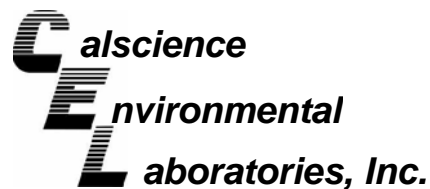
Date Received: N/A
 Work Order No: 09-07-1619
 Preparation: N/A
 Method: EPA 7196A

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-05-064-1,845	Aqueous	UV 7	07/20/09	NONE	90720CRL1

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Chromium, Hexavalent	0.500	0.488	98	80-120	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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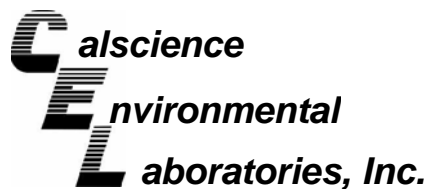
Date Received: N/A
Work Order No: 09-07-1619
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,145	Aqueous	GC 27	07/22/09	07/22/09	090722B01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	94	94	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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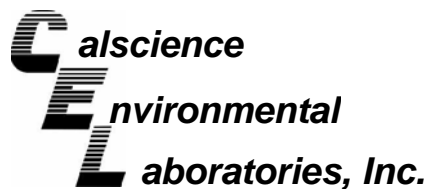
Date Received: N/A
Work Order No: 09-07-1619
Preparation: EPA 7470A Filt.
Method: EPA 7470A

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,227	Aqueous	Mercury	07/21/09	07/21/09	090721L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	101	101	85-121	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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Date Received: N/A
Work Order No: 09-07-1619
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,295	Aqueous	GC/MS GG	07/22/09	07/23/09	090722L01D

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
1,4-Dioxane	106	100	50-130	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Quality Control - LCS/LCS Duplicate



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Date Received: N/A
 Work Order No: 09-07-1619
 Preparation: EPA 3510C
 Method: EPA 8270C SIM

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-430-67	Aqueous	GC/MS MM	07/22/09	07/25/09	090722L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
2,4,5-Trichlorophenol	84	92	40-160	20-180	9	0-20	
2,4-Dichlorophenol	89	97	40-160	20-180	9	0-20	
2-Methylphenol	83	90	40-160	20-180	8	0-20	
2-Nitrophenol	82	88	40-160	20-180	7	0-20	
4-Chloro-3-Methylphenol	90	99	40-160	20-180	9	0-20	
Acenaphthene	74	81	55-121	44-132	9	0-15	
Benzo (a) Pyrene	83	95	17-163	0-187	13	0-20	
Chrysene	81	91	17-168	0-193	12	0-20	
Di-n-Butyl Phthalate	77	85	40-160	20-180	10	0-20	
Dimethyl Phthalate	77	86	40-160	20-180	11	0-20	
Fluoranthene	74	83	26-137	8-156	12	0-20	
Fluorene	78	87	59-121	49-131	10	0-20	
N-Nitrosodimethylamine	62	66	40-160	20-180	7	0-20	
Naphthalene	68	74	21-133	2-152	8	0-20	
Phenanthrene	81	90	54-120	43-131	11	0-20	
Phenol	53	57	40-160	20-180	8	0-20	
Pyrene	75	85	45-129	31-143	12	0-15	

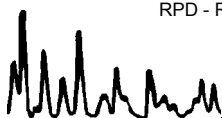
Total number of LCS compounds : 17

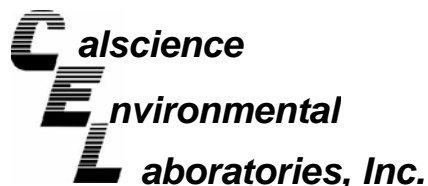
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



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Date Received: N/A
Work Order No: 09-07-1619
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,209	Aqueous	GC/MS JJ	07/22/09	07/22/09	090722L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	89	91	84-120	78-126	2	0-8	
Carbon Tetrachloride	80	85	63-147	49-161	7	0-10	
Chlorobenzene	92	95	89-119	84-124	4	0-7	
1,2-Dibromoethane	98	98	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	90	93	89-119	84-124	3	0-9	
1,1-Dichloroethene	94	100	77-125	69-133	6	0-16	
Ethylbenzene	98	101	80-120	73-127	4	0-20	
Toluene	97	100	83-125	76-132	3	0-9	
Trichloroethene	92	94	89-119	84-124	3	0-8	
Vinyl Chloride	87	89	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	96	99	82-118	76-124	3	0-13	
Tert-Butyl Alcohol (TBA)	77	95	46-154	28-172	21	0-32	
Diisopropyl Ether (DIPE)	113	117	81-123	74-130	4	0-11	
Ethyl-t-Butyl Ether (ETBE)	103	109	74-122	66-130	5	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	103	76-124	68-132	2	0-10	
Ethanol	96	111	60-138	47-151	15	0-32	

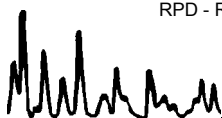
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

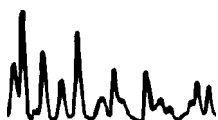
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 09-07-1619

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



1619

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

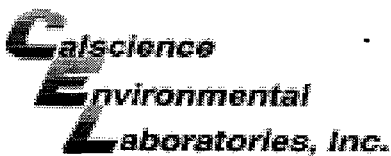
CHAIN OF CUSTODY
CLIENT: Geosyntec
SITE: Teledyne Ryan
2701 N. Harbor Drive
San Diego, CA

SAMPLE I.D.	DATE	TIME	MATRIX S = Soil W = H2O	CONTAINERS	
				TOTAL	
DCIB-1	07-20-09	1050	W	2	
BID158-NP		1205		2	
MNCL-3		1310		7	
MNCL-1		1420		7	
MANAGE		1445		3	

CONDUCT ANALYSIS TO DETECT							LAB	CalScience	DHS #
Y	VOCs by 8260B						SPECIAL INSTRUCTIONS		
	Ethene/Ethane/Methane (RSK 175)						*Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits		
	SVOCs 8270 SIM Super						**EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids		
	TPH (8015)						Brian Hitchens		
	PCBs (1668A)						Geosyntec: 10875 Rancho Bernardo Rd, suite 200		
	Metals (6010B/7470A)						San Diego, CA 92127		
	1,4-Dioxane (Modified 8270)*						(858) 674-6559		
	EISB Sampling Suite**								
	Total Chromium/Hexavalent Chromium								

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED	NO LATER THAN
07-20-09	07-20-09	1445	Chds Davis		
	07-20-09	1455			
	07-20-09	1745			

RECEIVED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[Signature]	07/20/09	1455	[Signature]	07/20/09	1455
[Signature]	07/20/09	1745	[Signature]	07/20/09	1745



WORK ORDER #: 09-07-11619

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BLANE TECH

DATE: 07/20/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.5 °C - 0.2 °C (CF) = 1.3 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: VO

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: VO

Sample _____ No (Not Intact) Not Present Initial: tl

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

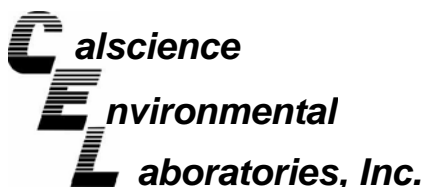
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® _____ **Other:** _____ **Checked/Labeled by:** tl

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** tl

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** tl



July 29, 2009

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 09-07-1720**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 07/21/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW-7	09-07-1720-2-D	07/21/09 08:50	Aqueous	GC 33	N/A	07/22/09 00:00	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.0800	1.00	0.00547	1	J	ug/L
Ethylene	9.08	1.00	0.0933	1		ug/L
Methane	5800	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FMY-MW1	09-07-1720-3-D	07/21/09 07:29	Aqueous	GC 33	N/A	07/22/09 00:00	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.0700	1.00	0.00547	1	J	ug/L
Ethylene	0.690	1.00	0.0933	1	J	ug/L
Methane	6480	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	09-07-1720-4-D	07/21/09 09:45	Aqueous	GC 33	N/A	07/22/09 00:00	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	1.66	1.00	0.00547	1		ug/L
Ethylene	3.88	1.00	0.0933	1		ug/L
Methane	7650	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD180-MW2	09-07-1720-5-D	07/21/09 08:24	Aqueous	GC 33	N/A	07/22/09 00:00	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

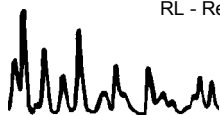
Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.0500	1.00	0.00547	1	J	ug/L
Ethylene	0.740	1.00	0.0933	1	J	ug/L
Methane	6770	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	09-07-1720-6-D	07/21/09 09:21	Aqueous	GC 33	N/A	07/22/09 00:00	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.290	1.00	0.00547	1	J	ug/L
Ethylene	20.4	1.00	0.0933	1		ug/L
Methane	10100	40.0	0.314	40		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

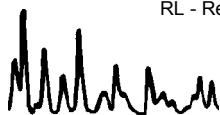
Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-661-206	N/A	Aqueous	GC 33	N/A	07/22/09 00:00	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>MDL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>
Ethane	ND	1.00	0.00547	1		ug/L
Ethylene	ND	1.00	0.0933	1		ug/L
Methane	ND	1.00	0.00784	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW-7	09-07-1720-2-F	07/21/09 08:50	Aqueous	HPLC 6	N/A	07/22/09 14:45	090722L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	9.5	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	102	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FMY-MW1	09-07-1720-3-F	07/21/09 07:29	Aqueous	HPLC 6	N/A	07/22/09 15:08	090722L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

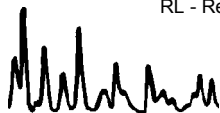
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	26	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	103	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	09-07-1720-4-F	07/21/09 09:45	Aqueous	HPLC 6	N/A	07/22/09 15:31	090722L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	290	10	7.8	10		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	14	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	102	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD180-MW2	09-07-1720-5-F	07/21/09 08:24	Aqueous	HPLC 6	N/A	07/22/09 15:54	090722L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	35	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	103	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	09-07-1720-6-F	07/21/09 09:21	Aqueous	HPLC 6	N/A	07/22/09 17:03	090722L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

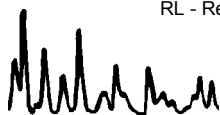
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	960	40	31	40		mg/L
Butyric Acid	190	10	8.3	10		mg/L
Lactic Acid	ND	10	7.2	10		mg/L
Propionic Acid	51	10	7.7	10		mg/L
Pyruvic Acid	ND	5.0	0.91	10		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	104	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-016-209	N/A	Aqueous	HPLC 6	N/A	07/22/09 12:27	090722L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	91	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

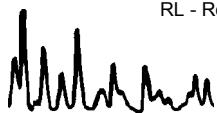
Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB-3	09-07-1720-1-A	07/21/09 06:30	Aqueous	GC/MS EE	07/22/09	07/23/09 02:36	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	103	82-130				1,2-Dichloroethane-d4	111	75-141			
Toluene-d8	99	83-113				1,4-Bromofluorobenzene	88	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan


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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW-7	09-07-1720-2-A	07/21/09 08:50	Aqueous	GC/MS EE	07/22/09	07/23/09 03:06	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	0.38	0.50	0.28	1	J	2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	12	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	0.40	1.0	0.30	1	J
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	1.1	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	0.56	1.0	0.40	1	J	o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Dibromofluoromethane	111	82-130				1,2-Dichloroethane-d4	114	75-141			
Toluene-d8	100	83-113				1,4-Bromofluorobenzene	90	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

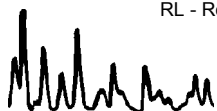
Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FMY-MW1	09-07-1720-3-B	07/21/09 07:29	Aqueous	GC/MS EE	07/23/09	07/23/09 19:42	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	280	100	18	2		1,3-Dichloropropane	ND	2.0	0.76	2	
Benzene	ND	1.0	0.57	2		2,2-Dichloropropane	ND	2.0	0.92	2	
Bromobenzene	ND	2.0	0.67	2		1,1-Dichloropropene	ND	2.0	0.51	2	
Bromochloromethane	ND	2.0	1.4	2		c-1,3-Dichloropropene	ND	1.0	0.57	2	
Bromodichloromethane	ND	2.0	0.66	2		t-1,3-Dichloropropene	ND	1.0	0.72	2	
Bromoform	ND	2.0	1.1	2		Ethylbenzene	ND	2.0	0.44	2	
Bromomethane	ND	20	8.6	2		2-Hexanone	ND	20	14	2	
2-Butanone	ND	20	14	2		Isopropylbenzene	ND	2.0	0.45	2	
n-Butylbenzene	ND	2.0	0.55	2		p-Isopropyltoluene	ND	2.0	0.52	2	
sec-Butylbenzene	ND	2.0	0.41	2		Methylene Chloride	ND	20	5.2	2	
tert-Butylbenzene	ND	2.0	0.55	2		4-Methyl-2-Pentanone	ND	20	8.8	2	
Carbon Disulfide	ND	20	3.8	2		Naphthalene	ND	20	5.1	2	
Carbon Tetrachloride	ND	1.0	0.85	2		n-Propylbenzene	ND	2.0	1.6	2	
Chlorobenzene	ND	2.0	0.44	2		Styrene	ND	2.0	0.60	2	
Chloroethane	ND	10	2.6	2		1,1,1,2-Tetrachloroethane	ND	2.0	0.70	2	
Chloroform	ND	2.0	0.66	2		1,1,2,2-Tetrachloroethane	ND	2.0	0.88	2	
Chloromethane	ND	20	0.97	2		Tetrachloroethene	ND	2.0	1.0	2	
2-Chlorotoluene	ND	2.0	1.1	2		Toluene	ND	2.0	0.65	2	
4-Chlorotoluene	ND	2.0	0.42	2		1,2,3-Trichlorobenzene	ND	2.0	0.61	2	
Dibromochloromethane	ND	2.0	0.97	2		1,2,4-Trichlorobenzene	ND	2.0	0.97	2	
1,2-Dibromo-3-Chloropropane	ND	10	6.2	2		1,1,1-Trichloroethane	ND	2.0	0.90	2	
1,2-Dibromoethane	ND	2.0	0.93	2		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	20	1.3	2	
Dibromomethane	ND	2.0	1.2	2		1,1,2-Trichloroethane	ND	2.0	1.1	2	
1,2-Dichlorobenzene	ND	2.0	0.54	2		Trichloroethene	ND	2.0	0.61	2	
1,3-Dichlorobenzene	ND	2.0	0.57	2		Trichlorofluoromethane	ND	20	0.62	2	
1,4-Dichlorobenzene	ND	2.0	0.42	2		1,2,3-Trichloropropane	ND	10	2.7	2	
Dichlorodifluoromethane	ND	2.0	0.98	2		1,2,4-Trimethylbenzene	ND	2.0	0.49	2	
1,1-Dichloroethane	ND	2.0	0.75	2		1,3,5-Trimethylbenzene	ND	2.0	0.46	2	
1,2-Dichloroethane	ND	1.0	0.63	2		Vinyl Acetate	ND	20	14	2	
1,1-Dichloroethene	ND	2.0	0.80	2		Vinyl Chloride	ND	1.0	0.65	2	
c-1,2-Dichloroethene	ND	2.0	0.97	2		p/m-Xylene	ND	2.0	0.91	2	
t-1,2-Dichloroethene	ND	2.0	0.81	2		o-Xylene	ND	2.0	0.47	2	
1,2-Dichloropropane	ND	2.0	0.76	2		Methyl-t-Butyl Ether (MTBE)	ND	2.0	0.61	2	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	122	82-130				1,2-Dichloroethane-d4	123	75-141			
Toluene-d8	101	83-113				1,4-Bromofluorobenzene	92	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

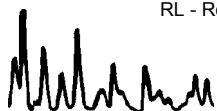
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	09-07-1720-4-A	07/21/09 09:45	Aqueous	GC/MS EE	07/22/09	07/23/09 04:06	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	610	250	46	5		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	1.2	0.50	0.33	1	
c-1,2-Dichloroethene	3.7	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	1.1	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Dibromofluoromethane	115	82-130				1,2-Dichloroethane-d4	116	75-141			
Toluene-d8	103	83-113				1,4-Bromofluorobenzene	91	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

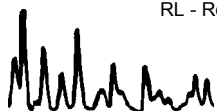
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD180-MW2	09-07-1720-5-B	07/21/09 08:24	Aqueous	GC/MS EE	07/23/09	07/23/09 20:12	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	53	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	0.36	0.50	0.28	1	J	2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	1.1	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Dibromofluoromethane	115	82-130				1,2-Dichloroethane-d4	119	75-141			
Toluene-d8	100	83-113				1,4-Bromofluorobenzene	94	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

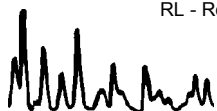
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	09-07-1720-6-A	07/21/09 09:21	Aqueous	GC/MS EE	07/22/09	07/23/09 05:06	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	870	500	91	10		1,3-Dichloropropane	ND	10	3.8	10	
Benzene	ND	5.0	2.8	10		2,2-Dichloropropane	ND	10	4.6	10	
Bromobenzene	ND	10	3.3	10		1,1-Dichloropropene	ND	10	2.6	10	
Bromochloromethane	ND	10	6.9	10		c-1,3-Dichloropropene	ND	5.0	2.8	10	
Bromodichloromethane	ND	10	3.3	10		t-1,3-Dichloropropene	ND	5.0	3.6	10	
Bromoform	ND	10	5.5	10		Ethylbenzene	ND	10	2.2	10	
Bromomethane	ND	100	43	10		2-Hexanone	ND	100	69	10	
2-Butanone	ND	100	69	10		Isopropylbenzene	ND	10	2.3	10	
n-Butylbenzene	ND	10	2.8	10		p-Isopropyltoluene	ND	10	2.6	10	
sec-Butylbenzene	ND	10	2.0	10		Methylene Chloride	ND	100	26	10	
tert-Butylbenzene	ND	10	2.8	10		4-Methyl-2-Pentanone	ND	100	44	10	
Carbon Disulfide	ND	100	19	10		Naphthalene	ND	100	25	10	
Carbon Tetrachloride	ND	5.0	4.3	10		n-Propylbenzene	ND	10	7.9	10	
Chlorobenzene	ND	10	2.2	10		Styrene	ND	10	3.0	10	
Chloroethane	ND	50	13	10		1,1,1,2-Tetrachloroethane	ND	10	3.5	10	
Chloroform	ND	10	3.3	10		1,1,2,2-Tetrachloroethane	ND	10	4.4	10	
Chloromethane	ND	100	4.9	10		Tetrachloroethene	ND	10	5.1	10	
2-Chlorotoluene	ND	10	5.5	10		Toluene	ND	10	3.3	10	
4-Chlorotoluene	ND	10	2.1	10		1,2,3-Trichlorobenzene	ND	10	3.1	10	
Dibromochloromethane	ND	10	4.8	10		1,2,4-Trichlorobenzene	ND	10	4.9	10	
1,2-Dibromo-3-Chloropropane	ND	50	31	10		1,1,1-Trichloroethane	ND	10	4.5	10	
1,2-Dibromoethane	ND	10	4.7	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	6.4	10	
Dibromomethane	ND	10	5.9	10		1,1,2-Trichloroethane	ND	10	5.4	10	
1,2-Dichlorobenzene	ND	10	2.7	10		Trichloroethene	ND	10	3.0	10	
1,3-Dichlorobenzene	ND	10	2.8	10		Trichlorofluoromethane	ND	100	3.1	10	
1,4-Dichlorobenzene	ND	10	2.1	10		1,2,3-Trichloropropane	ND	50	13	10	
Dichlorodifluoromethane	ND	10	4.9	10		1,2,4-Trimethylbenzene	ND	10	2.4	10	
1,1-Dichloroethane	ND	10	3.7	10		1,3,5-Trimethylbenzene	ND	10	2.3	10	
1,2-Dichloroethane	ND	5.0	3.1	10		Vinyl Acetate	ND	100	71	10	
1,1-Dichloroethene	ND	10	4.0	10		Vinyl Chloride	6.4	5.0	3.3	10	
c-1,2-Dichloroethene	23	10	4.9	10		p/m-Xylene	ND	10	4.5	10	
t-1,2-Dichloroethene	ND	10	4.0	10		o-Xylene	ND	10	2.4	10	
1,2-Dichloropropane	ND	10	3.8	10		Methyl-t-Butyl Ether (MTBE)	ND	10	3.0	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	117	82-130				1,2-Dichloroethane-d4	115	75-141			
Toluene-d8	100	83-113				1,4-Bromofluorobenzene	90	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB-4	09-07-1720-7-A	07/21/09 07:24	Aqueous	GC/MS EE	07/22/09	07/23/09 05:36	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Dibromofluoromethane	119	82-130				1,2-Dichloroethane-d4	120	75-141			
Toluene-d8	102	83-113				1,4-Bromofluorobenzene	90	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/21/09
 Work Order No: 09-07-1720
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,206	N/A	Aqueous	GC/MS EE	07/22/09	07/23/09 02:06	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	105	82-130				1,2-Dichloroethane-d4	103	75-141			
Toluene-d8	98	83-113				1,4-Bromofluorobenzene	89	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/21/09
 Work Order No: 09-07-1720
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

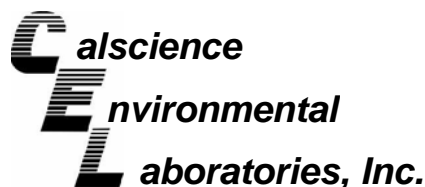
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,218	N/A	Aqueous	GC/MS EE	07/23/09	07/23/09 12:33	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	107	82-130				1,2-Dichloroethane-d4	110	75-141			
Toluene-d8	98	83-113				1,4-Bromofluorobenzene	90	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW-7	09-07-1720-2	07/21/09	Aqueous

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

(24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	1100	20	2.7	20		mg/L	N/A	07/21/09	EPA 300.0
Nitrite (as N) (3) (24)	ND	0.20	0.026	2		mg/L	N/A	07/21/09	EPA 300.0
Nitrate (as N) (3) (24)	0.054	0.20	0.033	2	J	mg/L	N/A	07/21/09	EPA 300.0
Sulfate (3)	2.3	2.0	0.32	2		mg/L	N/A	07/21/09	EPA 300.0
Sulfide, Total	0.20	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	25	2.5	0.10	5		mg/L	N/A	07/23/09	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
FMY-MW1	09-07-1720-3	07/21/09	Aqueous

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

(24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	600	10	1.3	10		mg/L	N/A	07/21/09	EPA 300.0
Nitrite (as N) (3) (24)	ND	0.20	0.026	2		mg/L	N/A	07/21/09	EPA 300.0
Nitrate (as N) (3) (24)	0.050	0.20	0.033	2	J	mg/L	N/A	07/21/09	EPA 300.0
Sulfate (3)	2.8	2.0	0.32	2		mg/L	N/A	07/21/09	EPA 300.0
Sulfide, Total	0.30	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	89	2.5	0.10	5		mg/L	N/A	07/23/09	SM 5310 D

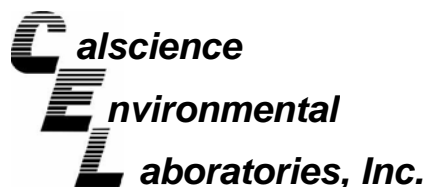
Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW8	09-07-1720-4	07/21/09	Aqueous

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

(24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	210	10	1.3	10		mg/L	N/A	07/21/09	EPA 300.0
Nitrite (as N) (3) (24)	ND	0.10	0.013	1		mg/L	N/A	07/21/09	EPA 300.0
Nitrate (as N) (3) (24)	0.044	0.10	0.017	1	J	mg/L	N/A	07/21/09	EPA 300.0
Sulfate (3)	4.2	1.0	0.16	1		mg/L	N/A	07/21/09	EPA 300.0
Sulfide, Total	0.050	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	180	25	1.0	50		mg/L	N/A	07/23/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1720

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD180-MW2	09-07-1720-5	07/21/09	Aqueous

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

(24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	880	20	2.7	20		mg/L	N/A	07/21/09	EPA 300.0
Nitrite (as N) (3) (24)	ND	0.20	0.026	2		mg/L	N/A	07/21/09	EPA 300.0
Nitrate (as N) (3) (24)	ND	0.20	0.033	2		mg/L	N/A	07/21/09	EPA 300.0
Sulfate (3)	5.1	2.0	0.32	2		mg/L	N/A	07/21/09	EPA 300.0
Sulfide, Total	4.5	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	90	2.5	0.10	5		mg/L	N/A	07/23/09	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW9	09-07-1720-6	07/21/09	Aqueous

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

(24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

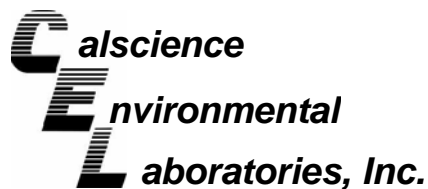
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	310	10	1.3	10		mg/L	N/A	07/21/09	EPA 300.0
Nitrite (as N) (3)	0.66	0.10	0.013	1		mg/L	N/A	07/21/09	EPA 300.0
Nitrate (as N) (3) (24)	ND	0.10	0.017	1		mg/L	N/A	07/21/09	EPA 300.0
Sulfate (3)	2.5	1.0	0.16	1		mg/L	N/A	07/21/09	EPA 300.0
Sulfide, Total	0.10	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	560	25	1.0	50		mg/L	N/A	07/23/09	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank	N/A		Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	ND	1.0	0.13	1		mg/L	N/A	07/21/09	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/21/09	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/21/09	EPA 300.0
Sulfate (24)	ND	1.0	0.16	1		mg/L	N/A	07/21/09	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic (24)	ND	0.50	0.021	1		mg/L	N/A	07/23/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



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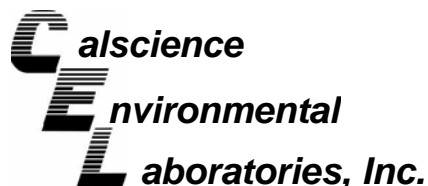
Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: N/A
Method: HPLC/UV

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1719-1	Aqueous	HPLC 6	N/A	07/22/09	090722S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	104	107	70-130	3	0-30	
Butyric Acid	88	85	70-130	4	0-30	
Lactic Acid	44	44	70-130	0	0-30	3
Propionic Acid	90	90	70-130	0	0-30	
Pyruvic Acid	91	91	70-130	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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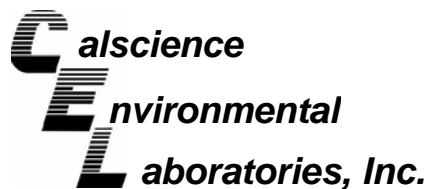
Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1499-7	Aqueous	GC/MS EE	07/22/09	07/22/09	090722S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	88	89	88-118	1	0-7	
Carbon Tetrachloride	101	96	67-145	6	0-11	
Chlorobenzene	98	97	88-118	0	0-7	
1,2-Dibromoethane	106	106	70-130	1	0-30	
1,2-Dichlorobenzene	100	98	86-116	2	0-8	
1,1-Dichloroethene	94	89	70-130	5	0-25	
Ethylbenzene	96	96	70-130	0	0-30	
Toluene	93	94	87-123	2	0-8	
Trichloroethene	91	91	79-127	1	0-10	
Vinyl Chloride	93	93	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	97	94	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	102	99	36-168	3	0-45	
Diisopropyl Ether (DIPE)	105	100	81-123	4	0-9	
Ethyl-t-Butyl Ether (ETBE)	106	103	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	107	72-126	1	0-12	
Ethanol	98	100	53-149	3	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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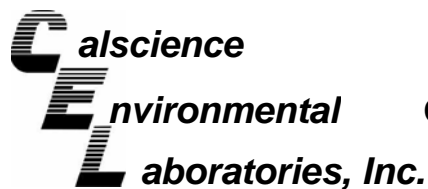
Date Received: 07/21/09
Work Order No: 09-07-1720
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1838-1	Aqueous	GC/MS EE	07/23/09	07/23/09	090723S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	89	87	88-118	3	0-7	3
Carbon Tetrachloride	104	101	67-145	3	0-11	
Chlorobenzene	93	93	88-118	0	0-7	
1,2-Dibromoethane	103	104	70-130	0	0-30	
1,2-Dichlorobenzene	95	96	86-116	0	0-8	
1,1-Dichloroethene	98	96	70-130	3	0-25	
Ethylbenzene	92	93	70-130	1	0-30	
Toluene	94	92	87-123	2	0-8	
Trichloroethene	68	64	79-127	2	0-10	3
Vinyl Chloride	94	94	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	106	104	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	99	97	36-168	2	0-45	
Diisopropyl Ether (DIPE)	104	102	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	104	103	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	108	104	72-126	3	0-12	
Ethanol	96	97	53-149	1	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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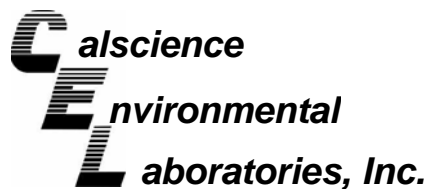
Date Received: N/A
Work Order No: 09-07-1720

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	09-07-1730-2	07/21/09	N/A	101	100	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	09-07-1730-2	07/21/09	N/A	91	91	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	09-07-1730-2	07/21/09	N/A	101	101	80-120	0	0-20	
Sulfate	EPA 300.0	09-07-1730-2	07/21/09	N/A	99	98	80-120	0	0-20	
Carbon, Total Organic	SM 5310 D	09-07-1731-3	07/23/09	N/A	97	95	70-130	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



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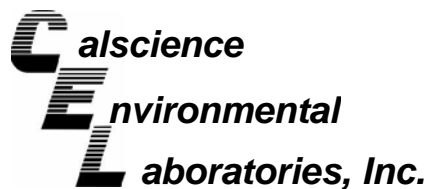
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Work Order No: 09-07-1720

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	09-07-1827-1	07/27/09	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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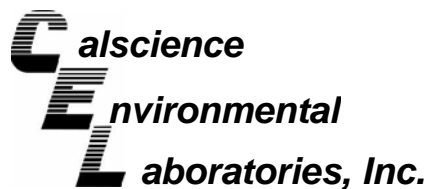
Date Received: N/A
Work Order No: 09-07-1720
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-206	Aqueous	GC 33	N/A	07/22/09	090722L02

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	91	92	80-120	1	0-20	
Methane	96	97	79-109	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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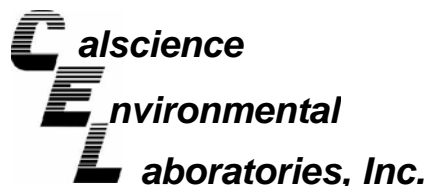
Date Received: N/A
Work Order No: 09-07-1720
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-209	Aqueous	HPLC 6	N/A	07/22/09	090722L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Acetic Acid	94	97	80-120	3	0-20	
Butyric Acid	102	105	80-120	3	0-20	
Lactic Acid	95	95	80-120	0	0-20	
Propionic Acid	99	95	80-120	5	0-20	
Pyruvic Acid	94	93	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1720
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,206	Aqueous	GC/MS EE	07/22/09	07/23/09	090722L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	98	99	84-120	78-126	1	0-8	
Carbon Tetrachloride	118	112	63-147	49-161	5	0-10	
Chlorobenzene	105	108	89-119	84-124	3	0-7	
1,2-Dibromoethane	109	108	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	104	105	89-119	84-124	1	0-9	
1,1-Dichloroethene	113	109	77-125	69-133	4	0-16	
Ethylbenzene	108	108	80-120	73-127	0	0-20	
Toluene	103	105	83-125	76-132	1	0-9	
Trichloroethene	109	107	89-119	84-124	2	0-8	
Vinyl Chloride	116	113	63-135	51-147	2	0-13	
Methyl-t-Butyl Ether (MTBE)	97	95	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	104	101	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	111	108	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	107	106	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	104	105	76-124	68-132	1	0-10	
Ethanol	100	106	60-138	47-151	7	0-32	

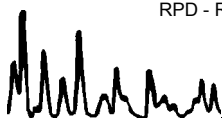
Total number of LCS compounds : 16

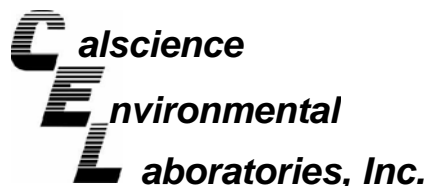
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
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San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1720
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,218	Aqueous	GC/MS EE	07/23/09	07/23/09	090723L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	101	84-120	78-126	1	0-8	
Carbon Tetrachloride	117	118	63-147	49-161	1	0-10	
Chlorobenzene	105	108	89-119	84-124	3	0-7	
1,2-Dibromoethane	111	113	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	106	108	89-119	84-124	2	0-9	
1,1-Dichloroethene	114	115	77-125	69-133	0	0-16	
Ethylbenzene	105	108	80-120	73-127	3	0-20	
Toluene	104	106	83-125	76-132	2	0-9	
Trichloroethene	105	106	89-119	84-124	2	0-8	
Vinyl Chloride	116	115	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	99	107	82-118	76-124	7	0-13	
Tert-Butyl Alcohol (TBA)	102	102	46-154	28-172	1	0-32	
Diisopropyl Ether (DIPE)	109	109	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	104	106	74-122	66-130	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	107	108	76-124	68-132	1	0-10	
Ethanol	105	100	60-138	47-151	5	0-32	

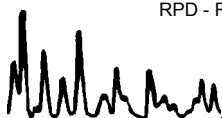
Total number of LCS compounds : 16

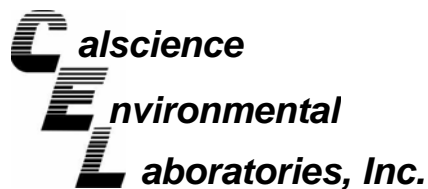
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
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San Diego, CA 92127-2116

Date Received:
Work Order No:

N/A
09-07-1720

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-351	N/A	07/21/09	104	103	90-110	1	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-351	N/A	07/21/09	100	95	90-110	5	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-351	N/A	07/21/09	103	102	90-110	1	0-15	
Sulfate	EPA 300.0	099-12-906-351	N/A	07/21/09	102	101	90-110	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit



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Date Received: N/A
 Work Order No: 09-07-1720

Project: Teledyne Ryan

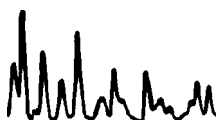
Matrix : Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Conc. Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 D	099-05-097-3,499	07/23/09	N/A	5.00	5.10	102	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 09-07-1720

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



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 1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

CHAIN OF CUSTODY
 CLIENT: Geosyntec
 SITE: Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

1720

CONDUCT ANALYSIS TO DETECT		LAB	CalScience	DHS #	
VOCs by 8260B	X	SPECIAL INSTRUCTIONS *Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids *** Metals samples have been field filtered Send Invoice and Report to: Brian Hitchens Geosyntec: 10875 Rancho Bernardo Rd, suite 200 San Diego, CA 92127 (858) 674-6559			
Ethene/Ethane/Methane (RSK 175)	X				
SVOCs 8270 SIM Super					
TPH (8015)					
PCBs (1668A)					
Metals (6010B/7470A)					
1,4-Dioxane (Modified 8270)*					
FISB Sampling Suite**	X	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
Total Chromium/Hexavalent Chromium					1
					2
					3
					4
					5
					6
					7

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	7-21-09	0945	Chris Davis, Keri H. S.	7-21-09	1500	[Signature]	7/21/09	1705
RELEASED BY				7/21/09	1705	[Signature]	7/21/09	1705
RELEASED BY						[Signature]		

RESULTS NEEDED NO LATER THAN

SHIPPED VIA

DATE SENT

TIME SENT

COOLER #

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blaine Tech

DATE: 7/2/19

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.3 °C - 0.2°C (CF) = 2.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: [Signature]

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: [Signature]

Sample _____ No (Not Intact) Not Present Initial: [Signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOA⁵h VOA²h 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

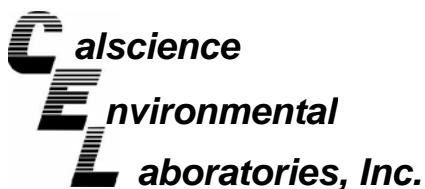
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz^{na} 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® _____ **Other:** _____ **Checked/Labeled by:** HL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** T.N

Preservative: h: HCL n: HNO3 na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z^{na}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** HL



July 29, 2009

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 09-07-1721**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 7/21/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

CASE NARRATIVE

Calscience Work Order No.: 09-07-1721

Data Summary

EPA 8270C SIM PAHs

Blanks

The method blank data showed non-detectable levels, with the exception of trace levels of select constituents. Any affected sample results have been flagged with a "B" qualifier. Note the presence of these constituents is attributed to laboratory contamination and, therefore, the results are released without further action or clarification. Please see Table A below for details:

Table A: Trace levels present in associated method blanks	
EPA 8270C SIM PAHs	
Batch #	Analyte(s)
090722L03	Di-n-Butyl Phthalate



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

Page 1 of 3

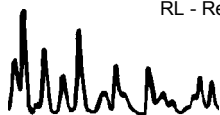
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-6	09-07-1721-3-D	07/21/09 12:47	Aqueous	ICP 5300	07/22/09	07/22/09 19:40	090722LA1F

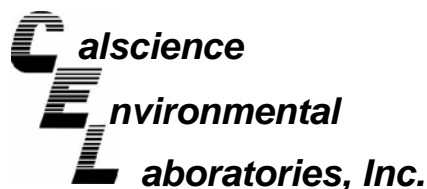
Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

-Mercury was analyzed on 07/22/2009 4:45:56 PM with batch 090722L03F

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	0.00855	0.0150	0.00209	1	J	mg/L
Arsenic	0.00311	0.0100	0.00308	1	J	mg/L
Barium	0.0420	0.0100	0.000719	1		mg/L
Beryllium	ND	0.00100	0.000176	1		mg/L
Cadmium	ND	0.00500	0.000350	1		mg/L
Chromium	0.00479	0.00500	0.000350	1	J	mg/L
Cobalt	ND	0.00500	0.000696	1		mg/L
Copper	0.00137	0.00500	0.00134	1	J	mg/L
Lead	ND	0.0100	0.00236	1		mg/L
Mercury	ND	0.000500	0.0000177	1		mg/L
Molybdenum	0.00523	0.00500	0.000800	1		mg/L
Nickel	0.00287	0.00500	0.00137	1	J	mg/L
Selenium	0.0124	0.0150	0.00295	1	J	mg/L
Silver	0.00188	0.00500	0.000400	1	J	mg/L
Thallium	0.00323	0.0150	0.00233	1	J	mg/L
Vanadium	0.00295	0.00500	0.000314	1	J	mg/L
Zinc	0.00857	0.0100	0.000848	1	J	mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-4	09-07-1721-4-D	07/21/09 14:07	Aqueous	ICP 5300	07/22/09	07/22/09 19:41	090722LA1F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 07/22/2009 4:48:05 PM with batch 090722L03F

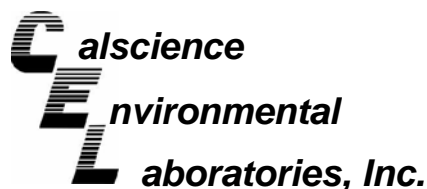
Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00209	1		mg/L
Arsenic	ND	0.0100	0.00308	1		mg/L
Barium	0.0556	0.0100	0.000719	1		mg/L
Beryllium	ND	0.00100	0.000176	1		mg/L
Cadmium	ND	0.00500	0.000350	1		mg/L
Chromium	ND	0.00500	0.000350	1		mg/L
Cobalt	ND	0.00500	0.000696	1		mg/L
Copper	ND	0.00500	0.00134	1		mg/L
Lead	ND	0.0100	0.00236	1		mg/L
Mercury	0.000424	0.000500	0.0000177	1	J	mg/L
Molybdenum	0.00727	0.00500	0.000800	1		mg/L
Nickel	0.00341	0.00500	0.00137	1	J	mg/L
Selenium	ND	0.0150	0.00295	1		mg/L
Silver	0.00131	0.00500	0.000400	1	J	mg/L
Thallium	ND	0.0150	0.00233	1		mg/L
Vanadium	0.00467	0.00500	0.000314	1	J	mg/L
Zinc	0.00617	0.0100	0.000848	1	J	mg/L

Method Blank	099-04-008-4,230	N/A	Aqueous	Mercury	07/22/09	07/22/09 16:01	090722L03F
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Mercury	ND	0.000500	0.0000177	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 3005A Filt. / EPA 7470A Filt.
Method: EPA 6010B / EPA 7470A

Project: Teledyne Ryan

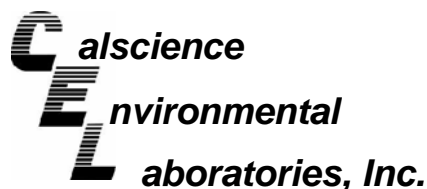
Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	097-01-003-9,577	N/A	Aqueous	ICP 5300	07/22/09	07/22/09 18:53	090722LA1F

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Antimony	ND	0.0150	0.00209	1		mg/L
Arsenic	ND	0.0100	0.00308	1		mg/L
Barium	ND	0.0100	0.000719	1		mg/L
Beryllium	ND	0.00100	0.000176	1		mg/L
Cadmium	ND	0.00500	0.000350	1		mg/L
Chromium	ND	0.00500	0.000350	1		mg/L
Cobalt	ND	0.00500	0.000696	1		mg/L
Copper	ND	0.00500	0.00134	1		mg/L
Lead	ND	0.0100	0.00236	1		mg/L
Molybdenum	ND	0.00500	0.000800	1		mg/L
Nickel	ND	0.00500	0.00137	1		mg/L
Selenium	ND	0.0150	0.00295	1		mg/L
Silver	ND	0.00500	0.000400	1		mg/L
Thallium	ND	0.0150	0.00233	1		mg/L
Vanadium	ND	0.00500	0.000314	1		mg/L
Zinc	ND	0.0100	0.000848	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
AreaD-MW1	09-07-1721-1-D	07/21/09 10:41	Aqueous	GC 27	07/23/09	07/23/09 21:29	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	7.5		0.0	1	
C7	51		0.0	1		C23-C24	4.6		0.0	1	
C8	180		0.0	1		C25-C28	ND		0.0	1	
C9-C10	28		0.0	1		C29-C32	ND		0.0	1	
C11-C12	120		0.0	1		C33-C36	ND		0.0	1	
C13-C14	82		0.0	1		C37-C40	ND		0.0	1	
C15-C16	76		0.0	1		C41-C44	ND		0.0	1	
C17-C18	210		0.0	1		C6-C44 Total	850	500	480	1	
C19-C20	86		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	109	68-140									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
AreaD-MW2	09-07-1721-2-D	07/21/09 11:28	Aqueous	GC 27	07/23/09	07/23/09 21:47	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	ND		0.0	1	
C7	20		0.0	1		C23-C24	ND		0.0	1	
C8	43		0.0	1		C25-C28	ND		0.0	1	
C9-C10	24		0.0	1		C29-C32	ND		0.0	1	
C11-C12	43		0.0	1		C33-C36	ND		0.0	1	
C13-C14	4.0		0.0	1		C37-C40	ND		0.0	1	
C15-C16	ND		0.0	1		C41-C44	ND		0.0	1	
C17-C18	ND		0.0	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	112	68-140									

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-6	09-07-1721-3-E	07/21/09 12:47	Aqueous	GC 27	07/23/09	07/23/09 10:05	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	ND		0.0	1	
C7	12		0.0	1		C23-C24	ND		0.0	1	
C8	9.5		0.0	1		C25-C28	ND		0.0	1	
C9-C10	ND		0.0	1		C29-C32	ND		0.0	1	
C11-C12	ND		0.0	1		C33-C36	ND		0.0	1	
C13-C14	ND		0.0	1		C37-C40	ND		0.0	1	
C15-C16	ND		0.0	1		C41-C44	ND		0.0	1	
C17-C18	ND		0.0	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	109	68-140									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-4	09-07-1721-4-E	07/21/09 14:07	Aqueous	GC 27	07/23/09	07/23/09 10:23	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	ND		0.0	1	
C7	ND		0.0	1		C23-C24	ND		0.0	1	
C8	ND		0.0	1		C25-C28	ND		0.0	1	
C9-C10	ND		0.0	1		C29-C32	ND		0.0	1	
C11-C12	ND		0.0	1		C33-C36	ND		0.0	1	
C13-C14	ND		0.0	1		C37-C40	ND		0.0	1	
C15-C16	ND		0.0	1		C41-C44	ND		0.0	1	
C17-C18	ND		0.0	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	115	68-140									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-308-1,146	N/A	Aqueous	GC 27	07/23/09	07/23/09 20:35	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
TPH as Diesel	ND	500	480	1	
Surrogates:	REC (%)	Control Limits			Qual
Decachlorobiphenyl	96	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope
Dilution

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
AreaD-MW2	09-07-1721-2-E	07/21/09 11:28	Aqueous	GC/MS GG	07/22/09	07/24/09 14:29	090722L01D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	106	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-6	09-07-1721-3-G	07/21/09 12:47	Aqueous	GC/MS GG	07/22/09	07/24/09 14:54	090722L01D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	68	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-4	09-07-1721-4-G	07/21/09 14:07	Aqueous	GC/MS GG	07/22/09	07/24/09 15:18	090722L01D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

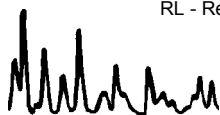
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	58	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-09-004-1,295	N/A	Aqueous	GC/MS GG	07/22/09	07/23/09 12:28	090722L01D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	117	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan


Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-6	09-07-1721-3-F	07/21/09 12:47	Aqueous	GC/MS MM	07/22/09	07/24/09 23:47	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	0.24	1.0	0.14	1	J
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	0.13	1.0	0.10	1	J
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	0.12	1.0	0.096	1	B,J
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	1.0	0.11	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	1.0	0.088	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	1.0	0.088	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
2,4,6-Tribromophenol	99	24-152				2-Fluorobiphenyl	66	33-144			
2-Fluorophenol	60	31-142				Nitrobenzene-d5	79	28-139			
p-Terphenyl-d14	73	23-160				Phenol-d6	57	30-136			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan


Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-4	09-07-1721-4-F	07/21/09 14:07	Aqueous	GC/MS MM	07/22/09	07/25/09 00:32	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	1.0	0.14	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	1.0	0.10	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	0.58	1.0	0.096	1	B,J
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	1.0	0.11	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	0.16	1.0	0.088	1	J
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	1.0	0.088	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
2,4,6-Tribromophenol	81	24-152				2-Fluorobiphenyl	62	33-144			
2-Fluorophenol	60	31-142				Nitrobenzene-d5	77	28-139			
p-Terphenyl-d14	70	23-160				Phenol-d6	56	30-136			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 3510C
Method: EPA 8270C SIM
Units: ug/L

Project: Teledyne Ryan

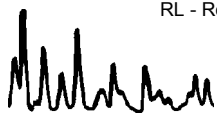
Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-430-67	N/A	Aqueous	GC/MS MM	07/22/09	07/28/09 11:44	090722L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1-Methylnaphthalene	ND	1.0	0.092	1		Benzo (b) Fluoranthene	ND	1.0	0.13	1	
2,4,5-Trichlorophenol	ND	1.0	0.066	1		Benzo (g,h,i) Perylene	ND	1.0	0.12	1	
2,4,6-Trichlorophenol	ND	1.0	0.079	1		Benzo (k) Fluoranthene	ND	1.0	0.12	1	
2,4-Dichlorophenol	ND	1.0	0.097	1		Bis(2-Ethylhexyl) Phthalate	ND	1.0	0.14	1	
2,4-Dimethylphenol	ND	1.0	0.092	1		Butyl Benzyl Phthalate	ND	1.0	0.10	1	
2,4-Dinitrophenol	ND	10	1.9	1		Chrysene	ND	1.0	0.090	1	
2-Chlorophenol	ND	1.0	0.10	1		Di-n-Butyl Phthalate	0.17	1.0	0.096	1	J
2-Methylnaphthalene	ND	1.0	0.094	1		Di-n-Octyl Phthalate	ND	1.0	0.11	1	
2-Methylphenol	ND	1.0	0.11	1		Dibenz (a,h) Anthracene	ND	1.0	0.096	1	
2-Nitrophenol	ND	1.0	0.14	1		Diethyl Phthalate	ND	1.0	0.088	1	
3/4-Methylphenol	ND	1.0	0.10	1		Dimethyl Phthalate	ND	1.0	0.088	1	
4,6-Dinitro-2-Methylphenol	ND	10	2.3	1		Fluoranthene	ND	1.0	0.091	1	
4-Chloro-3-Methylphenol	ND	1.0	0.11	1		Fluorene	ND	1.0	0.090	1	
4-Nitrophenol	ND	20	3.4	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.12	1	
Acenaphthene	ND	1.0	0.086	1		Naphthalene	ND	1.0	0.097	1	
Acenaphthylene	ND	1.0	0.086	1		Pentachlorophenol	ND	10	2.6	1	
Anthracene	ND	1.0	0.086	1		Phenanthrene	ND	1.0	0.089	1	
Benzo (a) Anthracene	ND	1.0	0.093	1		Phenol	ND	1.0	0.12	1	
Benzo (a) Pyrene	ND	1.0	0.12	1		Pyrene	ND	1.0	0.11	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
2,4,6-Tribromophenol	66	24-152				2-Fluorobiphenyl	104	33-144			
2-Fluorophenol	42	31-142				Nitrobenzene-d5	94	28-139			
p-Terphenyl-d14	88	23-160				Phenol-d6	46	30-136			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

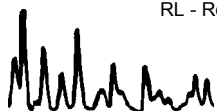
Page 1 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
AreaD-MW1	09-07-1721-1-A	07/21/09 10:41	Aqueous	GC/MS EE	07/22/09	07/23/09 06:06	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	16	50	9.1	1	J	1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Dibromofluoromethane	119	82-130				1,2-Dichloroethane-d4	117	75-141			
Toluene-d8	103	83-113				1,4-Bromofluorobenzene	90	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 2 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
AreaD-MW2	09-07-1721-2-A	07/21/09 11:28	Aqueous	GC/MS EE	07/22/09	07/23/09 06:36	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	1.1	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	115	82-130				1,2-Dichloroethane-d4	116	75-141			
Toluene-d8	102	83-113				1,4-Bromofluorobenzene	91	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

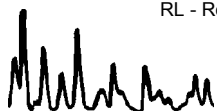
Page 3 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-6	09-07-1721-3-A	07/21/09 12:47	Aqueous	GC/MS EE	07/22/09	07/23/09 07:06	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Dibromofluoromethane	115	82-130				1,2-Dichloroethane-d4	119	75-141			
Toluene-d8	103	83-113				1,4-Bromofluorobenzene	90	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

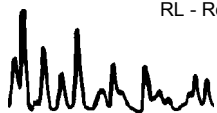
Page 4 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MWCL-4	09-07-1721-4-A	07/21/09 14:07	Aqueous	GC/MS EE	07/22/09	07/23/09 07:36	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	117	82-130				1,2-Dichloroethane-d4	122	75-141			
Toluene-d8	102	83-113				1,4-Bromofluorobenzene	88	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan


Page 5 of 6

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-4	09-07-1721-5-A	07/21/09 14:40	Aqueous	GC/MS EE	07/22/09	07/23/09 08:06	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropene	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	115	82-130				1,2-Dichloroethane-d4	121	75-141			
Toluene-d8	100	83-113				1,4-Bromofluorobenzene	88	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan


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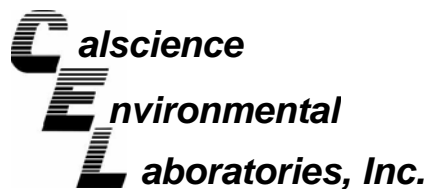
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,206	N/A	Aqueous	GC/MS EE	07/22/09	07/23/09 02:06	090722L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	105	82-130				1,2-Dichloroethane-d4	103	75-141			
Toluene-d8	98	83-113				1,4-Bromofluorobenzene	89	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

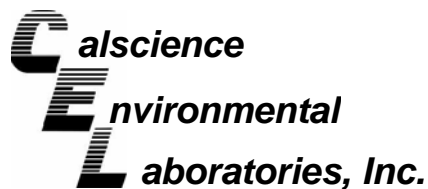
Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 3010A Total
Method: EPA 6010B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1740-1	Aqueous	ICP 5300	07/22/09	07/22/09	090722SA1

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	103	100	72-132	2	0-10	
Arsenic	108	107	80-140	1	0-11	
Barium	110	110	87-123	0	0-6	
Beryllium	109	104	89-119	5	0-8	
Cadmium	107	103	82-124	4	0-7	
Chromium	104	99	86-122	5	0-8	
Cobalt	106	105	83-125	1	0-7	
Copper	109	104	78-126	4	0-7	
Lead	103	102	84-120	0	0-7	
Molybdenum	97	96	78-126	1	0-7	
Nickel	104	102	84-120	2	0-7	
Selenium	106	106	79-127	0	0-9	
Silver	112	112	86-128	0	0-7	
Thallium	102	101	79-121	1	0-8	
Vanadium	107	102	88-118	5	0-7	
Zinc	108	105	89-131	3	0-8	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

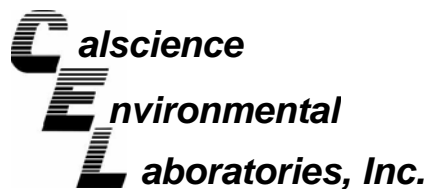
Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 7470A Total
Method: EPA 7470A

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1741-1	Aqueous	Mercury	07/22/09	07/22/09	090722S03

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	123	124	57-141	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

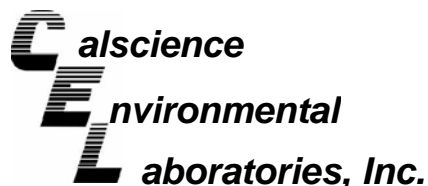
Date Received: 07/21/09
Work Order No: 09-07-1721
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1499-7	Aqueous	GC/MS EE	07/22/09	07/22/09	090722S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	88	89	88-118	1	0-7	
Carbon Tetrachloride	101	96	67-145	6	0-11	
Chlorobenzene	98	97	88-118	0	0-7	
1,2-Dibromoethane	106	106	70-130	1	0-30	
1,2-Dichlorobenzene	100	98	86-116	2	0-8	
1,1-Dichloroethene	94	89	70-130	5	0-25	
Ethylbenzene	96	96	70-130	0	0-30	
Toluene	93	94	87-123	2	0-8	
Trichloroethene	91	91	79-127	1	0-10	
Vinyl Chloride	93	93	69-129	0	0-13	
Methyl-t-Butyl Ether (MTBE)	97	94	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	102	99	36-168	3	0-45	
Diisopropyl Ether (DIPE)	105	100	81-123	4	0-9	
Ethyl-t-Butyl Ether (ETBE)	106	103	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	107	72-126	1	0-12	
Ethanol	98	100	53-149	3	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1721
Preparation: EPA 3005A Filt.
Method: EPA 6010B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
097-01-003-9,577	Aqueous	ICP 5300	07/22/09	07/22/09	090722LA1F		
<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>ME CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Antimony	102	100	80-120	73-127	2	0-20	
Arsenic	103	102	80-120	73-127	1	0-20	
Barium	108	103	80-120	73-127	4	0-20	
Beryllium	102	99	80-120	73-127	2	0-20	
Cadmium	105	103	80-120	73-127	1	0-20	
Chromium	101	99	80-120	73-127	2	0-20	
Cobalt	109	107	80-120	73-127	2	0-20	
Copper	103	101	80-120	73-127	2	0-20	
Lead	106	105	80-120	73-127	1	0-20	
Molybdenum	97	95	80-120	73-127	2	0-20	
Nickel	107	104	80-120	73-127	3	0-20	
Selenium	99	97	80-120	73-127	2	0-20	
Silver	105	101	80-120	73-127	4	0-20	
Thallium	105	103	80-120	73-127	2	0-20	
Vanadium	101	99	80-120	73-127	2	0-20	
Zinc	102	102	80-120	73-127	0	0-20	

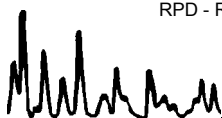
Total number of LCS compounds : 16

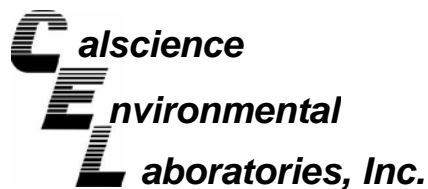
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

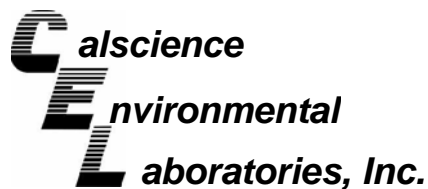
Date Received: N/A
Work Order No: 09-07-1721
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,146	Aqueous	GC 27	07/23/09	07/23/09	090723B04

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	99	98	75-117	2	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

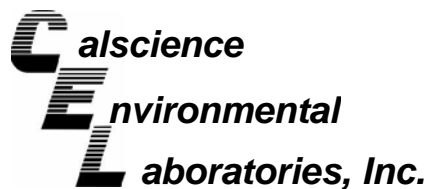
Date Received: N/A
Work Order No: 09-07-1721
Preparation: EPA 7470A Filt.
Method: EPA 7470A

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-008-4,230	Aqueous	Mercury	07/22/09	07/22/09	090722L03F

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Mercury	108	109	85-121	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1721
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,295	Aqueous	GC/MS GG	07/22/09	07/23/09	090722L01D

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	106	100	50-130	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1721
Preparation: EPA 3510C
Method: EPA 8270C SIM

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-12-430-67	Aqueous	GC/MS MM	07/22/09	07/25/09	090722L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
2,4,5-Trichlorophenol	84	92	40-160	20-180	9	0-20	
2,4-Dichlorophenol	89	97	40-160	20-180	9	0-20	
2-Methylphenol	83	90	40-160	20-180	8	0-20	
2-Nitrophenol	82	88	40-160	20-180	7	0-20	
4-Chloro-3-Methylphenol	90	99	40-160	20-180	9	0-20	
Acenaphthene	74	81	55-121	44-132	9	0-15	
Benzo (a) Pyrene	83	95	17-163	0-187	13	0-20	
Chrysene	81	91	17-168	0-193	12	0-20	
Di-n-Butyl Phthalate	77	85	40-160	20-180	10	0-20	
Dimethyl Phthalate	77	86	40-160	20-180	11	0-20	
Fluoranthene	74	83	26-137	8-156	12	0-20	
Fluorene	78	87	59-121	49-131	10	0-20	
N-Nitrosodimethylamine	62	66	40-160	20-180	7	0-20	
Naphthalene	68	74	21-133	2-152	8	0-20	
Phenanthrene	81	90	54-120	43-131	11	0-20	
Phenol	53	57	40-160	20-180	8	0-20	
Pyrene	75	85	45-129	31-143	12	0-15	

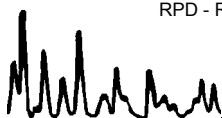
Total number of LCS compounds : 17

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1721
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,206	Aqueous	GC/MS EE	07/22/09	07/23/09	090722L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	98	99	84-120	78-126	1	0-8	
Carbon Tetrachloride	118	112	63-147	49-161	5	0-10	
Chlorobenzene	105	108	89-119	84-124	3	0-7	
1,2-Dibromoethane	109	108	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	104	105	89-119	84-124	1	0-9	
1,1-Dichloroethene	113	109	77-125	69-133	4	0-16	
Ethylbenzene	108	108	80-120	73-127	0	0-20	
Toluene	103	105	83-125	76-132	1	0-9	
Trichloroethene	109	107	89-119	84-124	2	0-8	
Vinyl Chloride	116	113	63-135	51-147	2	0-13	
Methyl-t-Butyl Ether (MTBE)	97	95	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	104	101	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	111	108	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	107	106	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	104	105	76-124	68-132	1	0-10	
Ethanol	100	106	60-138	47-151	7	0-32	

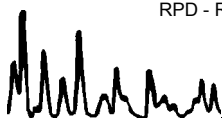
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

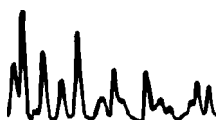
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 09-07-1721

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis. Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY
CLIENT: Geosyntec
SITE: Teledyne Ryan
2701 N. Harbor Drive
San Diego, CA

BTS #
Geosyntec
Teledyne Ryan
2701 N. Harbor Drive
San Diego, CA

SAMPLE I.D.	DATE	TIME	MATRIX		TOTAL	CONTAINERS
			S # SOIL	W # H ₂ O		
Area-D-001	7-21-09	1041	✓		4	
Area-D-002	7-21-09	1129	✓		5	
MWLL-6	7-21-09	1247	✓		7	
MWLL-4	7-21-09	1407	✓		7	
CECB-4	7-21-09	1440	✓		3	

CONDUCT ANALYSIS TO DETECT		ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
Ethene/Ethane/Methane (RSK 175)	VOCs by 8260B				
SVOCs 8270 SIM Super	X				1
TPH (8015)	X				2
PCBe (1668A)					3
Metals (6010B/7470A)	X				4
1,4-Dioxane (Modified 8270)*	X				5
EISB Sampling Suite**					
Total Chromium/Hexavalent Chromium					

LAB: CalScience
SPECIAL INSTRUCTIONS:
*Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
**EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
*** Metals samples have been field filtered
Send invoice and Report to:
Brian Hitchens
Geosyntec: 10875 Rancho Bernardo Rd, suite 200
San Diego, CA 92127
(858) 574-6559

RESULTS NEEDED NO LATER THAN
DATE: 7/21/09 TIME: 1500 RECEIVED BY: CBL DATE: 7/21/09 TIME: 1500
DATE: 7/21/09 TIME: 1705 RECEIVED BY: [Signature] DATE: 7/21/09 TIME: 1705
DATE: [] TIME: [] RECEIVED BY: [] DATE: [] TIME: []

PERFORMED BY: Kennedy
RELEASED BY: [Signature]
RELEASED BY: [Signature]
RELEASED BY: [Signature]
SHIPPED VIA: [] DATE SENT: [] TIME SENT: [] COOLER #: []

(1721)

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blaine Tech

DATE: 7/21/19

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.3 °C - 0.2°C (CF) = 2.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: [Signature]

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: [Signature]

Sample _____ No (Not Intact) Not Present Initial: HL

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

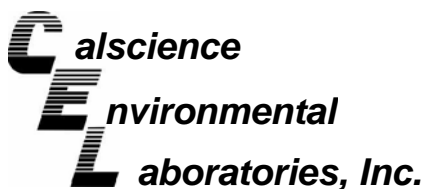
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBna₂ 125PB 125PBzanna 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Summa® _____ **Other:** _____ **Checked/Labeled by:** HL

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** T.N

Preservative: h: HCL n: HNO₃ na₂:Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ zanna: ZnAc₂+NaOH f: Field-filtered **Scanned by:** HL



July 31, 2009

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 09-07-1827**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 07/22/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW5	09-07-1827-1-D	07/22/09 07:54	Aqueous	GC 33	N/A	07/23/09 00:00	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	113	1.00	0.00547	1		ug/L
Ethylene	163	1.00	0.0933	1		ug/L
Methane	4540	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW3	09-07-1827-4-D	07/22/09 10:45	Aqueous	GC 33	N/A	07/23/09 00:00	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	4.54	1.00	0.00547	1		ug/L
Ethylene	8.66	1.00	0.0933	1		ug/L
Methane	7440	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW2	09-07-1827-5-D	07/22/09 11:39	Aqueous	GC 33	N/A	07/23/09 00:00	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	4.84	1.00	0.00547	1		ug/L
Ethylene	460	8.00	0.747	8		ug/L
Methane	6090	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	09-07-1827-6-D	07/22/09 12:30	Aqueous	GC 33	N/A	07/23/09 00:00	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

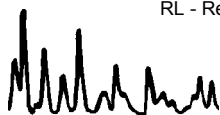
Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.450	1.00	0.00547	1	J	ug/L
Ethylene	56.0	1.00	0.0933	1		ug/L
Methane	6400	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-661-207	N/A	Aqueous	GC 33	N/A	07/23/09 00:00	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	ND	1.00	0.00547	1		ug/L
Ethylene	ND	1.00	0.0933	1		ug/L
Methane	ND	1.00	0.00784	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD102-MW4	09-07-1827-3-D	07/22/09 09:42	Aqueous	GC 27	07/23/09	07/24/09 02:35	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	ND		0.0	1	
C7	ND		0.0	1		C23-C24	ND		0.0	1	
C8	ND		0.0	1		C25-C28	ND		0.0	1	
C9-C10	ND		0.0	1		C29-C32	ND		0.0	1	
C11-C12	ND		0.0	1		C33-C36	ND		0.0	1	
C13-C14	ND		0.0	1		C37-C40	ND		0.0	1	
C15-C16	ND		0.0	1		C41-C44	ND		0.0	1	
C17-C18	ND		0.0	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	95	68-140									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	09-07-1827-6-J	07/22/09 12:30	Aqueous	GC 27	07/23/09	07/24/09 02:53	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	210		0.0	1	
C7	79		0.0	1		C23-C24	110		0.0	1	
C8	78		0.0	1		C25-C28	8.0		0.0	1	
C9-C10	270		0.0	1		C29-C32	77		0.0	1	
C11-C12	340		0.0	1		C33-C36	11		0.0	1	
C13-C14	180		0.0	1		C37-C40	ND		0.0	1	
C15-C16	160		0.0	1		C41-C44	ND		0.0	1	
C17-C18	160		0.0	1		C6-C44 Total	2500	500	480	1	
C19-C20	830		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	97	68-140									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-308-1,146	N/A	Aqueous	GC 27	07/23/09	07/23/09 20:35	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
TPH as Diesel	ND	500	480	1	
Surrogates:	REC (%)	Control Limits			Qual
Decachlorobiphenyl	96	68-140			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope
Dilution

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW5	09-07-1827-1-J	07/22/09 07:54	Aqueous	GC/MS GG	07/23/09	07/28/09 22:43	090723L05D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	440	20	4.0	10		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	118	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW4	09-07-1827-2-D	07/22/09 08:46	Aqueous	GC/MS GG	07/23/09	07/27/09 18:34	090723L05D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	15	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	112	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW3	09-07-1827-4-J	07/22/09 10:45	Aqueous	GC/MS GG	07/23/09	07/27/09 18:58	090723L05D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

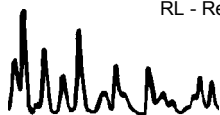
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	130	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	104	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW2	09-07-1827-5-J	07/22/09 11:39	Aqueous	GC/MS GG	07/23/09	07/27/09 19:22	090723L05D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	9.3	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	66	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	09-07-1827-6-K	07/22/09 12:30	Aqueous	GC/MS GG	07/23/09	07/28/09 23:07	090723L05D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

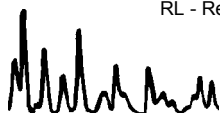
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	920	20	4.0	10		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	108	56-123				

Method Blank	099-09-004-1,296	N/A	Aqueous	GC/MS GG	07/23/09	07/24/09 18:28	090723L05D
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	87	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW5	09-07-1827-1-F	07/22/09 07:54	Aqueous	HPLC 6	N/A	07/28/09 13:06	090728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	102	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW3	09-07-1827-4-F	07/22/09 10:45	Aqueous	HPLC 6	N/A	07/28/09 14:15	090728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

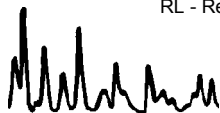
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	103	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW2	09-07-1827-5-F	07/22/09 11:39	Aqueous	HPLC 6	N/A	07/28/09 14:38	090728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	3.4	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	102	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	09-07-1827-6-F	07/22/09 12:30	Aqueous	HPLC 6	N/A	07/28/09 15:01	090728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

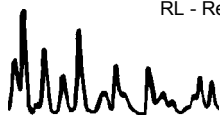
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	330	10	7.8	10		mg/L
Butyric Acid	140	10	8.3	10		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	37	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	107	80-120				

Method Blank	099-12-016-210	N/A	Aqueous	HPLC 6	N/A	07/28/09 11:57	090728L01
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	103	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 1 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW5	09-07-1827-1-A	07/22/09 07:54	Aqueous	GC/MS QQ	07/23/09	07/24/09 08:41	090723L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	500	91	10		1,3-Dichloropropane	ND	10	3.8	10	
Benzene	13	5.0	2.8	10		2,2-Dichloropropane	ND	10	4.6	10	
Bromobenzene	ND	10	3.3	10		1,1-Dichloropropene	ND	10	2.6	10	
Bromochloromethane	ND	10	6.9	10		c-1,3-Dichloropropene	ND	5.0	2.8	10	
Bromodichloromethane	ND	10	3.3	10		t-1,3-Dichloropropene	ND	5.0	3.6	10	
Bromoform	ND	10	5.5	10		Ethylbenzene	ND	10	2.2	10	
Bromomethane	ND	100	43	10		2-Hexanone	ND	100	69	10	
2-Butanone	ND	100	69	10		Isopropylbenzene	ND	10	2.3	10	
n-Butylbenzene	ND	10	2.8	10		p-Isopropyltoluene	ND	10	2.6	10	
sec-Butylbenzene	ND	10	2.0	10		Methylene Chloride	ND	100	26	10	
tert-Butylbenzene	ND	10	2.8	10		4-Methyl-2-Pentanone	ND	100	44	10	
Carbon Disulfide	ND	100	19	10		Naphthalene	ND	100	25	10	
Carbon Tetrachloride	ND	5.0	4.3	10		n-Propylbenzene	ND	10	7.9	10	
Chlorobenzene	ND	10	2.2	10		Styrene	ND	10	3.0	10	
Chloroethane	ND	50	13	10		1,1,1,2-Tetrachloroethane	ND	10	3.5	10	
Chloroform	ND	10	3.3	10		1,1,2,2-Tetrachloroethane	ND	10	4.4	10	
Chloromethane	ND	100	4.9	10		Tetrachloroethene	ND	10	5.1	10	
2-Chlorotoluene	ND	10	5.5	10		Toluene	ND	10	3.3	10	
4-Chlorotoluene	ND	10	2.1	10		1,2,3-Trichlorobenzene	ND	10	3.1	10	
Dibromochloromethane	ND	10	4.8	10		1,2,4-Trichlorobenzene	ND	10	4.9	10	
1,2-Dibromo-3-Chloropropane	ND	50	31	10		1,1,1-Trichloroethane	ND	10	4.5	10	
1,2-Dibromoethane	ND	10	4.7	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	6.4	10	
Dibromomethane	ND	10	5.9	10		1,1,2-Trichloroethane	ND	10	5.4	10	
1,2-Dichlorobenzene	ND	10	2.7	10		Trichloroethene	ND	10	3.0	10	
1,3-Dichlorobenzene	ND	10	2.8	10		Trichlorofluoromethane	ND	100	3.1	10	
1,4-Dichlorobenzene	ND	10	2.1	10		1,2,3-Trichloropropane	ND	50	13	10	
Dichlorodifluoromethane	ND	10	4.9	10		1,2,4-Trimethylbenzene	ND	10	2.4	10	
1,1-Dichloroethane	ND	10	3.7	10		1,3,5-Trimethylbenzene	ND	10	2.3	10	
1,2-Dichloroethane	ND	5.0	3.1	10		Vinyl Acetate	ND	100	71	10	
1,1-Dichloroethene	ND	10	4.0	10		Vinyl Chloride	2500	10	6.5	20	
c-1,2-Dichloroethene	ND	10	4.9	10		p/m-Xylene	ND	10	4.5	10	
t-1,2-Dichloroethene	15	10	4.0	10		o-Xylene	ND	10	2.4	10	
1,2-Dichloropropane	ND	10	3.8	10		Methyl-t-Butyl Ether (MTBE)	ND	10	3.0	10	
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Dibromofluoromethane	108	82-130				1,2-Dichloroethane-d4	107	75-141			
Toluene-d8	103	83-113				1,4-Bromofluorobenzene	98	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 2 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW4	09-07-1827-2-A	07/22/09 08:46	Aqueous	GC/MS QQ	07/23/09	07/24/09 09:09	090723L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	28	0.50	0.33	1	
c-1,2-Dichloroethene	1.4	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	109	82-130				1,2-Dichloroethane-d4	103	75-141			
Toluene-d8	103	83-113				1,4-Bromofluorobenzene	96	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

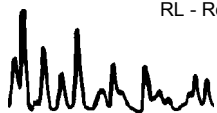
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD102-MW4	09-07-1827-3-A	07/22/09 09:42	Aqueous	GC/MS QQ	07/23/09	07/24/09 09:36	090723L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	6.1	0.50	0.33	1	
c-1,2-Dichloroethene	0.96	1.0	0.49	1	J	p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	107	82-130				1,2-Dichloroethane-d4	106	75-141			
Toluene-d8	103	83-113				1,4-Bromofluorobenzene	97	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

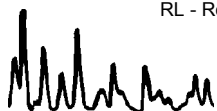
Page 4 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW3	09-07-1827-4-A	07/22/09 10:45	Aqueous	GC/MS QQ	07/23/09	07/24/09 10:03	090723L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	2.0	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	0.49	1.0	0.33	1	J
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	0.35	1.0	0.30	1	J
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	2.0	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	2.1	0.50	0.33	1	
c-1,2-Dichloroethene	1.3	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	108	82-130				1,2-Dichloroethane-d4	102	75-141			
Toluene-d8	104	83-113				1,4-Bromofluorobenzene	100	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan


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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD131-MW2	09-07-1827-5-A	07/22/09 11:39	Aqueous	GC/MS QQ	07/23/09	07/24/09 10:31	090723L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	1.2	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	2.0	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	3.4	5.0	1.3	1	J	1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	0.98	10	0.49	1	J	Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	0.86	1.0	0.33	1	J
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	4.6	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	0.39	1.0	0.28	1	J	Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	12	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	0.35	1.0	0.24	1	J
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	1.6	0.50	0.33	1	
c-1,2-Dichloroethene	0.69	1.0	0.49	1	J	p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	106	82-130				1,2-Dichloroethane-d4	104	75-141			
Toluene-d8	104	83-113				1,4-Bromofluorobenzene	109	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

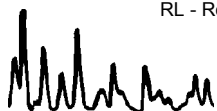
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	09-07-1827-6-C	07/22/09 12:30	Aqueous	GC/MS QQ	07/24/09	07/24/09 15:35	090724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	47	50	9.1	1	J	1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	0.41	0.50	0.28	1	J	2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	7.9	10	6.9	1	J	Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	6.1	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	1.0	10	0.49	1	J	Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	0.45	1.0	0.33	1	J
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	0.39	1.0	0.30	1	J
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	1.2	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	1.3	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	3.6	0.50	0.33	1	
c-1,2-Dichloroethene	4.0	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	3.1	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	104	82-130				1,2-Dichloroethane-d4	105	75-141			
Toluene-d8	101	83-113				1,4-Bromofluorobenzene	104	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

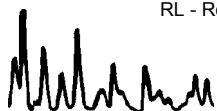
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-6	09-07-1827-7-A	07/22/09 13:00	Aqueous	GC/MS QQ	07/23/09	07/24/09 11:25	090723L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	111	82-130				1,2-Dichloroethane-d4	107	75-141			
Toluene-d8	104	83-113				1,4-Bromofluorobenzene	101	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 8 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB-6	09-07-1827-8-A	07/22/09 07:15	Aqueous	GC/MS QQ	07/23/09	07/24/09 11:53	090723L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Dibromofluoromethane	111	82-130				1,2-Dichloroethane-d4	108	75-141			
Toluene-d8	100	83-113				1,4-Bromofluorobenzene	98	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

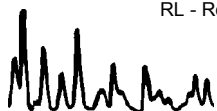
Page 9 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,236	N/A	Aqueous	GC/MS QQ	07/23/09	07/24/09 02:47	090723L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	104	82-130				1,2-Dichloroethane-d4	98	75-141			
Toluene-d8	102	83-113				1,4-Bromofluorobenzene	99	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

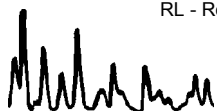
Page 10 of 10

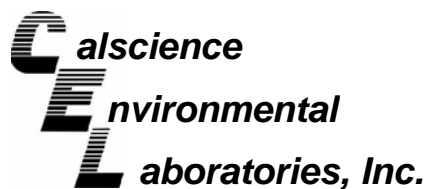
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,250	N/A	Aqueous	GC/MS QQ	07/24/09	07/24/09 15:08	090724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	107	82-130				1,2-Dichloroethane-d4	105	75-141			
Toluene-d8	102	83-113				1,4-Bromofluorobenzene	97	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD131-MW5	09-07-1827-1	07/22/09	Aqueous

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

(24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	760	20	2.7	20		mg/L	N/A	07/22/09	EPA 300.0
Nitrite (as N) (3) (24)	ND	0.20	0.026	2		mg/L	N/A	07/22/09	EPA 300.0
Nitrate (as N) (3) (24)	ND	0.20	0.033	2		mg/L	N/A	07/22/09	EPA 300.0
Sulfate	220	5.0	0.81	5		mg/L	N/A	07/22/09	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	52	2.5	0.10	5		mg/L	N/A	07/24/09	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD131-MW3	09-07-1827-4	07/22/09	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

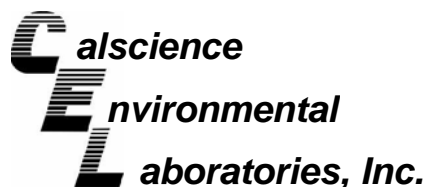
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	330	10	1.3	10		mg/L	N/A	07/22/09	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/09	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfate	9.3	1.0	0.16	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfide, Total	1.2	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	55	25	1.0	50		mg/L	N/A	07/24/09	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD131-MW2	09-07-1827-5	07/22/09	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	280	10	1.3	10		mg/L	N/A	07/22/09	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/09	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfate	2.8	1.0	0.16	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfide, Total	0.20	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	21	2.5	0.10	5		mg/L	N/A	07/24/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1827

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW1	09-07-1827-6	07/22/09	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

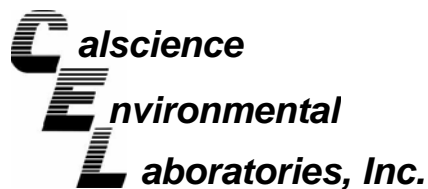
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	290	10	1.3	10		mg/L	N/A	07/22/09	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/09	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfate	3.1	1.0	0.16	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfide, Total	0.20	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	280	10	0.42	20		mg/L	N/A	07/24/09	SM 5310 D

Method Blank	N/A	Aqueous
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Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	ND	1.0	0.13	1		mg/L	N/A	07/22/09	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/09	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfate (24)	ND	1.0	0.16	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic (24)	ND	0.50	0.021	1		mg/L	N/A	07/24/09	SM 5310 D
Carbon, Total Organic (24)	ND	0.50	0.021	1		mg/L	N/A	07/24/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



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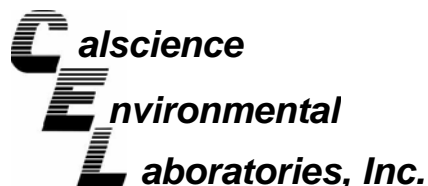
Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: N/A
Method: HPLC/UV

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD131-MW5	Aqueous	HPLC 6	N/A	07/28/09	090728S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	111	110	70-130	0	0-30	
Butyric Acid	88	89	70-130	1	0-30	
Lactic Acid	100	101	70-130	1	0-30	
Propionic Acid	85	84	70-130	1	0-30	
Pyruvic Acid	102	102	70-130	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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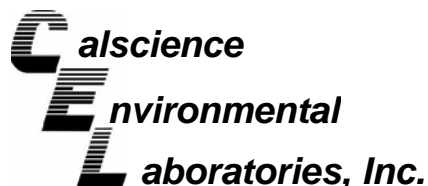
Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1842-2	Aqueous	GC/MS QQ	07/23/09	07/24/09	090723S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	94	88-118	1	0-7	
Carbon Tetrachloride	92	92	67-145	0	0-11	
Chlorobenzene	97	97	88-118	0	0-7	
1,2-Dibromoethane	98	97	70-130	1	0-30	
1,2-Dichlorobenzene	88	89	86-116	1	0-8	
1,1-Dichloroethene	102	88	70-130	14	0-25	
Ethylbenzene	95	96	70-130	2	0-30	
Toluene	95	93	87-123	2	0-8	
Trichloroethene	83	77	79-127	4	0-10	3
Vinyl Chloride	116	118	69-129	1	0-13	
Methyl-t-Butyl Ether (MTBE)	93	94	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	82	107	36-168	26	0-45	
Diisopropyl Ether (DIPE)	111	112	81-123	1	0-9	
Ethyl-t-Butyl Ether (ETBE)	110	110	72-126	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	96	96	72-126	0	0-12	
Ethanol	95	75	53-149	23	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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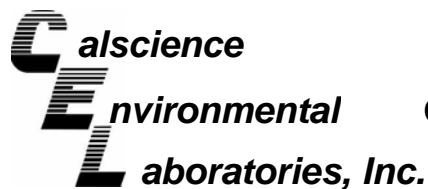
Date Received: 07/22/09
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD120-MW1	Aqueous	GC/MS QQ	07/24/09	07/24/09	090724S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	97	88-118	0	0-7	
Carbon Tetrachloride	99	99	67-145	0	0-11	
Chlorobenzene	100	100	88-118	1	0-7	
1,2-Dibromoethane	100	104	70-130	4	0-30	
1,2-Dichlorobenzene	98	96	86-116	2	0-8	
1,1-Dichloroethene	96	95	70-130	1	0-25	
Ethylbenzene	101	102	70-130	1	0-30	
Toluene	99	97	87-123	2	0-8	
Trichloroethene	97	95	79-127	2	0-10	
Vinyl Chloride	122	126	69-129	3	0-13	
Methyl-t-Butyl Ether (MTBE)	91	93	71-131	3	0-13	
Tert-Butyl Alcohol (TBA)	98	112	36-168	13	0-45	
Diisopropyl Ether (DIPE)	110	110	81-123	0	0-9	
Ethyl-t-Butyl Ether (ETBE)	125	126	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	96	72-126	0	0-12	
Ethanol	77	113	53-149	38	0-31	4

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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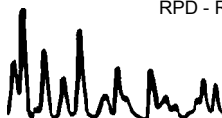
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Work Order No: 09-07-1827

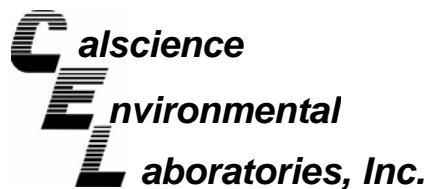
Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	09-07-1828-4	07/22/09	N/A	4X	4X	80-120	4X	0-20	Q
Nitrite (as N)	EPA 300.0	09-07-1828-4	07/22/09	N/A	89	89	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	09-07-1828-4	07/22/09	N/A	107	107	80-120	0	0-20	
Sulfate	EPA 300.0	09-07-1828-4	07/22/09	N/A	101	101	80-120	0	0-20	
Carbon, Total Organic	SM 5310 D	09-07-1831-2	07/24/09	N/A	95	95	70-130	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Duplicate



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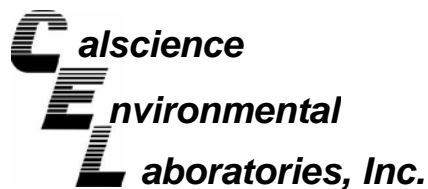
Date Received: N/A
Work Order No: 09-07-1827

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	BLD131-MW5	07/27/09	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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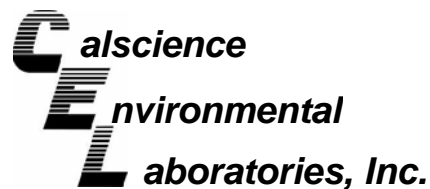
Date Received: N/A
Work Order No: 09-07-1827
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-207	Aqueous	GC 33	N/A	07/23/09	090723L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	93	93	80-120	0	0-20	
Methane	98	97	79-109	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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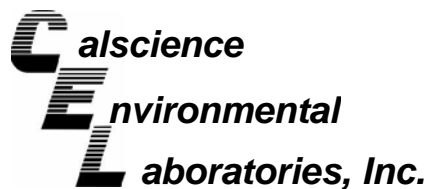
Date Received: N/A
Work Order No: 09-07-1827
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,146	Aqueous	GC 27	07/23/09	07/23/09	090723B04

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	99	98	75-117	2	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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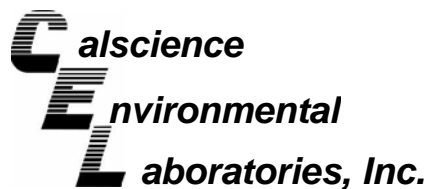
Date Received: N/A
Work Order No: 09-07-1827
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,296	Aqueous	GC/MS GG	07/23/09	07/24/09	090723L05D

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	97	99	50-130	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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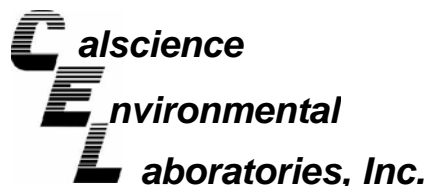
Date Received: N/A
Work Order No: 09-07-1827
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-210	Aqueous	HPLC 6	N/A	07/28/09	090728L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Acetic Acid	112	112	80-120	0	0-20	
Butyric Acid	92	88	80-120	4	0-20	
Lactic Acid	102	104	80-120	1	0-20	
Propionic Acid	92	91	80-120	1	0-20	
Pyruvic Acid	104	105	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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Date Received: N/A
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,236	Aqueous	GC/MS QQ	07/23/09	07/24/09	090723L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	95	92	84-120	78-126	4	0-8	
Carbon Tetrachloride	91	89	63-147	49-161	2	0-10	
Chlorobenzene	95	98	89-119	84-124	3	0-7	
1,2-Dibromoethane	96	98	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	90	91	89-119	84-124	1	0-9	
1,1-Dichloroethene	89	88	77-125	69-133	1	0-16	
Ethylbenzene	95	95	80-120	73-127	0	0-20	
Toluene	92	93	83-125	76-132	1	0-9	
Trichloroethene	92	93	89-119	84-124	1	0-8	
Vinyl Chloride	119	113	63-135	51-147	5	0-13	
Methyl-t-Butyl Ether (MTBE)	92	94	82-118	76-124	2	0-13	
Tert-Butyl Alcohol (TBA)	104	111	46-154	28-172	6	0-32	
Diisopropyl Ether (DIPE)	109	109	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	106	109	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	94	97	76-124	68-132	3	0-10	
Ethanol	81	82	60-138	47-151	2	0-32	

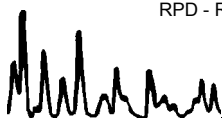
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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Date Received: N/A
Work Order No: 09-07-1827
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,250	Aqueous	GC/MS QQ	07/24/09	07/24/09	090724L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	94	94	84-120	78-126	0	0-8	
Carbon Tetrachloride	98	96	63-147	49-161	3	0-10	
Chlorobenzene	98	100	89-119	84-124	2	0-7	
1,2-Dibromoethane	97	99	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	93	95	89-119	84-124	2	0-9	
1,1-Dichloroethene	95	95	77-125	69-133	1	0-16	
Ethylbenzene	98	99	80-120	73-127	1	0-20	
Toluene	95	97	83-125	76-132	1	0-9	
Trichloroethene	94	93	89-119	84-124	1	0-8	
Vinyl Chloride	124	122	63-135	51-147	2	0-13	
Methyl-t-Butyl Ether (MTBE)	95	96	82-118	76-124	0	0-13	
Tert-Butyl Alcohol (TBA)	103	107	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	117	115	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	111	112	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	97	96	76-124	68-132	0	0-10	
Ethanol	91	80	60-138	47-151	12	0-32	

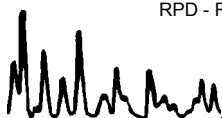
Total number of LCS compounds : 16

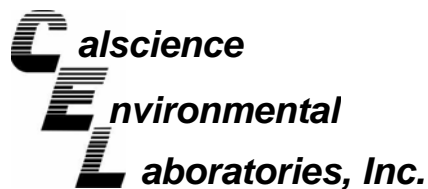
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
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San Diego, CA 92127-2116

Date Received:
Work Order No:

N/A
09-07-1827

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-355	N/A	07/22/09	104	104	90-110	0	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-355	N/A	07/22/09	95	95	90-110	0	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-355	N/A	07/22/09	108	108	90-110	0	0-15	
Sulfate	EPA 300.0	099-12-906-355	N/A	07/22/09	103	103	90-110	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit



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Date Received: N/A
 Work Order No: 09-07-1827

Project: Teledyne Ryan

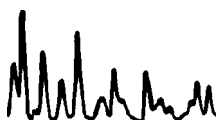
Matrix : Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Conc. Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 D	099-05-097-3,503	07/24/09	N/A	5.00	4.77	95	80-120	
Carbon, Total Organic	SM 5310 D	099-05-097-3,502	07/24/09	N/A	5.00	4.98	100	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 09-07-1827

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



BLAINE

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY
 CLIENT: Geosyntec
 SITE: Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

BTS #

Geosyntec

Teledyne Ryan

2701 N. Harbor Drive

San Diego, CA

CONTAINERS

MATRIX

S = Soil
 W = H2O

TOTAL

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

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DATE

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DATE

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DATE

TIME

DATE

TIME

LAB: CalScience
 SPECIAL INSTRUCTIONS: Modified 8270= GC/MS isotopic dilution to achieve 2ug/L detection limits
 **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
 *** Metals samples have been field filtered
 Send Invoice and Report to:
 Brian Hitchens
 Geosyntec: 10875 Rancho Bernardo Rd, suite 200
 San Diego, CA 92127
 (858) 574-6559

DHS #

CONDUCT ANALYSIS TO DETECT

VOCs by 8260B

Ethene/Ethane/Methane (RSK 175)

SVOCs 8270 SIM Super

TPH (8015)

PCBs (1668A)

Metals (6010B/7470A)

1,4-Dioxane (Modified 8270) *

EISB Sampling Suite **

Total Chromium/Hexavalent Chromium

ADD'L INFORMATION

STATUS

CONDITION

LAB SAMPLE #

RESULTS NEEDED
 NO LATER THAN

RECEIVED BY

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

1
2
3
4
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7
8

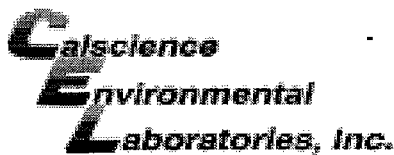
RELEASED BY: *Keithy*
 DATE: 7-22-09
 TIME: 1410
 RECEIVED BY: *CEL*
 DATE: 7/22/09
 TIME: 1410

RELEASED BY: *Keithy*
 DATE: 7-22-09
 TIME: 1630
 RECEIVED BY: *Danny Lo cel*
 DATE: 7/22/09
 TIME: 16:30

RELEASED BY: *Keithy*
 DATE: 7-22-09
 TIME: 1630
 RECEIVED BY: *Danny Lo cel*
 DATE: 7/22/09
 TIME: 16:30

1827

WORK ORDER #: 09-07-01827



SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blaine Tech

DATE: 7/22/19

TEMPERATURE: (Criteria: 0.0°C - 6.0°C, not frozen)

Temperature 2.4°C - 0.2°C (CF) = 2.2°C [X] Blank [] Sample

- [] Sample(s) outside temperature criteria (PM/APM contacted by: _____).
[] Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.
[] Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: [] Air [] Filter [] Metals Only [] PCBs Only

Initial: [Signature]

CUSTODY SEALS INTACT:

- [] Cooler [] _____ [] No (Not Intact) [X] Not Present [] N/A
[] Sample [] _____ [] No (Not Intact) [X] Not Present

Initial: [Signature]
Initial: HL

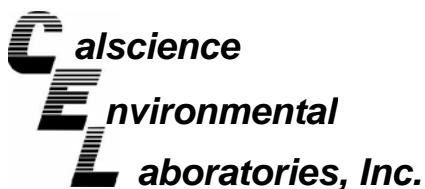
SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, Collection date/time, matrix, and/or # of containers logged in based on sample labels, etc.

CONTAINER TYPE:

- Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [] Sleeve [] EnCores [] TerraCores [] _____
Water: [] VOA [X] VOAh [] VOAna2 [] 125AGB [] 125AGBh [] 125AGBp [] 1AGB [X] 1AGBna2 [] 1AGBs
[] 500AGB [X] 500AGJ [] 500AGJs [] 250AGB [] 250CGB [X] 250CGBs [] 1PB [] 500PB [] 500PBna
[X] 250PB [] 250PBn [] 125PB [X] 125PBzanna [] 100PJ [] 100PJna2 [X] VOAP [] _____ [] _____

Air: [] Tedlar [] Summa [] _____ Other: [] _____ Checked/Labeled by: HL
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop Reviewed by: T.N
Preservative: h: HCL n: HNO3 na2:Na2S2O3 Na: NaOH p: H3PO4 s: H2SO4 zanna: ZnAc2+NaOH f: Field-filtered Scanned by: HL



July 31, 2009

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 09-07-1828**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 07/22/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	09-07-1828-4-D	07/22/09 09:55	Aqueous	GC 33	N/A	07/23/09 00:00	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.320	1.00	0.00547	1	J	ug/L
Ethylene	35.9	1.00	0.0933	1		ug/L
Methane	8330	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	09-07-1828-5-D	07/22/09 10:56	Aqueous	GC 33	N/A	07/23/09 00:00	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	1.39	1.00	0.00547	1		ug/L
Ethylene	34.6	1.00	0.0933	1		ug/L
Methane	10400	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	09-07-1828-6-D	07/22/09 12:30	Aqueous	GC 33	N/A	07/23/09 00:00	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

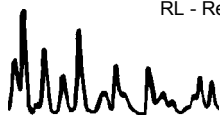
Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	0.260	1.00	0.00547	1	J	ug/L
Ethylene	841	8.00	0.747	8		ug/L
Methane	6150	40.0	0.314	40		ug/L

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-661-207	N/A	Aqueous	GC 33	N/A	07/23/09 00:00	090723L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Ethane	ND	1.00	0.00547	1		ug/L
Ethylene	ND	1.00	0.0933	1		ug/L
Methane	ND	1.00	0.00784	1		ug/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 1 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW4	09-07-1828-2-D	07/22/09 07:50	Aqueous	GC 27	07/23/09	07/24/09 12:29	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	ND		0.0	1	
C7	ND		0.0	1		C23-C24	ND		0.0	1	
C8	ND		0.0	1		C25-C28	ND		0.0	1	
C9-C10	ND		0.0	1		C29-C32	ND		0.0	1	
C11-C12	ND		0.0	1		C33-C36	ND		0.0	1	
C13-C14	ND		0.0	1		C37-C40	ND		0.0	1	
C15-C16	ND		0.0	1		C41-C44	ND		0.0	1	
C17-C18	ND		0.0	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	113	68-140									

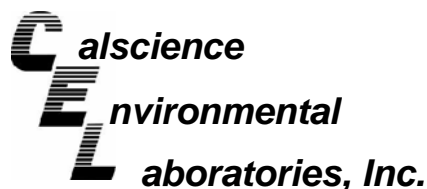
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW5	09-07-1828-3-D	07/22/09 08:45	Aqueous	GC 27	07/23/09	07/24/09 12:47	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	ND		0.0	1	
C7	ND		0.0	1		C23-C24	ND		0.0	1	
C8	ND		0.0	1		C25-C28	ND		0.0	1	
C9-C10	ND		0.0	1		C29-C32	ND		0.0	1	
C11-C12	ND		0.0	1		C33-C36	ND		0.0	1	
C13-C14	ND		0.0	1		C37-C40	ND		0.0	1	
C15-C16	ND		0.0	1		C41-C44	ND		0.0	1	
C17-C18	ND		0.0	1		C6-C44 Total	ND	500	480	1	
C19-C20	ND		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	111	68-140									

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 2 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	09-07-1828-4-K	07/22/09 09:55	Aqueous	GC 27	07/23/09	07/24/09 01:05	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	ND		0.0	1	
C7	ND		0.0	1		C23-C24	ND		0.0	1	
C8	ND		0.0	1		C25-C28	17		0.0	1	
C9-C10	ND		0.0	1		C29-C32	270		0.0	1	
C11-C12	24		0.0	1		C33-C36	500		0.0	1	
C13-C14	ND		0.0	1		C37-C40	200		0.0	1	
C15-C16	ND		0.0	1		C41-C44	14		0.0	1	
C17-C18	ND		0.0	1		C6-C44 Total	1000	500	480	1	
C19-C20	ND		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	112	68-140									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	09-07-1828-5-K	07/22/09 10:56	Aqueous	GC 27	07/23/09	07/24/09 01:23	090723B04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	1100		0.0	1	
C7	160		0.0	1		C23-C24	530		0.0	1	
C8	150		0.0	1		C25-C28	62		0.0	1	
C9-C10	310		0.0	1		C29-C32	ND		0.0	1	
C11-C12	1700		0.0	1		C33-C36	ND		0.0	1	
C13-C14	910		0.0	1		C37-C40	ND		0.0	1	
C15-C16	330		0.0	1		C41-C44	ND		0.0	1	
C17-C18	540		0.0	1		C6-C44 Total	8800	500	480	1	
C19-C20	3000		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	111	68-140									

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: Teledyne Ryan

Page 3 of 3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	09-07-1828-6-K	07/22/09 12:30	Aqueous	GC 27	07/23/09	07/24/09 01:41	090723B04

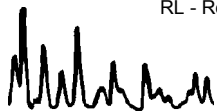
Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
C6	ND		0.0	1		C21-C22	310		0.0	1	
C7	99		0.0	1		C23-C24	190		0.0	1	
C8	500		0.0	1		C25-C28	10		0.0	1	
C9-C10	80		0.0	1		C29-C32	ND		0.0	1	
C11-C12	150		0.0	1		C33-C36	ND		0.0	1	
C13-C14	58		0.0	1		C37-C40	ND		0.0	1	
C15-C16	220		0.0	1		C41-C44	ND		0.0	1	
C17-C18	100		0.0	1		C6-C44 Total	2200	500	480	1	
C19-C20	440		0.0	1							
Surrogates:	REC (%)	Control Limits			Qual						
Decachlorobiphenyl	96	68-140									

Method Blank	099-12-308-1,146	N/A	Aqueous	GC 27	07/23/09	07/23/09 20:35	090723B04
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual
TPH as Diesel	ND	500	480	1	
Surrogates:	REC (%)	Control Limits			Qual
Decachlorobiphenyl	96	68-140			



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope
Dilution

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW4	09-07-1828-2-E	07/22/09 07:50	Aqueous	GC/MS GG	07/23/09	07/27/09 20:10	090723L05D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	110	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW5	09-07-1828-3-E	07/22/09 08:45	Aqueous	GC/MS GG	07/23/09	07/27/09 20:35	090723L05D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	110	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	09-07-1828-4-L	07/22/09 09:55	Aqueous	GC/MS GG	07/23/09	07/27/09 20:59	090723L05D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

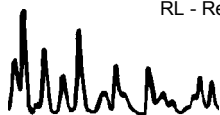
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	8.4	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	110	56-123				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	09-07-1828-5-L	07/22/09 10:56	Aqueous	GC/MS GG	07/23/09	07/28/09 23:30	090723L05D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	790	20	4.0	10		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	111	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope
Dilution

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	09-07-1828-6-L	07/22/09 12:30	Aqueous	GC/MS GG	07/23/09	07/27/09 21:47	090723L05D

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

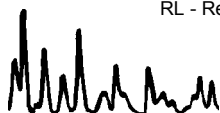
Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	33	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	14	56-123			2	

Method Blank	099-09-004-1,296	N/A	Aqueous	GC/MS GG	07/23/09	07/24/09 18:28	090723L05D
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Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
1,4-Dioxane	ND	2.0	0.40	1		ug/L
Surrogates:	REC (%)	Control Limits			Qual	
Nitrobenzene-d5	87	56-123				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	09-07-1828-4-F	07/22/09 09:55	Aqueous	HPLC 6	N/A	07/28/09 15:24	090728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	53	5.0	3.9	5		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	103	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	09-07-1828-5-F	07/22/09 10:56	Aqueous	HPLC 6	N/A	07/30/09 11:27	090728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

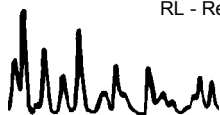
Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	2500	100	78	100		mg/L
Butyric Acid	450	20	17	20		mg/L
Lactic Acid	ND	20	14	20		mg/L
Propionic Acid	160	20	15	20		mg/L
Pyruvic Acid	ND	10	1.8	20		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	106	80-120				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	09-07-1828-6-F	07/22/09 12:30	Aqueous	HPLC 6	N/A	07/28/09 20:42	090728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	1100	100	78	100		mg/L
Butyric Acid	94	4.0	3.3	4		mg/L
Lactic Acid	ND	4.0	2.9	4		mg/L
Propionic Acid	45	4.0	3.1	4		mg/L
Pyruvic Acid	ND	2.0	0.37	4		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	105	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

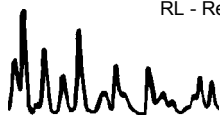
Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-016-210	N/A	Aqueous	HPLC 6	N/A	07/28/09 11:57	090728L01

Comment(s): -Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
Acetic Acid	ND	1.0	0.78	1		mg/L
Butyric Acid	ND	1.0	0.83	1		mg/L
Lactic Acid	ND	1.0	0.72	1		mg/L
Propionic Acid	ND	1.0	0.77	1		mg/L
Pyruvic Acid	ND	0.50	0.091	1		mg/L
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	
Dibromopropionic Acid	103	80-120				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 1 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCTB-5	09-07-1828-1-A	07/22/09 06:30	Aqueous	GC/MS FF	07/24/09	07/24/09 21:01	090724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Dibromofluoromethane	109	82-130				1,2-Dichloroethane-d4	113	75-141			
Toluene-d8	100	83-113				1,4-Bromofluorobenzene	100	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

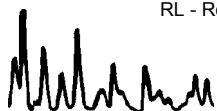
Page 2 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW4	09-07-1828-2-A	07/22/09 07:50	Aqueous	GC/MS FF	07/24/09	07/25/09 08:20	090724L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	1.8	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	111	82-130				1,2-Dichloroethane-d4	108	75-141			
Toluene-d8	101	83-113				1,4-Bromofluorobenzene	97	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW5	09-07-1828-3-A	07/22/09 08:45	Aqueous	GC/MS FF	07/24/09	07/24/09 18:32	090724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	1.7	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	111	82-130				1,2-Dichloroethane-d4	111	75-141			
Toluene-d8	103	83-113				1,4-Bromofluorobenzene	98	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

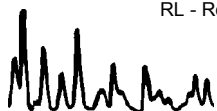
Page 4 of 10

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	09-07-1828-4-C	07/22/09 09:55	Aqueous	GC/MS FF	07/27/09	07/27/09 18:18	090727L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	13	50	9.1	1	J	1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	0.99	1.0	0.37	1	J	1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	1.3	0.50	0.33	1	
c-1,2-Dichloroethene	5.5	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits		Qual		Surrogates:	REC (%)	Control Limits		Qual	
Dibromofluoromethane	117	82-130				1,2-Dichloroethane-d4	108	75-141			
Toluene-d8	101	83-113				1,4-Bromofluorobenzene	101	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

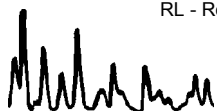
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	09-07-1828-5-A	07/22/09 10:56	Aqueous	GC/MS FF	07/24/09	07/24/09 19:32	090724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	800	250	46	5		1,3-Dichloropropane	ND	5.0	1.9	5	
Benzene	ND	2.5	1.4	5		2,2-Dichloropropane	ND	5.0	2.3	5	
Bromobenzene	ND	5.0	1.7	5		1,1-Dichloropropene	ND	5.0	1.3	5	
Bromochloromethane	ND	5.0	3.5	5		c-1,3-Dichloropropene	ND	2.5	1.4	5	
Bromodichloromethane	ND	5.0	1.7	5		t-1,3-Dichloropropene	ND	2.5	1.8	5	
Bromoform	ND	5.0	2.8	5		Ethylbenzene	ND	5.0	1.1	5	
Bromomethane	ND	50	21	5		2-Hexanone	ND	50	34	5	
2-Butanone	110	50	35	5		Isopropylbenzene	ND	5.0	1.1	5	
n-Butylbenzene	ND	5.0	1.4	5		p-Isopropyltoluene	ND	5.0	1.3	5	
sec-Butylbenzene	ND	5.0	1.0	5		Methylene Chloride	ND	50	13	5	
tert-Butylbenzene	ND	5.0	1.4	5		4-Methyl-2-Pentanone	ND	50	22	5	
Carbon Disulfide	ND	50	9.6	5		Naphthalene	ND	50	13	5	
Carbon Tetrachloride	ND	2.5	2.1	5		n-Propylbenzene	ND	5.0	4.0	5	
Chlorobenzene	ND	5.0	1.1	5		Styrene	ND	5.0	1.5	5	
Chloroethane	ND	25	6.4	5		1,1,1,2-Tetrachloroethane	ND	5.0	1.8	5	
Chloroform	ND	5.0	1.7	5		1,1,2,2-Tetrachloroethane	ND	5.0	2.2	5	
Chloromethane	ND	50	2.4	5		Tetrachloroethene	ND	5.0	2.6	5	
2-Chlorotoluene	ND	5.0	2.8	5		Toluene	ND	5.0	1.6	5	
4-Chlorotoluene	ND	5.0	1.1	5		1,2,3-Trichlorobenzene	ND	5.0	1.5	5	
Dibromochloromethane	ND	5.0	2.4	5		1,2,4-Trichlorobenzene	ND	5.0	2.4	5	
1,2-Dibromo-3-Chloropropane	ND	25	16	5		1,1,1-Trichloroethane	ND	5.0	2.2	5	
1,2-Dibromoethane	ND	5.0	2.3	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	3.2	5	
Dibromomethane	ND	5.0	2.9	5		1,1,2-Trichloroethane	ND	5.0	2.7	5	
1,2-Dichlorobenzene	ND	5.0	1.4	5		Trichloroethene	ND	5.0	1.5	5	
1,3-Dichlorobenzene	ND	5.0	1.4	5		Trichlorofluoromethane	ND	50	1.6	5	
1,4-Dichlorobenzene	ND	5.0	1.1	5		1,2,3-Trichloropropane	ND	25	6.7	5	
Dichlorodifluoromethane	ND	5.0	2.5	5		1,2,4-Trimethylbenzene	ND	5.0	1.2	5	
1,1-Dichloroethane	2.0	5.0	1.9	5	J	1,3,5-Trimethylbenzene	ND	5.0	1.2	5	
1,2-Dichloroethane	ND	2.5	1.6	5		Vinyl Acetate	ND	50	35	5	
1,1-Dichloroethene	2.9	5.0	2.0	5	J	Vinyl Chloride	2.5	2.5	1.6	5	J
c-1,2-Dichloroethene	310	5.0	2.4	5		p/m-Xylene	ND	5.0	2.3	5	
t-1,2-Dichloroethene	3.2	5.0	2.0	5	J	o-Xylene	ND	5.0	1.2	5	
1,2-Dichloropropane	ND	5.0	1.9	5		Methyl-t-Butyl Ether (MTBE)	ND	5.0	1.5	5	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	109	82-130				1,2-Dichloroethane-d4	111	75-141			
Toluene-d8	109	83-113				1,4-Bromofluorobenzene	99	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

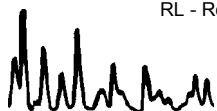
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	09-07-1828-6-A	07/22/09 12:30	Aqueous	GC/MS FF	07/24/09	07/24/09 20:01	090724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	1000	180	20		1,3-Dichloropropane	ND	20	7.6	20	
Benzene	ND	10	5.7	20		2,2-Dichloropropane	ND	20	9.2	20	
Bromobenzene	ND	20	6.7	20		1,1-Dichloropropene	ND	20	5.1	20	
Bromochloromethane	ND	20	14	20		c-1,3-Dichloropropene	ND	10	5.7	20	
Bromodichloromethane	ND	20	6.6	20		t-1,3-Dichloropropene	ND	10	7.2	20	
Bromoform	ND	20	11	20		Ethylbenzene	ND	20	4.4	20	
Bromomethane	ND	200	86	20		2-Hexanone	ND	200	140	20	
2-Butanone	ND	200	140	20		Isopropylbenzene	ND	20	4.5	20	
n-Butylbenzene	ND	20	5.5	20		p-Isopropyltoluene	ND	20	5.2	20	
sec-Butylbenzene	ND	20	4.1	20		Methylene Chloride	ND	200	52	20	
tert-Butylbenzene	ND	20	5.5	20		4-Methyl-2-Pentanone	ND	200	88	20	
Carbon Disulfide	ND	200	38	20		Naphthalene	ND	200	51	20	
Carbon Tetrachloride	ND	10	8.5	20		n-Propylbenzene	ND	20	16	20	
Chlorobenzene	ND	20	4.4	20		Styrene	ND	20	6.0	20	
Chloroethane	ND	100	26	20		1,1,1,2-Tetrachloroethane	ND	20	7.0	20	
Chloroform	ND	20	6.6	20		1,1,2,2-Tetrachloroethane	ND	20	8.8	20	
Chloromethane	ND	200	9.7	20		Tetrachloroethene	510	20	10	20	
2-Chlorotoluene	ND	20	11	20		Toluene	ND	20	6.5	20	
4-Chlorotoluene	ND	20	4.2	20		1,2,3-Trichlorobenzene	ND	20	6.1	20	
Dibromochloromethane	ND	20	9.7	20		1,2,4-Trichlorobenzene	ND	20	9.7	20	
1,2-Dibromo-3-Chloropropane	ND	100	62	20		1,1,1-Trichloroethane	ND	20	9.0	20	
1,2-Dibromoethane	ND	20	9.3	20		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	200	13	20	
Dibromomethane	ND	20	12	20		1,1,2-Trichloroethane	ND	20	11	20	
1,2-Dichlorobenzene	ND	20	5.4	20		Trichloroethene	130	20	6.1	20	
1,3-Dichlorobenzene	ND	20	5.7	20		Trichlorofluoromethane	ND	200	6.2	20	
1,4-Dichlorobenzene	ND	20	4.2	20		1,2,3-Trichloropropane	ND	100	27	20	
Dichlorodifluoromethane	ND	20	9.8	20		1,2,4-Trimethylbenzene	ND	20	4.9	20	
1,1-Dichloroethane	ND	20	7.5	20		1,3,5-Trimethylbenzene	ND	20	4.6	20	
1,2-Dichloroethane	ND	10	6.3	20		Vinyl Acetate	ND	200	140	20	
1,1-Dichloroethene	ND	20	8.0	20		Vinyl Chloride	2100	10	6.5	20	
c-1,2-Dichloroethene	5200	50	24	50		p/m-Xylene	ND	20	9.1	20	
t-1,2-Dichloroethene	31	20	8.1	20		o-Xylene	ND	20	4.7	20	
1,2-Dichloropropane	ND	20	7.6	20		Methyl-t-Butyl Ether (MTBE)	ND	20	6.1	20	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	105	82-130				1,2-Dichloroethane-d4	104	75-141			
Toluene-d8	99	83-113				1,4-Bromofluorobenzene	99	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-5	09-07-1828-7-A	07/22/09 14:00	Aqueous	GC/MS FF	07/24/09	07/24/09 20:31	090724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
Dibromofluoromethane	112	82-130				1,2-Dichloroethane-d4	111	75-141			
Toluene-d8	100	83-113				1,4-Bromofluorobenzene	99	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 07/22/09
 Work Order No: 09-07-1828
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,237	N/A	Aqueous	GC/MS FF	07/24/09	07/24/09 12:29	090724L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	114	82-130				1,2-Dichloroethane-d4	109	75-141			
Toluene-d8	97	83-113				1,4-Bromofluorobenzene	96	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

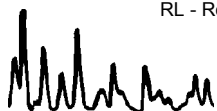
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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,248	N/A	Aqueous	GC/MS FF	07/24/09	07/25/09 00:57	090724L02

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	111	82-130				1,2-Dichloroethane-d4	113	75-141			
Toluene-d8	100	83-113				1,4-Bromofluorobenzene	96	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: Teledyne Ryan

Page 10 of 10

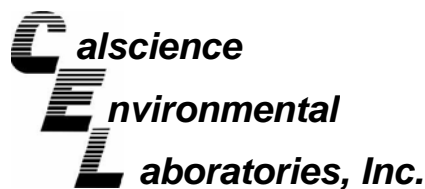
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-30,251	N/A	Aqueous	GC/MS FF	07/27/09	07/27/09 12:48	090727L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Acetone	ND	50	9.1	1		1,3-Dichloropropane	ND	1.0	0.38	1	
Benzene	ND	0.50	0.28	1		2,2-Dichloropropane	ND	1.0	0.46	1	
Bromobenzene	ND	1.0	0.33	1		1,1-Dichloropropene	ND	1.0	0.26	1	
Bromochloromethane	ND	1.0	0.69	1		c-1,3-Dichloropropene	ND	0.50	0.28	1	
Bromodichloromethane	ND	1.0	0.33	1		t-1,3-Dichloropropene	ND	0.50	0.36	1	
Bromoform	ND	1.0	0.55	1		Ethylbenzene	ND	1.0	0.22	1	
Bromomethane	ND	10	4.3	1		2-Hexanone	ND	10	6.9	1	
2-Butanone	ND	10	6.9	1		Isopropylbenzene	ND	1.0	0.23	1	
n-Butylbenzene	ND	1.0	0.28	1		p-Isopropyltoluene	ND	1.0	0.26	1	
sec-Butylbenzene	ND	1.0	0.20	1		Methylene Chloride	ND	10	2.6	1	
tert-Butylbenzene	ND	1.0	0.28	1		4-Methyl-2-Pentanone	ND	10	4.4	1	
Carbon Disulfide	ND	10	1.9	1		Naphthalene	ND	10	2.5	1	
Carbon Tetrachloride	ND	0.50	0.43	1		n-Propylbenzene	ND	1.0	0.79	1	
Chlorobenzene	ND	1.0	0.22	1		Styrene	ND	1.0	0.30	1	
Chloroethane	ND	5.0	1.3	1		1,1,1,2-Tetrachloroethane	ND	1.0	0.35	1	
Chloroform	ND	1.0	0.33	1		1,1,2,2-Tetrachloroethane	ND	1.0	0.44	1	
Chloromethane	ND	10	0.49	1		Tetrachloroethene	ND	1.0	0.51	1	
2-Chlorotoluene	ND	1.0	0.55	1		Toluene	ND	1.0	0.33	1	
4-Chlorotoluene	ND	1.0	0.21	1		1,2,3-Trichlorobenzene	ND	1.0	0.31	1	
Dibromochloromethane	ND	1.0	0.48	1		1,2,4-Trichlorobenzene	ND	1.0	0.49	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	3.1	1		1,1,1-Trichloroethane	ND	1.0	0.45	1	
1,2-Dibromoethane	ND	1.0	0.47	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.64	1	
Dibromomethane	ND	1.0	0.59	1		1,1,2-Trichloroethane	ND	1.0	0.54	1	
1,2-Dichlorobenzene	ND	1.0	0.27	1		Trichloroethene	ND	1.0	0.30	1	
1,3-Dichlorobenzene	ND	1.0	0.28	1		Trichlorofluoromethane	ND	10	0.31	1	
1,4-Dichlorobenzene	ND	1.0	0.21	1		1,2,3-Trichloropropane	ND	5.0	1.3	1	
Dichlorodifluoromethane	ND	1.0	0.49	1		1,2,4-Trimethylbenzene	ND	1.0	0.24	1	
1,1-Dichloroethane	ND	1.0	0.37	1		1,3,5-Trimethylbenzene	ND	1.0	0.23	1	
1,2-Dichloroethane	ND	0.50	0.31	1		Vinyl Acetate	ND	10	7.1	1	
1,1-Dichloroethene	ND	1.0	0.40	1		Vinyl Chloride	ND	0.50	0.33	1	
c-1,2-Dichloroethene	ND	1.0	0.49	1		p/m-Xylene	ND	1.0	0.45	1	
t-1,2-Dichloroethene	ND	1.0	0.40	1		o-Xylene	ND	1.0	0.24	1	
1,2-Dichloropropane	ND	1.0	0.38	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	0.30	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>			<u>Qual</u>
Dibromofluoromethane	107	82-130				1,2-Dichloroethane-d4	108	75-141			
Toluene-d8	101	83-113				1,4-Bromofluorobenzene	97	70-118			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW6	09-07-1828-4	07/22/09	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	190	5.0	0.67	5		mg/L	N/A	07/22/09	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/09	EPA 300.0
Nitrate (as N) (24)	0.021	0.10	0.017	1	J	mg/L	N/A	07/22/09	EPA 300.0
Sulfate	6.1	1.0	0.16	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfide, Total	0.25	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	57	25	1.0	50		mg/L	N/A	07/23/09	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW3	09-07-1828-5	07/22/09	Aqueous

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

(24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

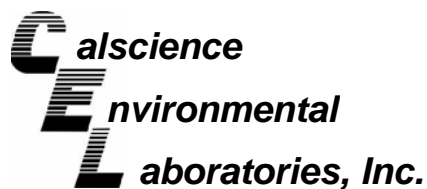
Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	560	20	2.7	20		mg/L	N/A	07/22/09	EPA 300.0
Nitrite (as N) (3)	0.62	0.20	0.026	2		mg/L	N/A	07/22/09	EPA 300.0
Nitrate (as N) (3) (24)	0.12	0.20	0.033	2	J	mg/L	N/A	07/22/09	EPA 300.0
Sulfate (3)	3.6	2.0	0.32	2		mg/L	N/A	07/22/09	EPA 300.0
Sulfide, Total	0.15	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	1800	100	4.2	200		mg/L	N/A	07/23/09	SM 5310 D

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW2	09-07-1828-6	07/22/09	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	250	10	1.3	10		mg/L	N/A	07/22/09	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/09	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfate	3.4	1.0	0.16	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfide, Total	0.10	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic	720	25	1.0	50		mg/L	N/A	07/23/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 07/22/09
Work Order No: 09-07-1828

Project: Teledyne Ryan

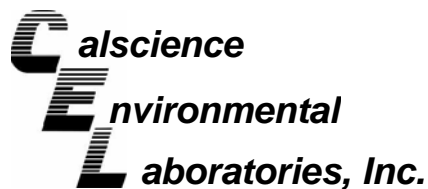
Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

Comment(s): (24) Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride (24)	ND	1.0	0.13	1		mg/L	N/A	07/22/09	EPA 300.0
Nitrite (as N) (24)	ND	0.10	0.013	1		mg/L	N/A	07/22/09	EPA 300.0
Nitrate (as N) (24)	ND	0.10	0.017	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfate (24)	ND	1.0	0.16	1		mg/L	N/A	07/22/09	EPA 300.0
Sulfide, Total (24)	ND	0.050	0.042	1		mg/L	07/27/09	07/27/09	SM 4500 S2 - D
Carbon, Total Organic (24)	ND	0.50	0.021	1		mg/L	N/A	07/23/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

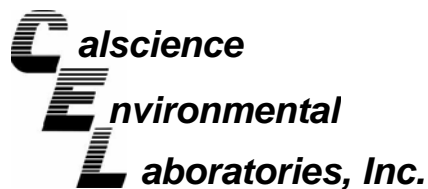
Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: N/A
Method: HPLC/UV

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1827-1	Aqueous	HPLC 6	N/A	07/28/09	090728S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	111	110	70-130	0	0-30	
Butyric Acid	88	89	70-130	1	0-30	
Lactic Acid	100	101	70-130	1	0-30	
Propionic Acid	85	84	70-130	1	0-30	
Pyruvic Acid	102	102	70-130	0	0-30	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

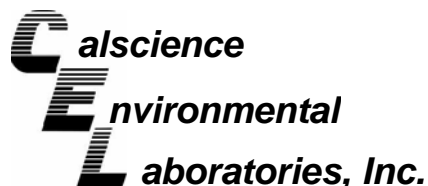
Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1839-1	Aqueous	GC/MS FF	07/24/09	07/24/09	090724S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	96	99	88-118	3	0-7	
Toluene	94	95	87-123	1	0-8	
Ethylbenzene	97	99	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	105	107	71-131	2	0-13	
Tert-Butyl Alcohol (TBA)	104	108	36-168	3	0-45	
Diisopropyl Ether (DIPE)	107	109	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	106	110	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	113	72-126	6	0-12	
Ethanol	87	86	53-149	1	0-31	
1,1-Dichloroethene	82	83	70-130	1	0-25	
1,2-Dibromoethane	108	112	70-130	4	0-30	
1,2-Dichlorobenzene	102	101	86-116	0	0-8	
Carbon Tetrachloride	102	103	67-145	1	0-11	
Chlorobenzene	96	98	88-118	3	0-7	
Trichloroethene	93	98	79-127	5	0-10	
Vinyl Chloride	67	66	69-129	2	0-13	3

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

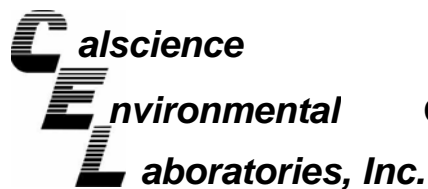
Date Received: 07/22/09
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-07-1956-1	Aqueous	GC/MS FF	07/27/09	07/27/09	090727S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	97	102	72-120	5	0-20	
Carbon Tetrachloride	98	102	63-135	4	0-20	
Chlorobenzene	95	99	80-120	4	0-20	
1,2-Dibromoethane	110	111	80-120	1	0-20	
1,2-Dichlorobenzene	97	101	80-120	4	0-20	
1,1-Dichloroethene	77	82	60-132	6	0-24	
Ethylbenzene	94	99	78-120	5	0-20	
Toluene	93	98	74-122	5	0-20	
Trichloroethene	95	99	69-120	3	0-20	
Vinyl Chloride	64	69	58-130	7	0-20	
Methyl-t-Butyl Ether (MTBE)	108	108	72-126	0	0-21	
Tert-Butyl Alcohol (TBA)	107	105	72-126	2	0-20	
Diisopropyl Ether (DIPE)	103	105	71-137	2	0-23	
Ethyl-t-Butyl Ether (ETBE)	110	108	74-128	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	113	114	76-124	1	0-20	
Ethanol	83	75	35-167	11	0-48	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

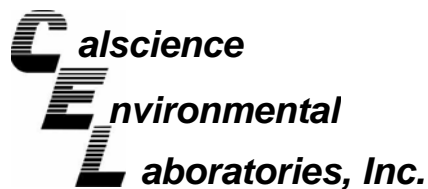
Date Received: N/A
Work Order No: 09-07-1828

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	BLD120-MW6	07/22/09	N/A	4X	4X	80-120	4X	0-20	Q
Nitrite (as N)	EPA 300.0	BLD120-MW6	07/22/09	N/A	89	89	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	BLD120-MW6	07/22/09	N/A	107	107	80-120	0	0-20	
Sulfate	EPA 300.0	BLD120-MW6	07/22/09	N/A	101	101	80-120	0	0-20	
Carbon, Total Organic	SM 5310 D	09-07-1852-3	07/23/09	N/A	93	91	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



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San Diego, CA 92127-2116

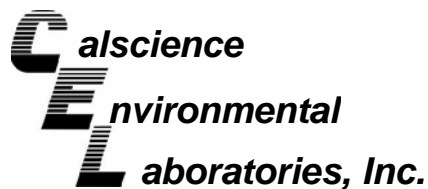
Date Received: N/A
Work Order No: 09-07-1828

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	09-07-1842-2	07/27/09	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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San Diego, CA 92127-2116

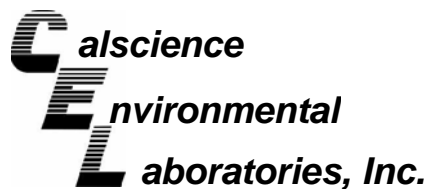
Date Received: N/A
Work Order No: 09-07-1828
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-207	Aqueous	GC 33	N/A	07/23/09	090723L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Ethane	93	93	80-120	0	0-20	
Methane	98	97	79-109	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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San Diego, CA 92127-2116

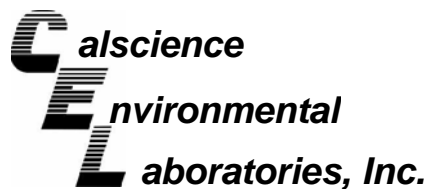
Date Received: N/A
Work Order No: 09-07-1828
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-308-1,146	Aqueous	GC 27	07/23/09	07/23/09	090723B04

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	99	98	75-117	2	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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San Diego, CA 92127-2116

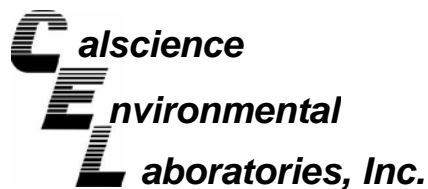
Date Received: N/A
Work Order No: 09-07-1828
Preparation: EPA 3520C
Method: EPA 8270C(M) Isotope Dilution

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-09-004-1,296	Aqueous	GC/MS GG	07/23/09	07/24/09	090723L05D

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
1,4-Dioxane	97	99	50-130	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

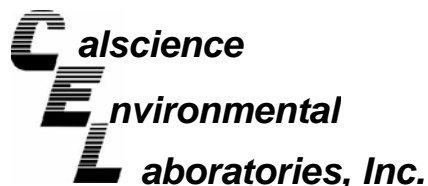
Date Received: N/A
Work Order No: 09-07-1828
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-210	Aqueous	HPLC 6	N/A	07/28/09	090728L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	112	112	80-120	0	0-20	
Butyric Acid	92	88	80-120	4	0-20	
Lactic Acid	102	104	80-120	1	0-20	
Propionic Acid	92	91	80-120	1	0-20	
Pyruvic Acid	104	105	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,237	Aqueous	GC/MS FF	07/24/09	07/24/09	090724L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	110	113	84-120	78-126	2	0-8	
Carbon Tetrachloride	116	119	63-147	49-161	2	0-10	
Chlorobenzene	108	108	89-119	84-124	0	0-7	
1,2-Dibromoethane	115	117	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	108	108	89-119	84-124	0	0-9	
1,1-Dichloroethene	98	98	77-125	69-133	0	0-16	
Ethylbenzene	112	111	80-120	73-127	1	0-20	
Toluene	105	107	83-125	76-132	1	0-9	
Trichloroethene	110	114	89-119	84-124	4	0-8	
Vinyl Chloride	87	85	63-135	51-147	3	0-13	
Methyl-t-Butyl Ether (MTBE)	102	107	82-118	76-124	4	0-13	
Tert-Butyl Alcohol (TBA)	103	105	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	113	113	81-123	74-130	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	110	111	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	109	112	76-124	68-132	3	0-10	
Ethanol	81	90	60-138	47-151	10	0-32	

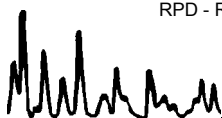
Total number of LCS compounds : 16

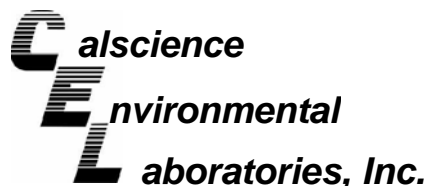
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,248	Aqueous	GC/MS FF	07/24/09	07/24/09	090724L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	106	108	84-120	78-126	2	0-8	
Carbon Tetrachloride	118	119	63-147	49-161	1	0-10	
Chlorobenzene	108	109	89-119	84-124	0	0-7	
1,2-Dibromoethane	112	114	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	107	106	89-119	84-124	0	0-9	
1,1-Dichloroethene	100	100	77-125	69-133	0	0-16	
Ethylbenzene	111	113	80-120	73-127	2	0-20	
Toluene	105	106	83-125	76-132	1	0-9	
Trichloroethene	125	126	89-119	84-124	0	0-8	X
Vinyl Chloride	84	84	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	105	106	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	109	106	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	111	113	81-123	74-130	2	0-11	
Ethyl-t-Butyl Ether (ETBE)	105	105	74-122	66-130	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	108	76-124	68-132	2	0-10	
Ethanol	86	105	60-138	47-151	19	0-32	

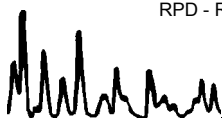
Total number of LCS compounds : 16

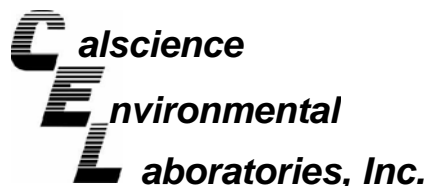
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-07-1828
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-30,251	Aqueous	GC/MS FF	07/27/09	07/27/09	090727L01		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	108	107	80-122	73-129	1	0-20	
Carbon Tetrachloride	109	112	68-140	56-152	3	0-20	
Chlorobenzene	101	104	80-120	73-127	3	0-20	
1,2-Dibromoethane	109	113	80-121	73-128	4	0-20	
1,2-Dichlorobenzene	102	103	80-120	73-127	1	0-20	
1,1-Dichloroethene	98	93	72-132	62-142	5	0-25	
Ethylbenzene	104	107	80-126	72-134	3	0-20	
Toluene	101	100	80-121	73-128	1	0-20	
Trichloroethene	110	107	80-123	73-130	2	0-20	
Vinyl Chloride	73	72	67-133	56-144	1	0-20	
Methyl-t-Butyl Ether (MTBE)	102	112	75-123	67-131	10	0-20	
Tert-Butyl Alcohol (TBA)	101	100	75-123	67-131	1	0-20	
Diisopropyl Ether (DIPE)	102	107	71-131	61-141	5	0-20	
Ethyl-t-Butyl Ether (ETBE)	111	115	76-124	68-132	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	115	116	80-123	73-130	1	0-20	
Ethanol	74	66	61-139	48-152	11	0-27	

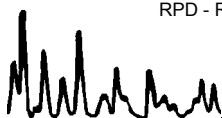
Total number of LCS compounds : 16

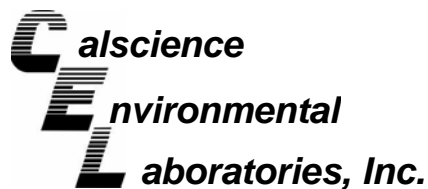
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:
Work Order No:

N/A
09-07-1828

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-355	N/A	07/22/09	104	104	90-110	0	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-355	N/A	07/22/09	95	95	90-110	0	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-355	N/A	07/22/09	108	108	90-110	0	0-15	
Sulfate	EPA 300.0	099-12-906-355	N/A	07/22/09	103	103	90-110	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: N/A
 Work Order No: 09-07-1828

Project: Teledyne Ryan

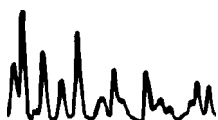
Matrix : Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Conc. Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 D	099-05-097-3,505	07/23/09	N/A	5.00	4.99	100	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 09-07-1828

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.



BLAINE

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY
BTS #
CLIENT Geosyntec
SITE Teledyne Ryan
2701 N. Harbor Drive
San Diego, CA

SAMPLE I.D.	DATE	TIME	MATRIX		TOTAL	CONTAINERS
			Soil	Water		
QCB-5	07-22-09	0630	W		2	
BID120-MW4		0750			5	
BID120-MW5		0845			5	
BID120-MW6		0955			12	
BID120-MW3		1056			12	
BID120-MW2		1230			12	
GCES-5		1400			3	

CONDUCT ANALYSIS TO DETECT							LAB	CalScience	DHS #
VOCs by 8260B	Ethene/Ethane/Methane (RSK 175)	SVOCs 8270 SIM Super	TPH (8015)	PCBs (1668A)	Metals (6010B/7470A)	1,4-Dioxane (Modified 8270)*			
X			X						
X		X	X			X			
X		X	X			X			
X		X	X			X			
X		X	X			X			
X		X	X			X			

SPECIAL INSTRUCTIONS
*Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
**EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
Brian Hitchens
Geosyntec: 10875 Rancho Bernardo Rd, suite 200
San Diego, CA 92127
(858) 674-6559

1828

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED	NO LATER THAN
07-22-09	07-22-09	1415	Chris Davis		
	07-22-09	1415	Chris Davis	CEL	7/22/09
	7/22/09	1630	Danny Lo	CEL	7/24/09
	7/22/09	1630	Danny Lo	CEL	7/24/09

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blaine Tech

DATE: 7/22/19

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 2.7 °C - 0.2°C (CF) = 2.5 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: [Signature]

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: [Signature]

Sample _____ No (Not Intact) Not Present Initial: PS

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOA⁵h VOAn₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

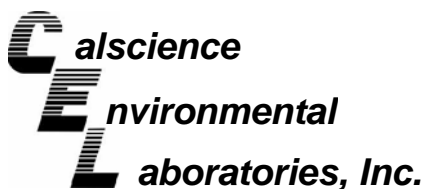
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs₂ 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz₂na 100PJ 100PJna₂ VOA_p _____ _____

Air: Tedlar® Summa® _____ **Other:** _____ **Checked/Labeled by:** PS

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** [Signature]

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z₂na: ZnAc₂+NaOH f: Field-filtered **Scanned by:** PS



April 20, 2009

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 09-04-0705**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/8/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak", written in a cursive style.

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: N/A
Method: RSK-175M
Units: ug/L

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	09-04-0705-1-D	04/08/09 09:22	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	9.25	1.00	1		Methane	7530	40.0	40	
Ethylene	787	8.00	8						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	09-04-0705-2-D	04/08/09 10:22	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	10200	40.0	40	
Ethylene	11.8	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD180-MW2	09-04-0705-3-D	04/08/09 11:24	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	5000	40.0	40	
Ethylene	2.44	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	09-04-0705-4-D	04/08/09 12:34	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	8940	40.0	40	
Ethylene	9.61	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	09-04-0705-5-D	04/08/09 13:29	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	5.35	1.00	1		Methane	8830	40.0	40	
Ethylene	156	1.00	1						

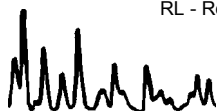
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FMY-MW1	09-04-0705-7-D	04/08/09 14:32	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	7590	40.0	40	
Ethylene	4.03	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-661-180	N/A	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/08/09
 Work Order No: 09-04-0705
 Preparation: N/A
 Method: HPLC/UV
 Units: mg/L

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	09-04-0705-1-H	04/08/09 09:22	Aqueous	HPLC 6	N/A	04/13/09 12:43	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	1900	100	100		Propionic Acid	78	10	10	
Butyric Acid	300	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	09-04-0705-2-H	04/08/09 10:22	Aqueous	HPLC 6	N/A	04/10/09 20:26	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	1400	40	40		Propionic Acid	18	1.0	1	
Butyric Acid	77	40	40		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD180-MW2	09-04-0705-3-H	04/08/09 11:24	Aqueous	HPLC 6	N/A	04/13/09 13:52	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	180	5.0	5		Propionic Acid	130	5.0	5	
Butyric Acid	22	5.0	5		Pyruvic Acid	ND	2.5	5	
Lactic Acid	ND	5.0	5						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	103	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	09-04-0705-4-H	04/08/09 12:34	Aqueous	HPLC 6	N/A	04/13/09 16:56	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	290	10	10		Propionic Acid	82	10	10	
Butyric Acid	ND	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/08/09
 Work Order No: 09-04-0705
 Preparation: N/A
 Method: HPLC/UV
 Units: mg/L

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	09-04-0705-5-H	04/08/09 13:29	Aqueous	HPLC 6	N/A	04/13/09 14:38	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	1200	40	40		Propionic Acid	49	40	40	
Butyric Acid	150	40	40		Pyruvic Acid	ND	20	40	
Lactic Acid	ND	40	40						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	101	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FMY-MW1	09-04-0705-7-H	04/08/09 14:32	Aqueous	HPLC 6	N/A	04/13/09 15:01	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	230	10	10		Propionic Acid	150	10	10	
Butyric Acid	ND	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	103	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-016-187	N/A	Aqueous	HPLC 6	N/A	04/10/09 15:28	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	1.0	1		Propionic Acid	ND	1.0	1	
Butyric Acid	ND	1.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	101	80-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

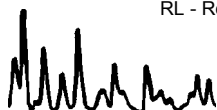
Project: Teledyne Ryan

Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	09-04-0705-1-B	04/08/09 09:22	Aqueous	GC/MS Z	04/10/09	04/11/09 05:01	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	500	10		1,3-Dichloropropane	ND	10	10	
Benzene	ND	5.0	10		2,2-Dichloropropane	ND	10	10	
Bromobenzene	ND	10	10		1,1-Dichloropropene	ND	10	10	
Bromochloromethane	ND	10	10		c-1,3-Dichloropropene	ND	5.0	10	
Bromodichloromethane	ND	10	10		t-1,3-Dichloropropene	ND	5.0	10	
Bromoform	ND	10	10		Ethylbenzene	ND	10	10	
Bromomethane	ND	100	10		2-Hexanone	ND	100	10	
2-Butanone	ND	100	10		Isopropylbenzene	ND	10	10	
n-Butylbenzene	ND	10	10		p-Isopropyltoluene	ND	10	10	
sec-Butylbenzene	ND	10	10		Methylene Chloride	ND	100	10	
tert-Butylbenzene	ND	10	10		4-Methyl-2-Pentanone	ND	100	10	
Carbon Disulfide	ND	100	10		Naphthalene	ND	100	10	
Carbon Tetrachloride	ND	5.0	10		n-Propylbenzene	ND	10	10	
Chlorobenzene	ND	10	10		Styrene	ND	10	10	
Chloroethane	ND	50	10		1,1,1,2-Tetrachloroethane	ND	10	10	
Chloroform	ND	10	10		1,1,2,2-Tetrachloroethane	ND	10	10	
Chloromethane	ND	100	10		Tetrachloroethene	ND	10	10	
2-Chlorotoluene	ND	10	10		Toluene	ND	10	10	
4-Chlorotoluene	ND	10	10		1,2,3-Trichlorobenzene	ND	10	10	
Dibromochloromethane	ND	10	10		1,2,4-Trichlorobenzene	ND	10	10	
1,2-Dibromo-3-Chloropropane	ND	50	10		1,1,1-Trichloroethane	ND	10	10	
1,2-Dibromoethane	ND	10	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10	
Dibromomethane	ND	10	10		1,1,2-Trichloroethane	ND	10	10	
1,2-Dichlorobenzene	ND	10	10		Trichloroethene	ND	10	10	
1,3-Dichlorobenzene	ND	10	10		Trichlorofluoromethane	ND	100	10	
1,4-Dichlorobenzene	ND	10	10		1,2,3-Trichloropropane	ND	50	10	
Dichlorodifluoromethane	ND	10	10		1,2,4-Trimethylbenzene	ND	10	10	
1,1-Dichloroethane	11	10	10		1,3,5-Trimethylbenzene	ND	10	10	
1,2-Dichloroethane	ND	5.0	10		Vinyl Acetate	ND	100	10	
1,1-Dichloroethene	ND	10	10		Vinyl Chloride	110	5.0	10	
c-1,2-Dichloroethene	1000	10	10		p/m-Xylene	ND	10	10	
t-1,2-Dichloroethene	24	10	10		o-Xylene	ND	10	10	
1,2-Dichloropropane	ND	10	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	113	82-130			1,2-Dichloroethane-d4	118	75-141		
Toluene-d8	106	83-113			1,4-Bromofluorobenzene	94	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/08/09
 Work Order No: 09-04-0705
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

Page 2 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	09-04-0705-2-B	04/08/09 10:22	Aqueous	GC/MS Z	04/10/09	04/11/09 05:30	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	0.61	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	0.78	0.50	1	
c-1,2-Dichloroethene	1.2	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	1.0	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	121	82-130			1,2-Dichloroethane-d4	123	75-141		
Toluene-d8	106	83-113			1,4-Bromofluorobenzene	93	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

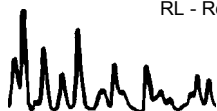
Project: Teledyne Ryan

Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD180-MW2	09-04-0705-3-B	04/08/09 11:24	Aqueous	GC/MS Z	04/10/09	04/11/09 05:59	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	1300	500	10		1,3-Dichloropropane	ND	10	10	
Benzene	ND	5.0	10		2,2-Dichloropropane	ND	10	10	
Bromobenzene	ND	10	10		1,1-Dichloropropene	ND	10	10	
Bromochloromethane	ND	10	10		c-1,3-Dichloropropene	ND	5.0	10	
Bromodichloromethane	ND	10	10		t-1,3-Dichloropropene	ND	5.0	10	
Bromoform	ND	10	10		Ethylbenzene	ND	10	10	
Bromomethane	ND	100	10		2-Hexanone	ND	100	10	
2-Butanone	ND	100	10		Isopropylbenzene	ND	10	10	
n-Butylbenzene	ND	10	10		p-Isopropyltoluene	ND	10	10	
sec-Butylbenzene	ND	10	10		Methylene Chloride	ND	100	10	
tert-Butylbenzene	ND	10	10		4-Methyl-2-Pentanone	ND	100	10	
Carbon Disulfide	ND	100	10		Naphthalene	ND	100	10	
Carbon Tetrachloride	ND	5.0	10		n-Propylbenzene	ND	10	10	
Chlorobenzene	ND	10	10		Styrene	ND	10	10	
Chloroethane	ND	50	10		1,1,1,2-Tetrachloroethane	ND	10	10	
Chloroform	ND	10	10		1,1,2,2-Tetrachloroethane	ND	10	10	
Chloromethane	ND	100	10		Tetrachloroethene	ND	10	10	
2-Chlorotoluene	ND	10	10		Toluene	ND	10	10	
4-Chlorotoluene	ND	10	10		1,2,3-Trichlorobenzene	ND	10	10	
Dibromochloromethane	ND	10	10		1,2,4-Trichlorobenzene	ND	10	10	
1,2-Dibromo-3-Chloropropane	ND	50	10		1,1,1-Trichloroethane	ND	10	10	
1,2-Dibromoethane	ND	10	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10	
Dibromomethane	ND	10	10		1,1,2-Trichloroethane	ND	10	10	
1,2-Dichlorobenzene	ND	10	10		Trichloroethene	ND	10	10	
1,3-Dichlorobenzene	ND	10	10		Trichlorofluoromethane	ND	100	10	
1,4-Dichlorobenzene	ND	10	10		1,2,3-Trichloropropane	ND	50	10	
Dichlorodifluoromethane	ND	10	10		1,2,4-Trimethylbenzene	ND	10	10	
1,1-Dichloroethane	ND	10	10		1,3,5-Trimethylbenzene	ND	10	10	
1,2-Dichloroethane	ND	5.0	10		Vinyl Acetate	ND	100	10	
1,1-Dichloroethene	ND	10	10		Vinyl Chloride	ND	5.0	10	
c-1,2-Dichloroethene	ND	10	10		p/m-Xylene	ND	10	10	
t-1,2-Dichloroethene	ND	10	10		o-Xylene	ND	10	10	
1,2-Dichloropropane	ND	10	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	119	82-130			1,2-Dichloroethane-d4	119	75-141		
Toluene-d8	103	83-113			1,4-Bromofluorobenzene	88	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

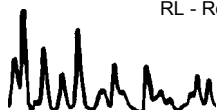
Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	09-04-0705-4-B	04/08/09 12:34	Aqueous	GC/MS Z	04/10/09	04/11/09 06:28	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	600	250	5		1,3-Dichloropropane	ND	5.0	5	
Benzene	ND	2.5	5		2,2-Dichloropropane	ND	5.0	5	
Bromobenzene	ND	5.0	5		1,1-Dichloropropene	ND	5.0	5	
Bromochloromethane	ND	5.0	5		c-1,3-Dichloropropene	ND	2.5	5	
Bromodichloromethane	ND	5.0	5		t-1,3-Dichloropropene	ND	2.5	5	
Bromoform	ND	5.0	5		Ethylbenzene	ND	5.0	5	
Bromomethane	ND	50	5		2-Hexanone	ND	50	5	
2-Butanone	ND	50	5		Isopropylbenzene	ND	5.0	5	
n-Butylbenzene	ND	5.0	5		p-Isopropyltoluene	ND	5.0	5	
sec-Butylbenzene	ND	5.0	5		Methylene Chloride	ND	50	5	
tert-Butylbenzene	ND	5.0	5		4-Methyl-2-Pentanone	ND	50	5	
Carbon Disulfide	ND	50	5		Naphthalene	ND	50	5	
Carbon Tetrachloride	ND	2.5	5		n-Propylbenzene	ND	5.0	5	
Chlorobenzene	ND	5.0	5		Styrene	ND	5.0	5	
Chloroethane	ND	25	5		1,1,1,2-Tetrachloroethane	ND	5.0	5	
Chloroform	ND	5.0	5		1,1,2,2-Tetrachloroethane	ND	5.0	5	
Chloromethane	ND	50	5		Tetrachloroethene	ND	5.0	5	
2-Chlorotoluene	ND	5.0	5		Toluene	ND	5.0	5	
4-Chlorotoluene	ND	5.0	5		1,2,3-Trichlorobenzene	ND	5.0	5	
Dibromochloromethane	ND	5.0	5		1,2,4-Trichlorobenzene	ND	5.0	5	
1,2-Dibromo-3-Chloropropane	ND	25	5		1,1,1-Trichloroethane	ND	5.0	5	
1,2-Dibromoethane	ND	5.0	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	5	
Dibromomethane	ND	5.0	5		1,1,2-Trichloroethane	ND	5.0	5	
1,2-Dichlorobenzene	ND	5.0	5		Trichloroethene	ND	5.0	5	
1,3-Dichlorobenzene	ND	5.0	5		Trichlorofluoromethane	ND	50	5	
1,4-Dichlorobenzene	ND	5.0	5		1,2,3-Trichloropropane	ND	25	5	
Dichlorodifluoromethane	ND	5.0	5		1,2,4-Trimethylbenzene	ND	5.0	5	
1,1-Dichloroethane	ND	5.0	5		1,3,5-Trimethylbenzene	ND	5.0	5	
1,2-Dichloroethane	ND	2.5	5		Vinyl Acetate	ND	50	5	
1,1-Dichloroethene	ND	5.0	5		Vinyl Chloride	3.3	2.5	5	
c-1,2-Dichloroethene	11	5.0	5		p/m-Xylene	ND	5.0	5	
t-1,2-Dichloroethene	ND	5.0	5		o-Xylene	ND	5.0	5	
1,2-Dichloropropane	ND	5.0	5		Methyl-t-Butyl Ether (MTBE)	ND	5.0	5	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	111	82-130			1,2-Dichloroethane-d4	121	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	89	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

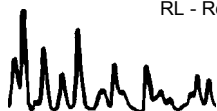
Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	09-04-0705-5-B	04/08/09 13:29	Aqueous	GC/MS Z	04/10/09	04/11/09 06:57	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	500	10		1,3-Dichloropropane	ND	10	10	
Benzene	ND	5.0	10		2,2-Dichloropropane	ND	10	10	
Bromobenzene	ND	10	10		1,1-Dichloropropene	ND	10	10	
Bromochloromethane	ND	10	10		c-1,3-Dichloropropene	ND	5.0	10	
Bromodichloromethane	ND	10	10		t-1,3-Dichloropropene	ND	5.0	10	
Bromoform	ND	10	10		Ethylbenzene	ND	10	10	
Bromomethane	ND	100	10		2-Hexanone	ND	100	10	
2-Butanone	ND	100	10		Isopropylbenzene	ND	10	10	
n-Butylbenzene	ND	10	10		p-Isopropyltoluene	ND	10	10	
sec-Butylbenzene	ND	10	10		Methylene Chloride	ND	100	10	
tert-Butylbenzene	ND	10	10		4-Methyl-2-Pentanone	ND	100	10	
Carbon Disulfide	ND	100	10		Naphthalene	ND	100	10	
Carbon Tetrachloride	ND	5.0	10		n-Propylbenzene	ND	10	10	
Chlorobenzene	ND	10	10		Styrene	ND	10	10	
Chloroethane	ND	50	10		1,1,1,2-Tetrachloroethane	ND	10	10	
Chloroform	ND	10	10		1,1,2,2-Tetrachloroethane	ND	10	10	
Chloromethane	ND	100	10		Tetrachloroethene	ND	10	10	
2-Chlorotoluene	ND	10	10		Toluene	ND	10	10	
4-Chlorotoluene	ND	10	10		1,2,3-Trichlorobenzene	ND	10	10	
Dibromochloromethane	ND	10	10		1,2,4-Trichlorobenzene	ND	10	10	
1,2-Dibromo-3-Chloropropane	ND	50	10		1,1,1-Trichloroethane	ND	10	10	
1,2-Dibromoethane	ND	10	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10	
Dibromomethane	ND	10	10		1,1,2-Trichloroethane	ND	10	10	
1,2-Dichlorobenzene	ND	10	10		Trichloroethene	ND	10	10	
1,3-Dichlorobenzene	ND	10	10		Trichlorofluoromethane	ND	100	10	
1,4-Dichlorobenzene	ND	10	10		1,2,3-Trichloropropane	ND	50	10	
Dichlorodifluoromethane	ND	10	10		1,2,4-Trimethylbenzene	ND	10	10	
1,1-Dichloroethane	15	10	10		1,3,5-Trimethylbenzene	ND	10	10	
1,2-Dichloroethane	ND	5.0	10		Vinyl Acetate	ND	100	10	
1,1-Dichloroethene	11	10	10		Vinyl Chloride	44	5.0	10	
c-1,2-Dichloroethene	1100	10	10		p/m-Xylene	ND	10	10	
t-1,2-Dichloroethene	14	10	10		o-Xylene	ND	10	10	
1,2-Dichloropropane	ND	10	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	114	75-141		
Toluene-d8	98	83-113			1,4-Bromofluorobenzene	88	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

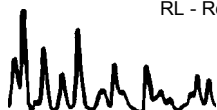
Project: Teledyne Ryan

Page 6 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-1	09-04-0705-6-B	04/08/09 13:45	Aqueous	GC/MS Z	04/10/09	04/11/09 07:26	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	120	82-130			1,2-Dichloroethane-d4	128	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	91	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

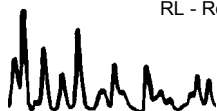
Project: Teledyne Ryan

Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FMY-MW1	09-04-0705-7-B	04/08/09 14:32	Aqueous	GC/MS Z	04/10/09	04/11/09 07:55	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	3400	1000	20		1,3-Dichloropropane	ND	20	20	
Benzene	ND	10	20		2,2-Dichloropropane	ND	20	20	
Bromobenzene	ND	20	20		1,1-Dichloropropene	ND	20	20	
Bromochloromethane	ND	20	20		c-1,3-Dichloropropene	ND	10	20	
Bromodichloromethane	ND	20	20		t-1,3-Dichloropropene	ND	10	20	
Bromoform	ND	20	20		Ethylbenzene	ND	20	20	
Bromomethane	ND	200	20		2-Hexanone	ND	200	20	
2-Butanone	ND	200	20		Isopropylbenzene	ND	20	20	
n-Butylbenzene	ND	20	20		p-Isopropyltoluene	ND	20	20	
sec-Butylbenzene	ND	20	20		Methylene Chloride	ND	200	20	
tert-Butylbenzene	ND	20	20		4-Methyl-2-Pentanone	ND	200	20	
Carbon Disulfide	ND	200	20		Naphthalene	ND	200	20	
Carbon Tetrachloride	ND	10	20		n-Propylbenzene	ND	20	20	
Chlorobenzene	ND	20	20		Styrene	ND	20	20	
Chloroethane	ND	100	20		1,1,1,2-Tetrachloroethane	ND	20	20	
Chloroform	ND	20	20		1,1,2,2-Tetrachloroethane	ND	20	20	
Chloromethane	ND	200	20		Tetrachloroethene	ND	20	20	
2-Chlorotoluene	ND	20	20		Toluene	ND	20	20	
4-Chlorotoluene	ND	20	20		1,2,3-Trichlorobenzene	ND	20	20	
Dibromochloromethane	ND	20	20		1,2,4-Trichlorobenzene	ND	20	20	
1,2-Dibromo-3-Chloropropane	ND	100	20		1,1,1-Trichloroethane	ND	20	20	
1,2-Dibromoethane	ND	20	20		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	200	20	
Dibromomethane	ND	20	20		1,1,2-Trichloroethane	ND	20	20	
1,2-Dichlorobenzene	ND	20	20		Trichloroethene	ND	20	20	
1,3-Dichlorobenzene	ND	20	20		Trichlorofluoromethane	ND	200	20	
1,4-Dichlorobenzene	ND	20	20		1,2,3-Trichloropropane	ND	100	20	
Dichlorodifluoromethane	ND	20	20		1,2,4-Trimethylbenzene	ND	20	20	
1,1-Dichloroethane	ND	20	20		1,3,5-Trimethylbenzene	ND	20	20	
1,2-Dichloroethane	ND	10	20		Vinyl Acetate	ND	200	20	
1,1-Dichloroethene	ND	20	20		Vinyl Chloride	ND	10	20	
c-1,2-Dichloroethene	ND	20	20		p/m-Xylene	ND	20	20	
t-1,2-Dichloroethene	ND	20	20		o-Xylene	ND	20	20	
1,2-Dichloropropane	ND	20	20		Methyl-t-Butyl Ether (MTBE)	ND	20	20	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	114	82-130			1,2-Dichloroethane-d4	116	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	88	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

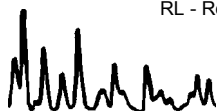
Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-1	09-04-0705-8-A	04/08/09 08:00	Aqueous	GC/MS Z	04/10/09	04/11/09 08:24	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	112	82-130			1,2-Dichloroethane-d4	123	75-141		
Toluene-d8	93	83-113			1,4-Bromofluorobenzene	88	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/08/09
 Work Order No: 09-04-0705
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

Page 9 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,122	N/A	Aqueous	GC/MS Z	04/10/09	04/11/09 00:39	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	119	82-130			1,2-Dichloroethane-d4	122	75-141		
Toluene-d8	103	83-113			1,4-Bromofluorobenzene	92	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/08/09
 Work Order No: 09-04-0705

Project: Teledyne Ryan

Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW1	09-04-0705-1	04/08/09	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	330	10	10		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	0.34	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	2.7	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.50	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	1100	100	200		mg/L	N/A	04/08/09	SM 5310 D

BLD120-MW7	09-04-0705-2	04/08/09	Aqueous
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Comment(s): (3) The reporting limit is elevated resulting from matrix interference.


Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	780	20	20		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate (3)	2.4	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.40	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	740	25	50		mg/L	N/A	04/08/09	SM 5310 D

BLD180-MW2	09-04-0705-3	04/08/09	Aqueous
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Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	680	20	20		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate (3)	2.9	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.80	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	280	25	50		mg/L	N/A	04/08/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705

Project: Teledyne Ryan

Page 2 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW8	09-04-0705-4	04/08/09	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	130	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	2.2	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.30	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	210	10	20		mg/L	N/A	04/08/09	SM 5310 D

BLD120-MW9	09-04-0705-5	04/08/09	Aqueous
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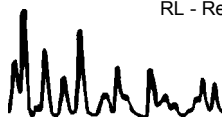
Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	210	5.0	5		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	0.13	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	2.4	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.50	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	660	25	50		mg/L	N/A	04/08/09	SM 5310 D

FMY-MW1	09-04-0705-7	04/08/09	Aqueous
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Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	480	10	10		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate (3)	2.6	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	3.8	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	310	25	50		mg/L	N/A	04/08/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/08/09
 Work Order No: 09-04-0705

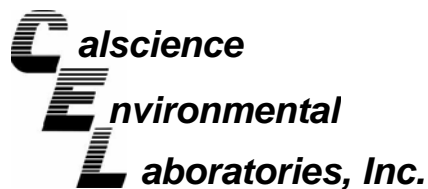
Project: Teledyne Ryan

Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Chloride	ND	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	04/08/09	SM 5310 D
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	04/08/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

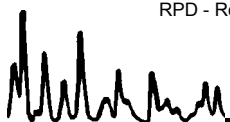
Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: N/A
Method: HPLC/UV

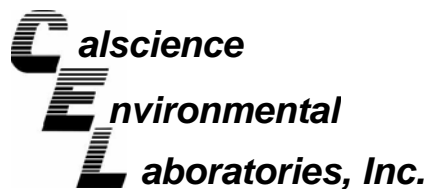
Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-04-0404-1	Aqueous	HPLC 6	N/A	04/10/09	090410S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	110	110	70-130	0	0-30	
Butyric Acid	96	99	70-130	3	0-30	
Lactic Acid	98	98	70-130	0	0-30	
Propionic Acid	98	101	70-130	3	0-30	
Pyruvic Acid	105	111	70-130	6	0-30	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

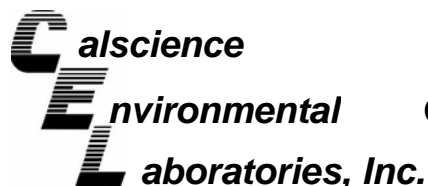
Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-04-0518-3	Aqueous	GC/MS Z	04/10/09	04/11/09	090410S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	98	88-118	5	0-7	
Carbon Tetrachloride	93	93	67-145	0	0-11	
Chlorobenzene	84	90	88-118	8	0-7	3,4
1,2-Dibromoethane	100	101	70-130	1	0-30	
1,2-Dichlorobenzene	94	95	86-116	1	0-8	
1,1-Dichloroethene	87	91	70-130	4	0-25	
Ethylbenzene	94	98	70-130	4	0-30	
Toluene	97	98	87-123	2	0-8	
Trichloroethene	73	76	79-127	2	0-10	3
Vinyl Chloride	91	98	69-129	7	0-13	
Methyl-t-Butyl Ether (MTBE)	98	107	71-131	9	0-13	
Tert-Butyl Alcohol (TBA)	105	99	36-168	5	0-45	
Diisopropyl Ether (DIPE)	95	103	81-123	8	0-9	
Ethyl-t-Butyl Ether (ETBE)	91	102	72-126	11	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	110	72-126	6	0-12	
Ethanol	102	107	53-149	5	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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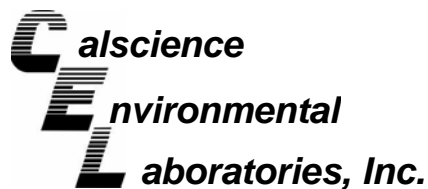
Date Received: N/A
Work Order No: 09-04-0705

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	09-04-0706-1	04/09/09	N/A	104	105	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	09-04-0706-1	04/09/09	N/A	91	91	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	09-04-0706-1	04/09/09	N/A	103	103	80-120	0	0-20	
Sulfate	EPA 300.0	09-04-0706-1	04/09/09	N/A	107	108	80-120	0	0-20	
Carbon, Total Organic	SM 5310 D	09-04-0585-1	04/08/09	N/A	105	106	70-130	0	0-25	
Carbon, Total Organic	SM 5310 D	BLD120-MW9	04/08/09	N/A	106	114	70-130	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



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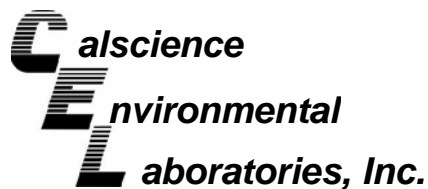
Date Received: N/A
Work Order No: 09-04-0705

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	09-04-0645-1	04/13/09	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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San Diego, CA 92127-2116

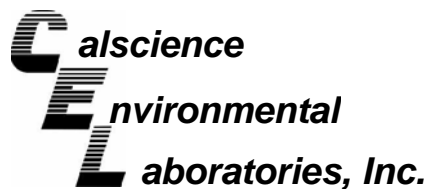
Date Received: N/A
Work Order No: 09-04-0705
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-180	Aqueous	GC 33	N/A	04/09/09	090409L02

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	96	94	80-120	2	0-20	
Methane	101	98	79-109	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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San Diego, CA 92127-2116

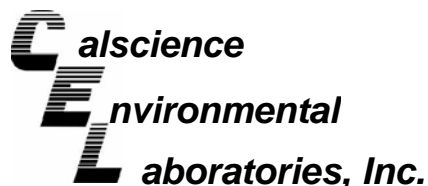
Date Received: N/A
Work Order No: 09-04-0705
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-187	Aqueous	HPLC 6	N/A	04/10/09	090410L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Acetic Acid	106	110	80-120	4	0-20	
Butyric Acid	101	98	80-120	3	0-20	
Lactic Acid	103	102	80-120	1	0-20	
Propionic Acid	101	101	80-120	1	0-20	
Pyruvic Acid	95	96	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-29,122	Aqueous	GC/MS Z	04/10/09	04/10/09	090410L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	102	84-120	78-126	2	0-8	
Carbon Tetrachloride	105	106	63-147	49-161	1	0-10	
Chlorobenzene	94	98	89-119	84-124	5	0-7	
1,2-Dibromoethane	104	106	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	100	101	89-119	84-124	0	0-9	
1,1-Dichloroethene	99	105	77-125	69-133	5	0-16	
Ethylbenzene	101	107	80-120	73-127	5	0-20	
Toluene	101	102	83-125	76-132	1	0-9	
Trichloroethene	116	117	89-119	84-124	1	0-8	
Vinyl Chloride	108	109	63-135	51-147	0	0-13	
Methyl-t-Butyl Ether (MTBE)	99	99	82-118	76-124	0	0-13	
Tert-Butyl Alcohol (TBA)	96	98	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	98	99	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	97	100	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	106	76-124	68-132	1	0-10	
Ethanol	95	99	60-138	47-151	4	0-32	

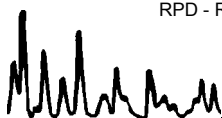
Total number of LCS compounds : 16

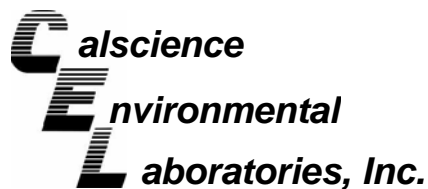
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:
Work Order No:

N/A
09-04-0705

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-116	N/A	04/09/09	109	109	90-110	0	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-116	N/A	04/09/09	94	94	90-110	1	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-116	N/A	04/09/09	108	108	90-110	0	0-15	
Sulfate	EPA 300.0	099-12-906-116	N/A	04/09/09	106	106	90-110	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received:
 Work Order No:

N/A
 09-04-0705

Project: Teledyne Ryan

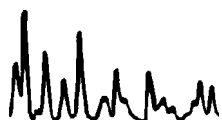
Matrix : Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> <u>Sample ID</u>	<u>Date</u> <u>Analyzed</u>	<u>Date</u> <u>Extracted</u>	<u>Conc.</u> <u>Added</u>	<u>Conc.</u> <u>Recovered</u>	<u>LCS</u> <u>%Rec</u>	<u>%Rec.</u> <u>CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 D	099-05-097-3,363	04/08/09	N/A	5.00	5.53	111	80-120	
Carbon, Total Organic	SM 5310 D	099-05-097-3,372	04/08/09	N/A	5.00	5.48	110	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 09-04-0705

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



0705

BLAINE
 1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY
 CLIENT: Geosyntec
 SITE: Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

LAB: CalScience
 SPECIAL INSTRUCTIONS
 *Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
 **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
 Brian Hitchens
 Geosyntec: 10875 Rancho Bernardo Rd, suite 200
 San Diego, CA 92127
 (858) 674-6559

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	CONDUCT ANALYSIS TO DETECT							DHS #			
					VOCs by 8260B	Ethene/Ethane/Methane (RSK 175)	SVOCs 8270 SIM Super	TPH (8015)	PCBs (1668A)	Metals (6010B/7470A)	1,4-Dioxane (Modified 8270)*		EISB Sampling Suite*	Total Chromium/Hexavalent Chromium	
1 BLD130-MW1	04-08-09	0922	W	10	various	X	X	X	X	X	X				
2 BLD130-MW7	1022					X	X	X	X	X	X				
3 BLD130-MW2	1124					X	X	X	X	X	X				
4 BLD130-MW8	1234					X	X	X	X	X	X				
5 BLD130-MW9	1329					X	X	X	X	X	X				
6 CEB-1	1345			3	VOA	X									
7 FMK-MW1	1432			10	various	X	X	X	X	X	X				
8 TB-1	0800			2	VOA	X									

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED	NO LATER THAN
04-08-09	04-08-09	1435	Chris Davids		
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Chris Davids	04-08-09	1453	[Signature]	4/8/9	1453
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[Signature]	4/8/9	1651	[Signature]	4/8/09	1651
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[Signature]	4/8/9	1651	[Signature]	4/8/09	1651

SHIPPED VIA: DATE SENT: TIME SENT: COOLER #:

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blaine Tech

DATE: 4/8/19

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 3.3 °C - 0.2°C (CF) = 3.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: [Signature]

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: [Signature]

Sample _____ No (Not Intact) Not Present Initial: _____

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOA⁵h VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

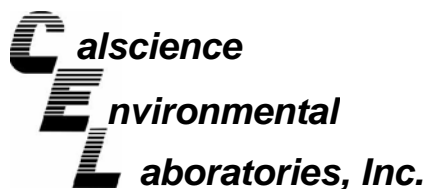
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz₂na 100PBsterile 100PBna₂ VOA₂p _____ _____

Air: Tedlar® Summa® _____ **Sludge/Other:** _____ **Checked/Labeled by:** T.N

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) **Reviewed by:** [Signature]

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ zna: ZnAc₂+NaOH **Scanned by:** T.N



April 20, 2009

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 09-04-0845**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/9/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: N/A
 Method: RSK-175M
 Units: ug/L

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	09-04-0845-1-D	04/09/09 07:27	Aqueous	GC 33	N/A	04/10/09 00:00	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	1.37	1.00	1		Methane	4130	20.0	20	
Ethylene	770	20.0	20						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	09-04-0845-2-D	04/09/09 06:49	Aqueous	GC 33	N/A	04/10/09 00:00	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	4.05	1.00	1		Methane	6490	20.0	20	
Ethylene	100	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	09-04-0845-3-D	04/09/09 08:21	Aqueous	GC 33	N/A	04/10/09 00:00	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	1.66	1.00	1		Methane	7220	40.0	40	
Ethylene	128	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-661-181	N/A	Aqueous	GC 33	N/A	04/10/09 00:00	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: N/A
 Method: HPLC/UV
 Units: mg/L

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	09-04-0845-1-F	04/09/09 07:27	Aqueous	HPLC 6	N/A	04/13/09 15:24	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	2100	100	100		Propionic Acid	42	10	10	
Butyric Acid	180	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	09-04-0845-2-F	04/09/09 06:49	Aqueous	HPLC 6	N/A	04/13/09 16:10	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	2600	100	100		Propionic Acid	290	10	10	
Butyric Acid	300	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	09-04-0845-3-F	04/09/09 08:21	Aqueous	HPLC 6	N/A	04/13/09 16:33	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	180	10	10		Propionic Acid	ND	10	10	
Butyric Acid	ND	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-016-187	N/A	Aqueous	HPLC 6	N/A	04/10/09 15:28	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	1.0	1		Propionic Acid	ND	1.0	1	
Butyric Acid	ND	1.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	101	80-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/09/09
Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

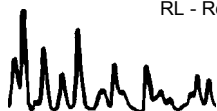
Project: Teledyne Ryan

Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	09-04-0845-1-A	04/09/09 07:27	Aqueous	GC/MS Q	04/11/09	04/12/09 05:09	090411L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	500	10		1,3-Dichloropropane	ND	10	10	
Benzene	ND	5.0	10		2,2-Dichloropropane	ND	10	10	
Bromobenzene	ND	10	10		1,1-Dichloropropene	ND	10	10	
Bromochloromethane	ND	10	10		c-1,3-Dichloropropene	ND	5.0	10	
Bromodichloromethane	ND	10	10		t-1,3-Dichloropropene	ND	5.0	10	
Bromoform	ND	10	10		Ethylbenzene	ND	10	10	
Bromomethane	ND	100	10		2-Hexanone	ND	100	10	
2-Butanone	ND	100	10		Isopropylbenzene	ND	10	10	
n-Butylbenzene	ND	10	10		p-Isopropyltoluene	ND	10	10	
sec-Butylbenzene	ND	10	10		Methylene Chloride	ND	100	10	
tert-Butylbenzene	ND	10	10		4-Methyl-2-Pentanone	ND	100	10	
Carbon Disulfide	ND	100	10		Naphthalene	ND	100	10	
Carbon Tetrachloride	ND	5.0	10		n-Propylbenzene	ND	10	10	
Chlorobenzene	ND	10	10		Styrene	ND	10	10	
Chloroethane	ND	50	10		1,1,1,2-Tetrachloroethane	ND	10	10	
Chloroform	ND	10	10		1,1,2,2-Tetrachloroethane	ND	10	10	
Chloromethane	ND	100	10		Tetrachloroethene	1800	10	10	
2-Chlorotoluene	ND	10	10		Toluene	ND	10	10	
4-Chlorotoluene	ND	10	10		1,2,3-Trichlorobenzene	ND	10	10	
Dibromochloromethane	ND	10	10		1,2,4-Trichlorobenzene	ND	10	10	
1,2-Dibromo-3-Chloropropane	ND	50	10		1,1,1-Trichloroethane	ND	10	10	
1,2-Dibromoethane	ND	10	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10	
Dibromomethane	ND	10	10		1,1,2-Trichloroethane	ND	10	10	
1,2-Dichlorobenzene	ND	10	10		Trichloroethene	620	10	10	
1,3-Dichlorobenzene	ND	10	10		Trichlorofluoromethane	ND	100	10	
1,4-Dichlorobenzene	ND	10	10		1,2,3-Trichloropropane	ND	50	10	
Dichlorodifluoromethane	ND	10	10		1,2,4-Trimethylbenzene	ND	10	10	
1,1-Dichloroethane	ND	10	10		1,3,5-Trimethylbenzene	ND	10	10	
1,2-Dichloroethane	ND	5.0	10		Vinyl Acetate	ND	100	10	
1,1-Dichloroethene	10	10	10		Vinyl Chloride	1500	5.0	10	
c-1,2-Dichloroethene	3300	50	50		p/m-Xylene	ND	10	10	
t-1,2-Dichloroethene	47	10	10		o-Xylene	ND	10	10	
1,2-Dichloropropane	ND	10	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	101	82-130			1,2-Dichloroethane-d4	101	75-141		
Toluene-d8	98	83-113			1,4-Bromofluorobenzene	97	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

Page 2 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	09-04-0845-2-A	04/09/09 06:49	Aqueous	GC/MS Q	04/11/09	04/12/09 05:39	090411L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	500	10		1,3-Dichloropropane	ND	10	10	
Benzene	ND	5.0	10		2,2-Dichloropropane	ND	10	10	
Bromobenzene	ND	10	10		1,1-Dichloropropene	ND	10	10	
Bromochloromethane	ND	10	10		c-1,3-Dichloropropene	ND	5.0	10	
Bromodichloromethane	ND	10	10		t-1,3-Dichloropropene	ND	5.0	10	
Bromoform	ND	10	10		Ethylbenzene	ND	10	10	
Bromomethane	ND	100	10		2-Hexanone	ND	100	10	
2-Butanone	ND	100	10		Isopropylbenzene	ND	10	10	
n-Butylbenzene	ND	10	10		p-Isopropyltoluene	ND	10	10	
sec-Butylbenzene	ND	10	10		Methylene Chloride	ND	100	10	
tert-Butylbenzene	ND	10	10		4-Methyl-2-Pentanone	ND	100	10	
Carbon Disulfide	ND	100	10		Naphthalene	ND	100	10	
Carbon Tetrachloride	ND	5.0	10		n-Propylbenzene	ND	10	10	
Chlorobenzene	ND	10	10		Styrene	ND	10	10	
Chloroethane	ND	50	10		1,1,1,2-Tetrachloroethane	ND	10	10	
Chloroform	ND	10	10		1,1,2,2-Tetrachloroethane	ND	10	10	
Chloromethane	ND	100	10		Tetrachloroethene	38	10	10	
2-Chlorotoluene	ND	10	10		Toluene	ND	10	10	
4-Chlorotoluene	ND	10	10		1,2,3-Trichlorobenzene	ND	10	10	
Dibromochloromethane	ND	10	10		1,2,4-Trichlorobenzene	ND	10	10	
1,2-Dibromo-3-Chloropropane	ND	50	10		1,1,1-Trichloroethane	ND	10	10	
1,2-Dibromoethane	ND	10	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10	
Dibromomethane	ND	10	10		1,1,2-Trichloroethane	ND	10	10	
1,2-Dichlorobenzene	ND	10	10		Trichloroethene	11	10	10	
1,3-Dichlorobenzene	ND	10	10		Trichlorofluoromethane	ND	100	10	
1,4-Dichlorobenzene	ND	10	10		1,2,3-Trichloropropane	ND	50	10	
Dichlorodifluoromethane	ND	10	10		1,2,4-Trimethylbenzene	ND	10	10	
1,1-Dichloroethane	ND	10	10		1,3,5-Trimethylbenzene	ND	10	10	
1,2-Dichloroethane	ND	5.0	10		Vinyl Acetate	ND	100	10	
1,1-Dichloroethene	ND	10	10		Vinyl Chloride	18	5.0	10	
c-1,2-Dichloroethene	620	10	10		p/m-Xylene	ND	10	10	
t-1,2-Dichloroethene	16	10	10		o-Xylene	ND	10	10	
1,2-Dichloropropane	ND	10	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	100	82-130			1,2-Dichloroethane-d4	101	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	97	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

Page 3 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	09-04-0845-3-B	04/09/09 08:21	Aqueous	GC/MS Q	04/13/09	04/14/09 05:28	090413L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	2.5	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	1.7	0.50	1	
c-1,2-Dichloroethene	5.7	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	1.2	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	92	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	96	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

Page 4 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-2	09-04-0845-4-A	04/09/09 08:45	Aqueous	GC/MS Q	04/11/09	04/12/09 06:38	090411L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	82-130			1,2-Dichloroethane-d4	109	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	97	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/09/09
Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

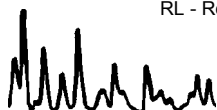
Project: Teledyne Ryan

Page 5 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-2	09-04-0845-5-A	04/09/09 06:00	Aqueous	GC/MS Q	04/11/09	04/12/09 07:08	090411L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	100	82-130			1,2-Dichloroethane-d4	107	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	97	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

Page 6 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,124	N/A	Aqueous	GC/MS Q	04/11/09	04/12/09 04:39	090411L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	82-130			1,2-Dichloroethane-d4	106	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	98	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

Page 7 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,135	N/A	Aqueous	GC/MS Q	04/13/09	04/14/09 04:58	090413L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	98	82-130			1,2-Dichloroethane-d4	90	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	96	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW2	09-04-0845-1	04/09/09	Aqueous

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	210	10	10		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate (3)	2.5	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.30	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	1100	100	200		mg/L	N/A	04/10/09	SM 5310 D

BLD120-MW3	09-04-0845-2	04/09/09	Aqueous
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Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	450	10	10		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate (3)	3.0	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.80	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	1700	100	200		mg/L	N/A	04/10/09	SM 5310 D

BLD120-MW6	09-04-0845-3	04/09/09	Aqueous
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Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	240	10	10		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	2.7	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	1.3	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	100	25	50		mg/L	N/A	04/10/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/09/09
Work Order No: 09-04-0845

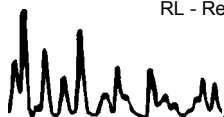
Project: Teledyne Ryan

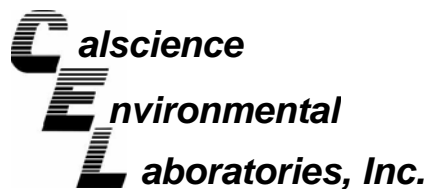
Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Chloride	ND	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	04/10/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

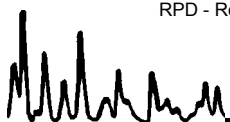
Date Received: 04/09/09
Work Order No: 09-04-0845
Preparation: N/A
Method: HPLC/UV

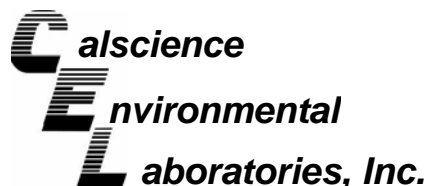
Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-04-0404-1	Aqueous	HPLC 6	N/A	04/10/09	090410S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	110	110	70-130	0	0-30	
Butyric Acid	96	99	70-130	3	0-30	
Lactic Acid	98	98	70-130	0	0-30	
Propionic Acid	98	101	70-130	3	0-30	
Pyruvic Acid	105	111	70-130	6	0-30	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

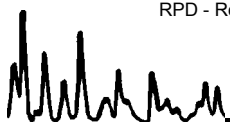
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Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B

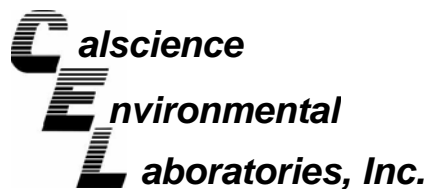
Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-04-0852-1	Aqueous	GC/MS Q	04/11/09	04/11/09	090411S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	95	95	88-118	0	0-7	
Toluene	98	97	87-123	0	0-8	
Ethylbenzene	97	97	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	96	95	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	101	98	36-168	1	0-45	
Diisopropyl Ether (DIPE)	105	103	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	101	99	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	96	72-126	2	0-12	
Ethanol	84	90	53-149	7	0-31	
1,1-Dichloroethene	101	97	70-130	4	0-25	
1,2-Dibromoethane	99	99	70-130	0	0-30	
1,2-Dichlorobenzene	95	97	86-116	2	0-8	
Carbon Tetrachloride	99	97	67-145	3	0-11	
Chlorobenzene	99	98	88-118	1	0-7	
Trichloroethene	94	94	79-127	0	0-10	
Vinyl Chloride	97	95	69-129	3	0-13	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

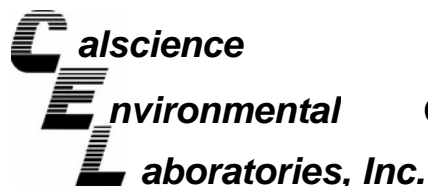
Date Received: 04/09/09
Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD120-MW6	Aqueous	GC/MS Q	04/13/09	04/14/09	090413S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	103	88-118	1	0-7	
Carbon Tetrachloride	87	91	67-145	5	0-11	
Chlorobenzene	103	101	88-118	1	0-7	
1,2-Dibromoethane	99	98	70-130	1	0-30	
1,2-Dichlorobenzene	97	96	86-116	1	0-8	
1,1-Dichloroethene	98	103	70-130	5	0-25	
Ethylbenzene	98	99	70-130	1	0-30	
Toluene	103	104	87-123	1	0-8	
Trichloroethene	98	99	79-127	1	0-10	
Vinyl Chloride	93	99	69-129	6	0-13	
Methyl-t-Butyl Ether (MTBE)	88	88	71-131	0	0-13	
Tert-Butyl Alcohol (TBA)	88	84	36-168	5	0-45	
Diisopropyl Ether (DIPE)	92	95	81-123	3	0-9	
Ethyl-t-Butyl Ether (ETBE)	84	85	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	82	82	72-126	1	0-12	
Ethanol	86	84	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

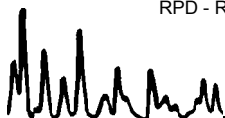
Date Received: N/A
Work Order No: 09-04-0845

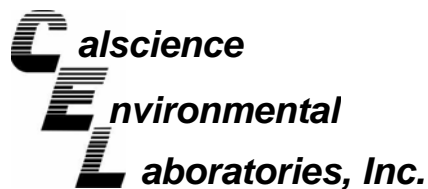
Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	09-04-0816-1	04/09/09	N/A	109	110	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	09-04-0816-1	04/09/09	N/A	106	106	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	09-04-0816-1	04/09/09	N/A	107	106	80-120	0	0-20	
Sulfate	EPA 300.0	09-04-0816-1	04/09/09	N/A	105	105	80-120	0	0-20	
Carbon, Total Organic	SM 5310 D	09-04-0871-2	04/10/09	N/A	102	100	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

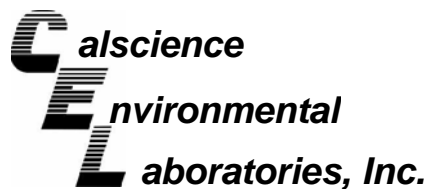
Date Received: N/A
Work Order No: 09-04-0845

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	09-04-0726-1	04/13/09	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

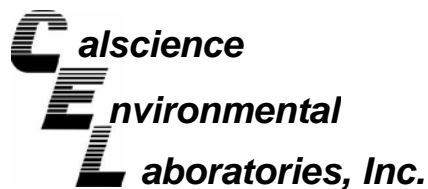
Date Received: N/A
Work Order No: 09-04-0845
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-181	Aqueous	GC 33	N/A	04/10/09	090410L02

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	96	96	80-120	0	0-20	
Methane	100	100	79-109	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

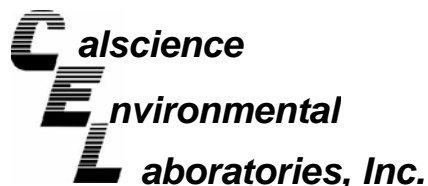
Date Received: N/A
Work Order No: 09-04-0845
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-187	Aqueous	HPLC 6	N/A	04/10/09	090410L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Acetic Acid	106	110	80-120	4	0-20	
Butyric Acid	101	98	80-120	3	0-20	
Lactic Acid	103	102	80-120	1	0-20	
Propionic Acid	101	101	80-120	1	0-20	
Pyruvic Acid	95	96	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-29,124	Aqueous	GC/MS Q	04/11/09	04/12/09	090411L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	101	100	84-120	78-126	1	0-8	
Carbon Tetrachloride	101	101	63-147	49-161	1	0-10	
Chlorobenzene	103	100	89-119	84-124	3	0-7	
1,2-Dibromoethane	100	100	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	100	96	89-119	84-124	3	0-9	
1,1-Dichloroethene	107	105	77-125	69-133	1	0-16	
Ethylbenzene	101	99	80-120	73-127	2	0-20	
Toluene	101	101	83-125	76-132	0	0-9	
Trichloroethene	104	103	89-119	84-124	1	0-8	
Vinyl Chloride	102	101	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	98	97	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	87	90	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	105	105	81-123	74-130	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	99	100	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	96	76-124	68-132	0	0-10	
Ethanol	86	82	60-138	47-151	4	0-32	

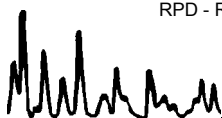
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-29,135	Aqueous	GC/MS Q	04/13/09	04/14/09	090413L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	99	100	84-120	78-126	1	0-8	
Carbon Tetrachloride	86	88	63-147	49-161	2	0-10	
Chlorobenzene	103	103	89-119	84-124	0	0-7	
1,2-Dibromoethane	98	97	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	99	99	89-119	84-124	0	0-9	
1,1-Dichloroethene	89	91	77-125	69-133	2	0-16	
Ethylbenzene	99	100	80-120	73-127	2	0-20	
Toluene	101	102	83-125	76-132	0	0-9	
Trichloroethene	103	105	89-119	84-124	2	0-8	
Vinyl Chloride	84	88	63-135	51-147	5	0-13	
Methyl-t-Butyl Ether (MTBE)	80	79	82-118	76-124	1	0-13	ME
Tert-Butyl Alcohol (TBA)	85	83	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	90	89	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	83	81	74-122	66-130	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	82	81	76-124	68-132	1	0-10	
Ethanol	79	77	60-138	47-151	3	0-32	

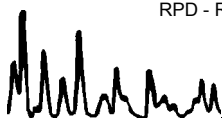
Total number of LCS compounds : 16

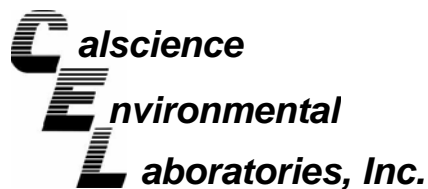
Total number of ME compounds : 1

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:
Work Order No:

N/A
09-04-0845

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-119	N/A	04/09/09	106	107	90-110	1	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-119	N/A	04/09/09	104	105	90-110	1	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-119	N/A	04/09/09	104	105	90-110	1	0-15	
Sulfate	EPA 300.0	099-12-906-119	N/A	04/09/09	103	103	90-110	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received:
 Work Order No:

N/A
 09-04-0845

Project: Teledyne Ryan

Matrix : Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> <u>Sample ID</u>	<u>Date</u> <u>Analyzed</u>	<u>Date</u> <u>Extracted</u>	<u>Conc.</u> <u>Added</u>	<u>Conc.</u> <u>Recovered</u>	<u>LCS</u> <u>%Rec</u>	<u>%Rec.</u> <u>CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 D	099-05-097-3,370	04/10/09	N/A	5.00	5.28	106	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 09-04-0845

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



BLAINE

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY
 CLIENT: Geosyntec
 SITE: Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

BTS #

Geosyntec

Teledyne Ryan

2701 N. Harbor Drive

San Diego, CA

SAMPLE I.D.	DATE	TIME	CONTAINERS	
			MATRIX	TOTAL
BLD120-MNW2	04-09-09	0727	W	10
BLD120-MNW3		0649		↓
BLD120-MNW6		0821		↓
QCEB-2		0845		3
TBS-2		0600		2

LAB: CalScience
 SPECIAL INSTRUCTIONS
 *Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
 **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
 Brian Hitchens
 Geosyntec: 10875 Rancho Bernardo Rd, suite 200
 San Diego, CA 92127
 (858) 674-6559

0845

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			1
			2
			3
			4
			5

CONDUCT ANALYSIS TO DETECT	
VOCs by 8260B	X
Ethene/Ethane/Methane (RSK 175)	X
SVOCs 8270 SIM Super	
TPH (8015)	
PCBs (1668A)	
Metals (6010B/7470A)	
1,4-Dioxane (Modified 8270)*	X
EISB Sampling Suite**	X
Total Chromium/Hexavalent Chromium	

LAB: CalScience
 DHS #

RESULTS NEEDED
 NO LATER THAN

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	04-09-09	1245	Chris Davis

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Chris Davis	04-09-09	1407	CEL	4/9/09	1407
CEL	4/9/09	1620	CEL	4/9/09	1620

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

1071

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blanco Tech

DATE: 4/19/19

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.2 °C (CF) = 2.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: [Signature]

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: [Signature]

Sample _____ No (Not Intact) Not Present Initial: BT

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA² VOA^h VOANa₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz₂na 100PBsterile 100PBna₂ _____ _____ _____

Air: Tedlar® Summa® _____ **Sludge/Other:** _____ **Checked/Labeled by:** BT

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) **Reviewed by:** YL

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z₂na: ZnAc₂+NaOH **Scanned by:** BT

August 18, 2009

Service Request No: E0900543

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road
Suite 200
San Diego, CA 92127

Laboratory Results for: TDY/SC0307

Dear Brian:

Enclosed are the results of the sample(s) submitted to our laboratory on July 23, 2009. For your reference, these analyses have been assigned our service request number **E0900543**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided.

All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance to the NELAC 2003 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2957. You may also contact me via email at JFreemyer@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Jane Freemyer
Project Manager; GC/HRMS

Page 1 of _____

For a specific list of NELAP-accredited analytes, refer to the certifications section at

www.caslab.com.





Certificate of Analysis

19408 Park Row, Suite 320, Houston, TX 77084

Phone (713)266-1599 Fax (713)266-0130

www.caslab.com

An Employee Owned Company

COLUMBIA ANALYTICAL SERVICES, INC

Client: GeoSyntec Consultants
Project: TDY SC0307
Sample Matrix: Water

SR No.: E0900543
Date Received: 07/23/09

CASE NARRATIVE – METHOD 1668A

All analyses were performed in adherence to the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Six water samples were received for analysis at Columbia Analytical Services on 07/23/09. All samples were filtered through a 0.1 micron filter, as requested.

The samples were received at 0°C in good condition and are consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Method Blank

One compound, PCB-11, was detected above the MRL in the method blank. PCB-11 has been a known contaminant in our laboratory air for approximately one month. It is known that PCB-11 has never been manufactured in the United States and it is not a target compound in our LCS/DLCS or labeled standards. Our Quality Assurance Manager continues to investigate the source of the PCB-11 contamination, under a major NCAR. All other compounds detected in the method blank were detected below the associated MRL.

Y flags – Labeled Standards

Samples that had recoveries of labeled standards outside the acceptance limits are flagged with 'Y' flags on the Form 2s. In all cases, the signal-to-noise ratios are greater than 10:1, making these data acceptable.

Approved by _____ **Date** 08/20/09

Xiangqiu Liang, Laboratory Director

MS/DMS

EQ0900286: Laboratory Control Spike /Laboratory Control Spike Duplicate (LCS/LCSD) samples were analyzed and reported in lieu of an MS/MSD for this extraction batch.

MRL

One sample, B120-MW2, required a dilution due to the presence of elevated levels of target analytes. The undiluted and diluted results were combined into one Form 3 summary report for each sample. This reports a 'Total' result that includes the most appropriate concentrations found for the associated target analytes.

For dilutions, we adjust the concentration of the labeled compounds to 100pg/uL in the extract, as required in Section 17.5 of Method 1668A. The clean-up standard concentration is not adjusted with the labeled standards, as the clean-up standard measures the extraction recoveries in the 1:1 extract. Please disregard the recoveries for the clean-up standard in the dilutions

Detection Limits

Detection limits are calculated for each congener in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

Approved by _____ Date 08/20/09

Xiangqiu Liang, Laboratory Director

Client: GeoSyntec Consultants
Project: TDY/SC0307

Service Request: E0900543

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E0900543-001	MWCL-2	7/21/09	12:55
E0900543-002	MWCL-4	7/21/09	14:07
E0900543-003	MWCL-6	7/21/09	12:47
E0900543-004	MWCL-8R	7/21/09	14:25
E0900543-005	B120-MW2	7/22/09	12:30
E0900543-006	B120-MW3	7/22/09	10:56

Superset Summary

Service Request: E0900543

SuperSet Reference: 09-0000115480 rev 00

1668A/CI Biphen Cong

Calibrations: 05/01/08

Data Files:

<i>Raw Data</i>	<i>Begin CCAL</i>	<i>Method Blank</i>	<i>Lab ID</i>
U220017	U220014	U220021	EQ0900286-02
U220018	U220014	U220021	EQ0900286-03
U220021	U220019	U220021	EQ0900286-01
U220023	U220019	U220021	E0900543-002
U220024	U220019	U220021	E0900543-003
U220025	U220019	U220021	E0900543-004
U220026	U220019	U220021	E0900543-005.R01
U220027	U220019	U220021	E0900543-006
U220044	U220040	U220021	E0900543-001
U220047	U220040	U220021	E0900543-005

Laboratory Certifications 2009-2010

STATE/PROGRAM	AGENCY	CERTIFICATION ID	EXP DATE
ARIZONA	AZ-DHS	AZ0725	05/26/10
ARKANSAS	ADEQ	09-048-0	06/16/10
CALIFORNIA	CA-ELAP	2452	02/28/11
FLORIDA/NELAP	FL-DOHS	E87611	06/30/10
HAWAII	HI-DOH	N/A	06/30/10
ILLINOIS/NELAP	IL-EPA	002122	10/06/09
LOUISIANA/NELAP	LELAP	03048	06/30/10
MAINE	ME-DOHS	2008031	06/05/10
MICHIGAN	MIDEQ	9971	06/30/10
MINNESOTA	MDH	048-999-427	03/25/10
NEVADA	NDEP	TX014112009A	07/31/10
NEW JERSEY	NJDEP	TX008	06/30/10
NEW MEXICO	NMED-DWB	N/A	06/30/10
NEW YORK/NELAP	NY-DOH	11707	03/31/10
NFESC/NAVY	NFESC	N/A	01/09/10
OKLAHOMA	OKDEQ	D9925, 9962	08/31/09
OREGON/NELAP	ORELAP	TX200002-006	03/24/10
TENNESSEE	TNDEC	04016	06/30/10
TEXAS/NELAP	TCEQ	T104704216-09-TX	06/30/10
UTAH/NELAP	UTELCP	COLU2	06/30/10
SOIL IMPORT PERMIT	USDA	P330-09-00067	03/27/12
WASHINGTON/NELAP	WA-Ecology	C1855	11/14/09
WEST VIRGINIA	WVDEP	347	06/30/10

Abbreviations, Acronyms & Definitions

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
MRL	Method Reporting Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent Recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
RRT	Relative Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-Noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

Data Qualifier Flags – PCB Congeners

- **B** Indicates the associated analyte is found in the method blank, as well as in the sample
- **E** Indicates an estimated value – used when the analyte concentration exceeds the upper end of the linear calibration range
- **J** Indicates an estimated value – used when the analyte concentration is below the method reporting limit (MRL) and above the estimated detection limit (EDL)
- **K** EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.
- **U** Indicates the compound was analyzed and not detected
- **Y** Samples that had recoveries of labeled standards outside the acceptance limits are flagged with 'Y' flags on the Form 2s. In all cases, the signal-to-noise ratios are greater than 10:1, making these data acceptable.
- **ND** Indicates concentration is reported as 'Not Detected'
- **S** Peak is saturated; data not reportable
- **Q** Lock-mass interference by ether compounds

CAS/HOU - Form Production, Peer Review & Project Review Signatures

SR# Unique ID

First Level - Data Processing - to be filled by person generating the forms

Date	8/10/09	Person 1	lee	2-6
Date		Person 2		

Second Level - Data Review - to be filled by person doing peer review

Date	08/10/09	Primary Data Reviewer	[Signature]
Date		Secondary Data Reviewer	

Project Level - Review - to be filled by person doing project compliance review

Date	08/20/09	Reviewer	
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CAS/HOU - Form Production, Peer Review & Project Review Signatures

SR# Unique ID

First Level - Data Processing - to be filled by person generating the forms

Date	08/18/09	Person 1	<i>JD (001, 005DL)</i>
Date		Person 2	

Second Level - Data Review - to be filled by person doing peer review

Date	8/18/09	Primary Data Reviewer	<i>Jpc (001, 005DL)</i>
Date		Secondary Data Reviewer	

Project Level - Review - to be filled by person doing project compliance review

Date	08/20/09	Reviewer	
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Analytical Results

19408 Park Row, Suite 320, Houston, TX 77084

Phone (713)266-1599 Fax (713)266-0130

www.caslab.com

An Employee Owned Company

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-2
Lab Code: E0900543-001

Service Request: E0900543
Date Collected: 7/21/09 1255
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 920mL
Data File Name: U220044
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1500
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	ND	U	25.8	217			1
PCB 2	ND	U	33.6	10.9			1
PCB 3	ND	U	40.1	217			1
PCB 4	ND	U	851	543			1
PCB 10	ND	U	600	54.3			1
PCB 9	ND	U	252	54.3			1
PCB 7	ND	U	233	54.3			1
PCB 6	ND	U	251	54.3			1
PCB 5	ND	U	244	54.3			1
PCB 8	ND	U	239	543			1
PCB 14	ND	U	243	109			1
PCB 11	1000	B	253	217	1.33	0.971	1
PCBs 12 + 13	ND	U	242	109			1
PCB 15	ND	U	263	543			1
PCB 19	ND	U	116	109			1
PCBs 18 + 30	ND	U	93.9	543			1
PCB 17	ND	U	108	217			1
PCB 27	ND	U	82.0	217			1
PCB 24	ND	U	80.2	217			1
PCB 16	ND	U	145	109			1
PCB 32	ND	U	74.6	217			1
PCB 34	ND	U	106	217			1
PCB 23	ND	U	99.4	217			1
PCBs 26 + 29	ND	U	96.1	217			1
PCB 25	ND	U	94.2	217			1
PCB 31	ND	U	103	543			1
PCBs 20 + 28	ND	U	95.7	543			1
PCBs 21 + 33	ND	U	103	217			1
PCB 22	ND	U	102	217			1
PCB 36	ND	U	103	217			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-2
Lab Code: E0900543-001

Service Request: E0900543
Date Collected: 7/21/09 1255
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 920mL
Data File Name: U220044
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1500
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 39	ND	U	95.8	217			1
PCB 38	ND	U	116	217			1
PCB 35	ND	U	122	217			1
PCB 37	ND	U	131	543			1
PCB 54	ND	U	27.0	543			1
PCBs 50 + 53	ND	U	50.8	217			1
PCBs 45 + 51	ND	U	52.7	217			1
PCB 46	ND	U	60.0	217			1
PCB 52	203	BJ	53.5	543	0.81	1.204	1
PCBs 43 + 73	ND	U	48.5	543			1
PCBs 49 + 69	78.1	BJ	48.5	543	0.77	1.226	1
PCB 48	ND	U	52.2	217			1
PCBs 44 + 47 + 65	107	BJ	49.9	543	0.86	1.248	1
PCBs 59 + 62 + 75	ND	U	42.2	217			1
PCB 42	ND	U	64.0	217			1
PCBs 41 + 71 + 40	ND	U	57.2	543			1
PCB 64	ND	U	44.0	217			1
PCB 72	ND	U	44.2	543			1
PCB 68	ND	U	40.5	543			1
PCB 57	ND	U	46.5	543			1
PCB 58	ND	U	41.7	543			1
PCB 67	ND	U	40.3	543			1
PCB 63	ND	U	45.0	543			1
PCBs 70 + 61 + 74 + 76	93.4	BJ	42.1	543	0.77	0.888	1
PCB 66	ND	U	43.6	543			1
PCB 55	ND	U	43.7	543			1
PCB 56	ND	U	29.1	217			1
PCB 60	ND	U	28.0	543			1
PCB 80	ND	U	24.4	543			1
PCB 79	ND	U	25.8	543			1
PCB 78	ND	U	31.1	543			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-2
Lab Code: E0900543-001

Service Request: E0900543
Date Collected: 7/21/09 1255
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 920mL
Data File Name: U220044
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1500
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 81	ND	U	29.8	543			1
PCB 77	ND	U	31.4	543			1
PCB 104	ND	U	30.5	543			1
PCB 96	ND	U	31.1	543			1
PCB 103	ND	U	39.0	543			1
PCB 94	ND	U	42.5	543			1
PCB 95	99.9	BJK	41.4	543	1.28	1.105	1
PCBs 93 + 100	ND	U	37.9	543			1
PCBs 98 + 102	ND	U	42.2	543			1
PCBs 88 + 91	ND	U	40.6	543			1
PCB 84	ND	U	44.1	543			1
PCB 89	ND	U	27.0	543			1
PCB 121	ND	U	17.3	543			1
PCB 92	ND	U	25.7	543			1
PCBs 90 + 101 + 113	98.8	BJ	21.1	1090	1.36	0.884	1
PCBs 83 + 99	ND	U	23.6	543			1
PCB 112	ND	U	17.6	1090			1
PCBs 86 + 87 + 97 + 108 + 119 + 125	ND	U	20.8	543			1
PCB 117	ND	U	18.5	217			1
PCBs 85 + 116	ND	U	20.9	217			1
PCBs 110 + 115	137	BJ	18.3	1090	1.58	0.933	1
PCB 82	ND	U	30.2	543			1
PCB 111	ND	U	17.8	1090			1
PCB 120	ND	U	17.6	543			1
PCBs 107 + 124	ND	U	17.0	1090			1
PCB 109	ND	U	15.3	217			1
PCB 123	ND	U	16.3	543			1
PCB 106	ND	U	17.8	543			1
PCB 118	67.5	BJ	15.5	543	1.63	1.001	1
PCB 122	ND	U	18.2	543			1
PCB 114	ND	U	16.0	543			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-2
Lab Code: E0900543-001

Service Request: E0900543
Date Collected: 7/21/09 1255
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 920mL
Data File Name: U220044
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1500
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 105	30.3	BJ	16.4	217	1.61	1.001	1
PCB 127	ND	U	17.4	1090			1
PCB 126	ND	U	16.3	543			1
PCB 155	ND	U	11.1	1090			1
PCB 152	ND	U	11.6	1090			1
PCB 150	ND	U	10.9	1090			1
PCB 136	ND	U	12.0	217			1
PCB 145	ND	U	11.2	1090			1
PCB 148	ND	U	16.1	1090			1
PCBs 135 + 151	ND	U	15.8	543			1
PCB 154	ND	U	13.1	543			1
PCB 144	ND	U	16.3	543			1
PCBs 147 + 149	49.0	BJ	13.2	543	1.29	1.117	1
PCB 134	ND	U	16.6	543			1
PCB 143	ND	U	15.7	543			1
PCBs 139 + 140	ND	U	12.7	543			1
PCB 131	ND	U	15.7	543			1
PCB 142	ND	U	15.7	1090			1
PCB 132	41.9	BJ	14.3	543	1.14	1.154	1
PCB 133	ND	U	14.8	543			1
PCB 165	ND	U	10.4	1090			1
PCB 146	ND	U	11.6	543			1
PCB 161	ND	U	10.8	1090			1
PCBs 153 + 168	70.4	BJ	10.9	543	1.29	0.909	1
PCB 141	ND	U	13.1	217			1
PCB 130	ND	U	16.1	543			1
PCB 137	ND	U	13.2	1090			1
PCB 164	ND	U	10.1	543			1
PCBs 129 + 138 + 163	109	BJ	12.8	543	1.19	0.935	1
PCB 160	ND	U	10.2	543			1
PCB 158	ND	U	9.12	217			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-2
Lab Code: E0900543-001

Service Request: E0900543
Date Collected: 7/21/09 1255
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 920mL
Data File Name: U220044
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1500
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 128 + 166	ND	U	11.9	543			1
PCB 159	ND	U	12.0	1090			1
PCB 162	ND	U	10.7	1090			1
PCB 167	ND	U	10.9	543			1
PCBs 156 + 157	ND	U	14.0	543			1
PCB 169	ND	U	12.8	543			1
PCB 188	ND	U	6.76	543			1
PCB 179	ND	U	6.73	543			1
PCB 184	ND	U	6.07	1090			1
PCB 176	ND	U	6.81	1090			1
PCB 186	ND	U	6.45	1090			1
PCB 178	ND	U	9.21	543			1
PCB 175	ND	U	8.68	1090			1
PCB 187	27.2	BJK	7.58	543	0.82	1.098	1
PCB 182	ND	U	8.01	1090			1
PCB 183	ND	U	12.1	1090			1
PCB 185	ND	U	12.3	1090			1
PCB 174	ND	U	12.3	543			1
PCB 177	ND	U	12.5	543			1
PCB 181	ND	U	12.1	1090			1
PCBs 171 + 173	ND	U	13.7	1090			1
PCB 172	ND	U	13.6	1090			1
PCB 192	ND	U	9.72	1090			1
PCBs 180 + 193	20.2	BJK	10.2	543	0.84	0.919	1
PCB 191	ND	U	9.82	1090			1
PCB 170	ND	U	13.7	543			1
PCB 190	ND	U	9.01	543			1
PCB 189	ND	U	9.63	543			1
PCB 202	ND	U	8.56	1090			1
PCB 201	ND	U	7.73	1090			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-2
Lab Code: E0900543-001

Service Request: E0900543
Date Collected: 7/21/09 1255
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 920mL
Data File Name: U220044
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1500
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 204	ND	U	7.85	1090			1
PCB 197	ND	U	7.18	1090			1
PCB 200	ND	U	7.72	1090			1
PCBs 198 + 199	22.3	BJK	10.1	543	1.15	1.103	1
PCB 196	ND	U	10.5	1090			1
PCB 203	18.4	BJ	8.83	1090	0.96	0.927	1
PCB 195	ND	U	10.7	1090			1
PCB 194	ND	U	9.97	543			1
PCB 205	ND	U	7.26	1090			1
PCB 208	18.6	BJ	8.00	1090	0.85	1.001	1
PCB 207	ND	U	9.63	1090			1
PCB 206	55.8	BJ	8.72	1090	0.68	1.000	1
PCB 209	40.4	BJ	4.08	543	1.16	1.000	1
Total MonoCB	ND	U	25.8	217			1
Total DiCB	1000		233	543			1
Total TriCB	ND	U	74.6	543			1
Total TetraCB	481	J	24.4	543			1
Total PentaCB	434	J	15.3	1090			1
Total HexaCB	270	J	9.12	1090			1
Total HeptaCB	47.5	J	6.07	1090			1
Total OctaCB	40.7	J	7.18	1090			1
Total NonaCB	74.4	J	8.00	1090			1
Total PCBs	2390		4.08	1090			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-2
Lab Code: E0900543-001

Service Request: E0900543
Date Collected: 7/21/09 1255
Date Received: 7/23/09
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 920mL
Data File Name: U220044
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1500
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	2000	357.643	18		15-150	3.08	0.743
PCB 3L	2000	370.354	19		15-150	3.18	0.871
PCB 4L	2000	458.312	23	Y	25-150	1.51	0.885
PCB 15L	2000	498.542	25		25-150	1.60	1.223
PCB 19L	2000	531.298	27		25-150	1.11	1.065
PCB 37L	2000	557.296	28		25-150	1.02	1.080
PCB 54L	2000	527.683	26		25-150	0.76	0.832
PCB 81L	2000	623.826	31		25-150	0.76	1.323
PCB 77L	2000	623.168	31		25-150	0.76	1.344
PCB 104L	2000	639.809	32		25-150	1.56	0.829
PCB 123L	2000	605.662	30		25-150	1.51	1.133
PCB 118L	2000	636.718	32		25-150	1.55	1.143
PCB 114L	2000	586.868	29		25-150	1.59	1.158
PCB 105L	2000	611.935	31		25-150	1.56	1.177
PCB 126L	2000	600.154	30		25-150	1.54	1.265
PCB 155L	2000	835.255	42		25-150	1.24	0.807
PCB 167L	2000	659.270	33		25-150	1.31	1.070
PCBs 156L + 157L	4000	1302.586	33		25-150	1.30	1.097
PCB 169L	2000	589.434	29		25-150	1.33	1.171
PCB 188L	2000	882.613	44		25-150	1.02	0.735
PCB 189L	2000	657.468	33		25-150	1.03	0.962
PCB 202L	2000	809.196	40		25-150	0.92	0.833
PCB 205L	2000	802.977	40		25-150	0.89	1.008
PCB 208L	2000	871.517	44		25-150	0.79	0.953
PCB 206L	2000	705.143	35		25-150	0.78	1.040
PCB 209L	2000	759.458	38		25-150	1.21	1.069
PCB 28L	2000	487.465	24	Y	30-135	1.09	0.934
PCB 111L	2000	732.938	37		30-135	1.61	1.077
PCB 178L	2000	876.903	44		30-135	1.02	1.010

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-4
Lab Code: E0900543-002

Service Request: E0900543
Date Collected: 7/21/09 1407
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 540mL
Data File Name: U220023
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2230
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	ND	U	12.0	370			1
PCB 2	ND	U	13.9	18.5			1
PCB 3	ND	U	15.3	370			1
PCB 4	ND	U	149	926			1
PCB 10	ND	U	106	92.6			1
PCB 9	ND	U	50.9	92.6			1
PCB 7	ND	U	47.0	92.6			1
PCB 6	ND	U	50.7	92.6			1
PCB 5	ND	U	49.2	92.6			1
PCB 8	146	BJK	48.3	926	1.30	1.185	1
PCB 14	ND	U	49.1	185			1
PCB 11	1530	B	51.0	370	1.47	0.971	1
PCBs 12 + 13	ND	U	48.8	185			1
PCB 15	ND	U	53.2	926			1
PCB 19	ND	U	54.0	185			1
PCBs 18 + 30	143	BJ	41.7	926	0.97	1.100	1
PCB 17	74.2	BJK	47.7	370	1.23	1.121	1
PCB 27	ND	U	36.4	370			1
PCB 24	ND	U	35.6	370			1
PCB 16	88.9	BJ	64.1	185	1.16	1.145	1
PCB 32	ND	U	33.2	370			1
PCB 34	ND	U	28.9	370			1
PCB 23	ND	U	27.2	370			1
PCBs 26 + 29	ND	U	26.3	370			1
PCB 25	ND	U	25.8	370			1
PCB 31	123	BJ	28.0	926	0.89	0.855	1
PCBs 20 + 28	ND	U	26.2	926			1
PCBs 21 + 33	82.6	BJ	28.1	370	0.95	0.873	1
PCB 22	44.9	BJK	27.8	370	1.28	0.887	1
PCB 36	ND	U	28.0	370			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-4
Lab Code: E0900543-002

Service Request: E0900543
Date Collected: 7/21/09 1407
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 540mL
Data File Name: U220023
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2230
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 39	ND	U	26.2	370			1
PCB 38	ND	U	31.7	370			1
PCB 35	ND	U	33.3	370			1
PCB 37	ND	U	34.9	926			1
PCB 54	ND	U	12.3	926			1
PCBs 50 + 53	ND	U	13.8	370			1
PCBs 45 + 51	ND	U	14.3	370			1
PCB 46	ND	U	16.3	370			1
PCB 52	127	BJ	14.5	926	0.72	1.203	1
PCBs 43 + 73	ND	U	13.2	926			1
PCBs 49 + 69	46.7	BJK	13.2	926	0.64	1.225	1
PCB 48	ND	U	14.1	370			1
PCBs 44 + 47 + 65	92.5	BJ	13.5	926	0.70	1.246	1
PCBs 59 + 62 + 75	ND	U	11.5	370			1
PCB 42	ND	U	17.3	370			1
PCBs 41 + 71 + 40	16.9	BJK	15.5	926	1.94	1.292	1
PCB 64	30.7	BJ	11.9	370	0.71	1.301	1
PCB 72	ND	U	12.0	926			1
PCB 68	ND	U	11.0	926			1
PCB 57	ND	U	12.6	926			1
PCB 58	ND	U	11.3	926			1
PCB 67	ND	U	10.9	926			1
PCB 63	ND	U	12.2	926			1
PCBs 70 + 61 + 74 + 76	96.9	BJ	11.4	926	0.75	0.889	1
PCB 66	37.3	BJK	11.8	926	0.62	0.897	1
PCB 55	ND	U	11.8	926			1
PCB 56	17.0	BJ	9.23	370	0.70	0.915	1
PCB 60	ND	U	8.88	926			1
PCB 80	ND	U	7.74	926			1
PCB 79	ND	U	8.16	926			1
PCB 78	ND	U	9.86	926			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-4
Lab Code: E0900543-002

Service Request: E0900543
Date Collected: 7/21/09 1407
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 540mL
Data File Name: U220023
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2230
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 81	ND	U	9.19	926			1
PCB 77	ND	U	9.58	926			1
PCB 104	ND	U	10.1	926			1
PCB 96	ND	U	9.39	926			1
PCB 103	ND	U	11.8	926			1
PCB 94	ND	U	12.9	926			1
PCB 95	112	BJ	12.5	926	1.67	1.104	1
PCBs 93 + 100	ND	U	11.5	926			1
PCBs 98 + 102	ND	U	12.8	926			1
PCBs 88 + 91	17.3	BJ	12.3	926	1.44	1.136	1
PCB 84	27.0	BJK	13.4	926	1.13	1.142	1
PCB 89	ND	U	8.80	926			1
PCB 121	ND	U	5.62	926			1
PCB 92	17.1	BJ	8.38	926	1.45	0.868	1
PCBs 90 + 101 + 113	98.5	BJ	6.89	1850	1.57	0.883	1
PCBs 83 + 99	33.6	BJ	7.70	926	1.37	0.898	1
PCB 112	ND	U	5.74	1850			1
PCBs 86 + 87 + 97 + 108 + 119 + 125	78.0	BJ	6.78	926	1.46	0.913	1
PCB 117	ND	U	6.03	370			1
PCBs 85 + 116	11.9	BJK	6.81	370	2.07	0.930	1
PCBs 110 + 115	123	BJ	5.98	1850	1.63	0.934	1
PCB 82	ND	U	9.86	926			1
PCB 111	ND	U	5.79	1850			1
PCB 120	ND	U	5.74	926			1
PCBs 107 + 124	ND	U	12.0	1850			1
PCB 109	ND	U	10.8	370			1
PCB 123	ND	U	11.2	926			1
PCB 106	ND	U	12.6	926			1
PCB 118	58.7	BJ	10.6	926	1.43	1.000	1
PCB 122	ND	U	12.9	926			1
PCB 114	ND	U	11.3	926			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-4
Lab Code: E0900543-002

Service Request: E0900543
Date Collected: 7/21/09 1407
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 540mL
Data File Name: U220023
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2230
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 105	24.2	BJ	11.0	370	1.74	1.000	1
PCB 127	ND	U	12.4	1850			1
PCB 126	ND	U	10.1	926			1
PCB 155	ND	U	5.66	1850			1
PCB 152	ND	U	5.03	1850			1
PCB 150	ND	U	4.72	1850			1
PCB 136	15.7	BJ	5.21	370	1.06	1.022	1
PCB 145	ND	U	4.86	1850			1
PCB 148	ND	U	6.99	1850			1
PCBs 135 + 151	28.7	BJ	6.89	926	1.33	1.091	1
PCB 154	ND	U	5.70	926			1
PCB 144	ND	U	7.11	926			1
PCBs 147 + 149	53.8	BJK	4.74	926	1.04	1.117	1
PCB 134	ND	U	5.98	926			1
PCB 143	ND	U	5.66	926			1
PCBs 139 + 140	ND	U	4.56	926			1
PCB 131	ND	U	5.64	926			1
PCB 142	ND	U	5.67	1850			1
PCB 132	30.7	BJ	5.17	926	1.19	1.153	1
PCB 133	ND	U	5.34	926			1
PCB 165	ND	U	3.73	1850			1
PCB 146	7.88	BJ	4.18	926	1.18	0.895	1
PCB 161	ND	U	3.89	1850			1
PCBs 153 + 168	63.1	BJ	3.92	926	1.11	0.908	1
PCB 141	13.7	BJK	4.73	370	0.90	0.913	1
PCB 130	ND	U	5.79	926			1
PCB 137	ND	U	4.75	1850			1
PCB 164	ND	U	3.63	926			1
PCBs 129 + 138 + 163	95.9	BJ	4.60	926	1.26	0.936	1
PCB 160	ND	U	3.66	926			1
PCB 158	6.48	BJK	3.30	370	0.76	0.944	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-4
Lab Code: E0900543-002

Service Request: E0900543
Date Collected: 7/21/09 1407
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 540mL
Data File Name: U220023
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2230
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 128 + 166	13.5	BJ	4.29	926	1.32	0.963	1
PCB 159	ND	U	5.41	1850			1
PCB 162	ND	U	4.83	1850			1
PCB 167	ND	U	4.95	926			1
PCBs 156 + 157	8.95	BJ	5.92	926	1.05	1.000	1
PCB 169	ND	U	5.00	926			1
PCB 188	ND	U	5.25	926			1
PCB 179	8.59	BJ	5.03	926	0.95	1.009	1
PCB 184	ND	U	4.54	1850			1
PCB 176	ND	U	5.09	1850			1
PCB 186	ND	U	4.83	1850			1
PCB 178	ND	U	6.89	926			1
PCB 175	ND	U	6.49	1850			1
PCB 187	19.1	BJK	5.67	926	0.86	1.098	1
PCB 182	ND	U	6.00	1850			1
PCB 183	ND	U	7.66	1850			1
PCB 185	ND	U	7.77	1850			1
PCB 174	11.1	BJ	7.75	926	1.07	1.119	1
PCB 177	ND	U	7.91	926			1
PCB 181	ND	U	7.61	1850			1
PCBs 171 + 173	ND	U	8.62	1850			1
PCB 172	ND	U	8.59	1850			1
PCB 192	ND	U	6.16	1850			1
PCBs 180 + 193	18.7	BJK	6.43	926	1.28	0.918	1
PCB 191	ND	U	6.22	1850			1
PCB 170	ND	U	8.65	926			1
PCB 190	ND	U	5.70	926			1
PCB 189	ND	U	5.70	926			1
PCB 202	11.0	BJ	5.30	1850	0.83	1.000	1
PCB 201	ND	U	4.92	1850			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-4
Lab Code: E0900543-002

Service Request: E0900543
Date Collected: 7/21/09 1407
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 540mL
Data File Name: U220023
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2230
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 204	ND	U	4.99	1850			1
PCB 197	ND	U	4.56	1850			1
PCB 200	ND	U	4.91	1850			1
PCBs 198 + 199	25.2	BJK	6.39	926	1.12	1.104	1
PCB 196	ND	U	6.66	1850			1
PCB 203	17.5	BJ	5.61	1850	0.87	0.927	1
PCB 195	ND	U	6.80	1850			1
PCB 194	14.8	BJ	6.34	926	0.85	0.992	1
PCB 205	ND	U	4.77	1850			1
PCB 208	18.1	BJK	5.13	1850	1.01	1.000	1
PCB 207	ND	U	6.49	1850			1
PCB 206	58.4	BJ	10.8	1850	0.75	1.001	1
PCB 209	23.0	BJ	3.73	926	1.16	1.000	1
Total MonoCB	ND	U	12.0	370			1
Total DiCB	1680		47.0	926			1
Total TriCB	556	J	25.8	926			1
Total TetraCB	465	J	7.74	926			1
Total PentaCB	602	J	5.62	1850			1
Total HexaCB	338	J	3.30	1850			1
Total HeptaCB	57.4	J	4.54	1850			1
Total OctaCB	68.5	J	4.56	1850			1
Total NonaCB	76.5	J	5.13	1850			1
Total PCBs	3860		3.30	1850			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-4
Lab Code: E0900543-002

Service Request: E0900543
Date Collected: 7/21/09 1407
Date Received: 7/23/09
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 540mL
Data File Name: U220023
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2230
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	2000	408.425	20		15-150	3.06	0.743
PCB 3L	2000	444.603	22		15-150	3.16	0.871
PCB 4L	2000	542.528	27		25-150	1.55	0.885
PCB 15L	2000	572.700	29		25-150	1.52	1.222
PCB 19L	2000	575.769	29		25-150	1.10	1.065
PCB 37L	2000	561.146	28		25-150	0.98	1.080
PCB 54L	2000	548.470	27		25-150	0.77	0.832
PCB 81L	2000	811.678	41		25-150	0.77	1.323
PCB 77L	2000	805.804	40		25-150	0.78	1.344
PCB 104L	2000	627.512	31		25-150	1.55	0.829
PCB 123L	2000	729.376	36		25-150	1.54	1.133
PCB 118L	2000	749.859	37		25-150	1.54	1.143
PCB 114L	2000	697.582	35		25-150	1.55	1.158
PCB 105L	2000	732.067	37		25-150	1.55	1.176
PCB 126L	2000	836.080	42		25-150	1.53	1.264
PCB 155L	2000	771.296	39		25-150	1.27	0.807
PCB 167L	2000	750.717	38		25-150	1.31	1.069
PCBs 156L + 157L	4000	1628.321	41		25-150	1.31	1.096
PCB 169L	2000	820.234	41		25-150	1.27	1.171
PCB 188L	2000	782.259	39		25-150	1.01	0.735
PCB 189L	2000	738.342	37		25-150	1.05	0.962
PCB 202L	2000	764.440	38		25-150	0.89	0.833
PCB 205L	2000	815.127	41		25-150	0.90	1.008
PCB 208L	2000	902.341	45		25-150	0.76	0.954
PCB 206L	2000	668.797	33		25-150	0.77	1.040
PCB 209L	2000	688.983	34		25-150	1.16	1.069
PCB 28L	2000	440.867	22	Y	30-135	1.03	0.933
PCB 111L	2000	786.116	39		30-135	1.55	1.076
PCB 178L	2000	862.801	43		30-135	1.02	1.010

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-6
Lab Code: E0900543-003

Service Request: E0900543
Date Collected: 7/21/09 1247
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 990mL
Data File Name: U220024
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2338
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	12.9	BJK	9.55	202	1.93	1.001	1
PCB 2	ND	U	10.6	10.1			1
PCB 3	18.6	BJK	11.2	202	1.69	1.002	1
PCB 4	ND	U	152	505			1
PCB 10	ND	U	98.7	50.5			1
PCB 9	ND	U	40.6	50.5			1
PCB 7	ND	U	37.5	50.5			1
PCB 6	ND	U	40.4	50.5			1
PCB 5	ND	U	39.2	50.5			1
PCB 8	83.1	BJK	38.5	505	1.20	1.184	1
PCB 14	ND	U	39.1	101			1
PCB 11	943	B	40.7	202	1.64	0.972	1
PCBs 12 + 13	ND	U	38.9	101			1
PCB 15	ND	U	40.0	505			1
PCB 19	ND	U	34.3	101			1
PCBs 18 + 30	81.6	BJ	21.0	505	1.10	1.099	1
PCB 17	ND	U	24.1	202			1
PCB 27	ND	U	18.4	202			1
PCB 24	ND	U	18.0	202			1
PCB 16	ND	U	32.3	101			1
PCB 32	25.1	BJ	16.7	202	1.15	1.171	1
PCB 34	ND	U	17.7	202			1
PCB 23	ND	U	16.7	202			1
PCBs 26 + 29	ND	U	16.2	202			1
PCB 25	ND	U	15.8	202			1
PCB 31	73.4	BJ	17.2	505	1.20	0.855	1
PCBs 20 + 28	82.3	BJ	16.1	505	1.03	0.866	1
PCBs 21 + 33	50.8	BJ	17.3	202	0.99	0.874	1
PCB 22	ND	U	17.1	202			1
PCB 36	ND	U	17.2	202			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-6
Lab Code: E0900543-003

Service Request: E0900543
Date Collected: 7/21/09 1247
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 990mL
Data File Name: U220024
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2338
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 39	ND	U	16.1	202			1
PCB 38	ND	U	19.5	202			1
PCB 35	ND	U	20.4	202			1
PCB 37	ND	U	19.9	505			1
PCB 54	ND	U	6.96	505			1
PCBs 50 + 53	ND	U	8.06	202			1
PCBs 45 + 51	15.0	BJK	8.36	202	0.63	1.128	1
PCB 46	ND	U	9.52	202			1
PCB 52	84.8	BJ	8.49	505	0.70	1.203	1
PCBs 43 + 73	ND	U	7.70	505			1
PCBs 49 + 69	35.0	BJ	7.70	505	0.66	1.225	1
PCB 48	14.1	BJ	8.28	202	0.78	1.237	1
PCBs 44 + 47 + 65	64.2	BJ	7.92	505	0.77	1.247	1
PCBs 59 + 62 + 75	ND	U	6.70	202			1
PCB 42	ND	U	10.2	202			1
PCBs 41 + 71 + 40	21.5	BJ	9.07	505	0.84	1.291	1
PCB 64	21.2	BJK	6.98	202	0.91	1.301	1
PCB 72	ND	U	7.01	505			1
PCB 68	ND	U	6.42	505			1
PCB 57	ND	U	7.37	505			1
PCB 58	ND	U	6.62	505			1
PCB 67	ND	U	6.39	505			1
PCB 63	ND	U	7.14	505			1
PCBs 70 + 61 + 74 + 76	70.7	BJ	6.69	505	0.79	0.887	1
PCB 66	35.4	BJ	6.92	505	0.80	0.897	1
PCB 55	ND	U	6.93	505			1
PCB 56	ND	U	7.69	202			1
PCB 60	ND	U	7.40	505			1
PCB 80	ND	U	6.45	505			1
PCB 79	ND	U	6.80	505			1
PCB 78	ND	U	8.22	505			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-6
Lab Code: E0900543-003

Service Request: E0900543
Date Collected: 7/21/09 1247
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 990mL
Data File Name: U220024
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2338
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 81	ND	U	7.49	505			1
PCB 77	ND	U	7.62	505			1
PCB 104	ND	U	3.90	505			1
PCB 96	ND	U	3.58	505			1
PCB 103	ND	U	4.49	505			1
PCB 94	ND	U	4.89	505			1
PCB 95	86.1	BJ	4.76	505	1.58	1.105	1
PCBs 93 + 100	ND	U	4.36	505			1
PCBs 98 + 102	ND	U	4.86	505			1
PCBs 88 + 91	7.69	BJK	4.67	505	0.66	1.136	1
PCB 84	26.7	BJ	5.08	505	1.45	1.143	1
PCB 89	ND	U	5.62	505			1
PCB 121	ND	U	3.59	505			1
PCB 92	14.1	BJ	5.35	505	1.63	0.868	1
PCBs 90 + 101 + 113	69.6	BJ	4.40	1010	1.65	0.883	1
PCBs 83 + 99	20.3	BJK	4.92	505	2.01	0.897	1
PCB 112	ND	U	3.67	1010			1
PCBs 86 + 87 + 97 + 108 + 119 + 125	46.8	BJ	4.33	505	1.43	0.913	1
PCB 117	ND	U	3.85	202			1
PCBs 85 + 116	6.15	BJK	4.35	202	2.67	0.929	1
PCBs 110 + 115	91.7	BJ	3.82	1010	1.40	0.933	1
PCB 82	9.12	BJK	6.29	505	1.25	0.941	1
PCB 111	ND	U	3.70	1010			1
PCB 120	ND	U	3.67	505			1
PCBs 107 + 124	ND	U	3.40	1010			1
PCB 109	ND	U	3.06	202			1
PCB 123	ND	U	3.17	505			1
PCB 106	ND	U	3.57	505			1
PCB 118	38.9	BJ	2.99	505	1.60	1.000	1
PCB 122	ND	U	3.65	505			1
PCB 114	ND	U	3.14	505			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-6
Lab Code: E0900543-003

Service Request: E0900543
Date Collected: 7/21/09 1247
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 990mL
Data File Name: U220024
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2338
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 105	16.0	BJ	3.15	202	1.62	1.001	1
PCB 127	ND	U	3.49	1010			1
PCB 126	ND	U	2.99	505			1
PCB 155	ND	U	2.94	1010			1
PCB 152	ND	U	2.81	1010			1
PCB 150	ND	U	2.64	1010			1
PCB 136	20.5	BJK	2.91	202	0.98	1.022	1
PCB 145	ND	U	2.72	1010			1
PCB 148	ND	U	3.91	1010			1
PCBs 135 + 151	41.3	BJ	3.85	505	1.24	1.090	1
PCB 154	ND	U	3.19	505			1
PCB 144	6.71	J	3.98	505	1.10	1.107	1
PCBs 147 + 149	77.4	BJ	5.16	505	1.08	1.117	1
PCB 134	ND	U	6.51	505			1
PCB 143	ND	U	6.16	505			1
PCBs 139 + 140	ND	U	4.97	505			1
PCB 131	ND	U	6.14	505			1
PCB 142	ND	U	6.17	1010			1
PCB 132	35.1	BJ	5.63	505	1.30	1.154	1
PCB 133	ND	U	5.81	505			1
PCB 165	ND	U	4.06	1010			1
PCB 146	15.5	BJ	4.55	505	1.28	0.895	1
PCB 161	ND	U	4.24	1010			1
PCBs 153 + 168	59.3	BJ	4.27	505	1.17	0.908	1
PCB 141	13.8	BJ	5.16	202	1.13	0.913	1
PCB 130	ND	U	6.30	505			1
PCB 137	ND	U	5.17	1010			1
PCB 164	ND	U	3.96	505			1
PCBs 129 + 138 + 163	112	BJ	5.01	505	1.25	0.936	1
PCB 160	ND	U	3.99	505			1
PCB 158	11.8	BJK	3.59	202	1.00	0.944	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-6
Lab Code: E0900543-003

Service Request: E0900543
Date Collected: 7/21/09 1247
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 990mL
Data File Name: U220024
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2338
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 128 + 166	16.3	BJ	4.67	505	1.07	0.963	1
PCB 159	ND	U	3.28	1010			1
PCB 162	ND	U	2.93	1010			1
PCB 167	ND	U	3.00	505			1
PCBs 156 + 157	8.61	BJK	3.80	505	0.96	1.000	1
PCB 169	ND	U	3.01	505			1
PCB 188	ND	U	3.41	505			1
PCB 179	34.2	BJ	3.27	505	0.96	1.009	1
PCB 184	ND	U	2.95	1010			1
PCB 176	4.89	JK	3.30	1010	1.26	1.031	1
PCB 186	ND	U	3.13	1010			1
PCB 178	13.5	JK	4.47	505	0.74	1.076	1
PCB 175	ND	U	4.21	1010			1
PCB 187	101	BJ	3.68	505	0.90	1.098	1
PCB 182	ND	U	3.89	1010			1
PCB 183	33.2	J	6.36	1010	0.96	1.113	1
PCB 185	ND	U	6.45	1010			1
PCB 174	31.8	BJ	6.44	505	0.97	1.120	1
PCB 177	34.4	J	6.57	505	1.07	1.130	1
PCB 181	ND	U	6.32	1010			1
PCBs 171 + 173	19.4	JK	7.16	1010	0.80	1.146	1
PCB 172	7.83	JK	7.13	1010	0.68	0.906	1
PCB 192	ND	U	5.11	1010			1
PCBs 180 + 193	126	BJ	5.34	505	1.03	0.918	1
PCB 191	ND	U	5.17	1010			1
PCB 170	62.8	J	7.18	505	0.97	0.942	1
PCB 190	11.8	J	4.74	505	1.11	0.952	1
PCB 189	ND	U	4.74	505			1
PCB 202	21.2	BJ	3.79	1010	0.95	1.000	1
PCB 201	11.8	BJK	3.35	1010	0.75	1.020	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-6
Lab Code: E0900543-003

Service Request: E0900543
Date Collected: 7/21/09 1247
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 990mL
Data File Name: U220024
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2338
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 204	ND	U	3.41	1010			1
PCB 197	ND	U	3.12	1010			1
PCB 200	11.3	JK	3.35	1010	1.18	1.042	1
PCBs 198 + 199	89.7	BJ	4.36	505	0.89	1.103	1
PCB 196	43.7	BJ	4.55	1010	0.99	0.923	1
PCB 203	60.5	BJ	3.83	1010	0.84	0.927	1
PCB 195	19.5	JK	4.64	1010	0.74	0.950	1
PCB 194	63.2	BJ	4.33	505	0.79	0.992	1
PCB 205	ND	U	3.11	1010			1
PCB 208	22.5	BJ	3.91	1010	0.75	1.000	1
PCB 207	10.9	J	4.76	1010	0.66	1.018	1
PCB 206	79.7	BJ	8.27	1010	0.82	1.000	1
PCB 209	18.6	BJK	2.41	505	1.46	1.000	1
Total MonoCB	31.5	J	9.55	202			1
Total DiCB	1030		37.5	505			1
Total TriCB	313	J	15.8	505			1
Total TetraCB	362	J	6.39	505			1
Total PentaCB	433	J	2.99	1010			1
Total HexaCB	418	J	2.64	1010			1
Total HeptaCB	480	J	2.95	1010			1
Total OctaCB	321	J	3.11	1010			1
Total NonaCB	113	J	3.91	1010			1
Total PCBs	3520		2.41	1010			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-6
Lab Code: E0900543-003

Service Request: E0900543
Date Collected: 7/21/09 1247
Date Received: 7/23/09
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 990mL
Data File Name: U220024
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2338
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	2000	287.898	14	Y	15-150	3.20	0.743
PCB 3L	2000	343.056	17		15-150	3.18	0.871
PCB 4L	2000	410.050	21	Y	25-150	1.51	0.886
PCB 15L	2000	487.280	24	Y	25-150	1.55	1.222
PCB 19L	2000	434.845	22	Y	25-150	0.99	1.065
PCB 37L	2000	639.476	32		25-150	1.07	1.080
PCB 54L	2000	469.925	23	Y	25-150	0.75	0.832
PCB 81L	2000	827.595	41		25-150	0.77	1.324
PCB 77L	2000	821.256	41		25-150	0.79	1.344
PCB 104L	2000	641.466	32		25-150	1.49	0.829
PCB 123L	2000	760.650	38		25-150	1.55	1.133
PCB 118L	2000	784.265	39		25-150	1.57	1.143
PCB 114L	2000	720.282	36		25-150	1.52	1.158
PCB 105L	2000	758.099	38		25-150	1.58	1.176
PCB 126L	2000	830.319	42		25-150	1.53	1.264
PCB 155L	2000	839.811	42		25-150	1.23	0.806
PCB 167L	2000	759.475	38		25-150	1.23	1.069
PCBs 156L + 157L	4000	1579.655	39		25-150	1.28	1.096
PCB 169L	2000	818.467	41		25-150	1.28	1.171
PCB 188L	2000	765.804	38		25-150	1.02	0.735
PCB 189L	2000	706.030	35		25-150	1.03	0.962
PCB 202L	2000	727.130	36		25-150	0.89	0.833
PCB 205L	2000	845.276	42		25-150	0.87	1.009
PCB 208L	2000	851.448	43		25-150	0.75	0.953
PCB 206L	2000	695.009	35		25-150	0.77	1.040
PCB 209L	2000	752.156	38		25-150	1.18	1.069
PCB 28L	2000	456.699	23	Y	30-135	1.02	0.933
PCB 111L	2000	809.070	40		30-135	1.58	1.076
PCB 178L	2000	892.110	45		30-135	1.01	1.010

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-8R
Lab Code: E0900543-004

Service Request: E0900543
Date Collected: 7/21/09 1425
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220025
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0046
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	ND	U	8.59	208			1
PCB 2	ND	U	10.2	10.4			1
PCB 3	ND	U	11.3	208			1
PCB 4	ND	U	79.5	521			1
PCB 10	ND	U	48.7	52.1			1
PCB 9	ND	U	36.5	52.1			1
PCB 7	ND	U	33.7	52.1			1
PCB 6	ND	U	36.4	52.1			1
PCB 5	ND	U	35.3	52.1			1
PCB 8	112	BJ	34.7	521	1.35	1.184	1
PCB 14	ND	U	35.2	104			1
PCB 11	1110	B	36.6	208	1.57	0.972	1
PCBs 12 + 13	ND	U	35.1	104			1
PCB 15	ND	U	34.9	521			1
PCB 19	ND	U	27.7	104			1
PCBs 18 + 30	86.8	BJ	15.3	521	1.01	1.100	1
PCB 17	42.9	BJ	17.5	208	1.04	1.121	1
PCB 27	ND	U	13.3	208			1
PCB 24	ND	U	13.0	208			1
PCB 16	51.3	BJ	23.4	104	1.12	1.145	1
PCB 32	76.2	BJ	12.1	208	1.03	1.172	1
PCB 34	ND	U	12.7	208			1
PCB 23	ND	U	12.0	208			1
PCBs 26 + 29	42.0	BJ	11.6	208	1.01	1.261	1
PCB 25	ND	U	11.4	208			1
PCB 31	104	BJ	12.4	521	1.04	0.855	1
PCBs 20 + 28	108	BJ	11.6	521	1.03	0.865	1
PCBs 21 + 33	55.9	BJK	12.4	208	0.87	0.873	1
PCB 22	39.1	BJ	12.3	208	1.07	0.886	1
PCB 36	ND	U	12.4	208			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-8R
Lab Code: E0900543-004

Service Request: E0900543
Date Collected: 7/21/09 1425
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220025
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0046
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 39	ND	U	11.6	208			1
PCB 38	ND	U	14.0	208			1
PCB 35	ND	U	14.7	208			1
PCB 37	ND	U	13.9	521			1
PCB 54	51.9	J	6.44	521	0.74	1.001	1
PCBs 50 + 53	92.4	BJ	5.97	208	0.87	1.097	1
PCBs 45 + 51	132	BJ	6.19	208	0.74	1.130	1
PCB 46	16.2	J	7.05	208	0.78	1.141	1
PCB 52	272	BJ	6.29	521	0.78	1.203	1
PCBs 43 + 73	ND	U	5.71	521			1
PCBs 49 + 69	116	BJ	5.70	521	0.73	1.225	1
PCB 48	10.6	BJK	6.13	208	1.00	1.237	1
PCBs 44 + 47 + 65	177	BJ	5.87	521	0.81	1.247	1
PCBs 59 + 62 + 75	9.49	BJ	4.96	208	0.80	1.262	1
PCB 42	25.8	BJ	7.52	208	0.68	1.271	1
PCBs 41 + 71 + 40	71.9	BJ	6.72	521	0.80	1.292	1
PCB 64	35.9	BJ	5.17	208	0.67	1.301	1
PCB 72	ND	U	5.19	521			1
PCB 68	ND	U	4.76	521			1
PCB 57	ND	U	5.46	521			1
PCB 58	ND	U	4.90	521			1
PCB 67	ND	U	4.73	521			1
PCB 63	ND	U	5.29	521			1
PCBs 70 + 61 + 74 + 76	109	BJ	4.95	521	0.74	0.888	1
PCB 66	58.2	BJ	5.13	521	0.69	0.897	1
PCB 55	ND	U	5.13	521			1
PCB 56	18.8	BJ	5.61	208	0.85	0.915	1
PCB 60	9.12	BJK	5.40	521	0.62	0.921	1
PCB 80	ND	U	4.70	521			1
PCB 79	ND	U	4.96	521			1
PCB 78	ND	U	6.00	521			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-8R
Lab Code: E0900543-004

Service Request: E0900543
Date Collected: 7/21/09 1425
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220025
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0046
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 81	ND	U	5.22	521			1
PCB 77	ND	U	5.29	521			1
PCB 104	ND	U	3.14	521			1
PCB 96	ND	U	2.70	521			1
PCB 103	9.21	J	3.39	521	1.66	1.082	1
PCB 94	ND	U	3.69	521			1
PCB 95	235	BJ	3.59	521	1.59	1.105	1
PCBs 93 + 100	7.57	JK	3.29	521	3.73	1.113	1
PCBs 98 + 102	24.9	J	3.67	521	1.39	1.118	1
PCBs 88 + 91	34.6	BJ	3.52	521	1.75	1.136	1
PCB 84	54.8	BJ	3.83	521	1.52	1.144	1
PCB 89	ND	U	5.12	521			1
PCB 121	ND	U	3.27	521			1
PCB 92	36.8	BJ	4.87	521	1.42	0.868	1
PCBs 90 + 101 + 113	146	BJ	4.01	1040	1.60	0.883	1
PCBs 83 + 99	80.7	BJ	4.47	521	1.36	0.897	1
PCB 112	ND	U	3.34	1040			1
PCBs 86 + 87 + 97 + 108 + 119 + 125	83.8	BJ	3.94	521	1.56	0.910	1
PCB 117	ND	U	3.50	208			1
PCBs 85 + 116	10.3	BJ	3.96	208	1.50	0.929	1
PCBs 110 + 115	172	BJ	3.47	1040	1.53	0.933	1
PCB 82	13.0	BJK	5.73	521	1.17	0.941	1
PCB 111	ND	U	3.36	1040			1
PCB 120	ND	U	3.34	521			1
PCBs 107 + 124	ND	U	3.01	1040			1
PCB 109	3.43	JK	2.70	208	1.21	0.998	1
PCB 123	ND	U	2.76	521			1
PCB 106	ND	U	3.15	521			1
PCB 118	73.0	BJ	2.55	521	1.49	1.000	1
PCB 122	ND	U	3.23	521			1
PCB 114	ND	U	2.77	521			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-8R
Lab Code: E0900543-004

Service Request: E0900543
Date Collected: 7/21/09 1425
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220025
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0046
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 105	30.3	BJ	2.76	208	1.54	1.001	1
PCB 127	ND	U	3.08	1040			1
PCB 126	ND	U	2.63	521			1
PCB 155	ND	U	2.01	1040			1
PCB 152	ND	U	1.92	1040			1
PCB 150	ND	U	1.81	1040			1
PCB 136	33.2	BJ	1.99	208	1.09	1.021	1
PCB 145	ND	U	1.86	1040			1
PCB 148	ND	U	2.68	1040			1
PCBs 135 + 151	77.8	BJK	2.64	521	1.04	1.090	1
PCB 154	6.62	J	2.18	521	1.38	1.098	1
PCB 144	9.23	JK	2.72	521	1.45	1.106	1
PCBs 147 + 149	148	BJ	2.68	521	1.25	1.117	1
PCB 134	8.02	JK	3.38	521	0.92	1.123	1
PCB 143	ND	U	3.20	521			1
PCBs 139 + 140	ND	U	2.58	521			1
PCB 131	ND	U	3.19	521			1
PCB 142	ND	U	3.20	1040			1
PCB 132	59.1	BJ	2.92	521	1.11	1.153	1
PCB 133	ND	U	3.02	521			1
PCB 165	ND	U	2.11	1040			1
PCB 146	26.6	BJ	2.37	521	1.23	0.895	1
PCB 161	ND	U	2.20	1040			1
PCBs 153 + 168	142	BJ	2.22	521	1.33	0.908	1
PCB 141	24.5	BJ	2.68	208	1.39	0.913	1
PCB 130	5.81	JK	3.27	521	1.97	0.921	1
PCB 137	7.21	J	2.69	1040	1.41	0.927	1
PCB 164	10.3	J	2.06	521	1.27	0.929	1
PCBs 129 + 138 + 163	173	BJ	2.60	521	1.29	0.936	1
PCB 160	ND	U	2.07	521			1
PCB 158	14.4	BJK	1.87	208	0.96	0.944	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-8R
Lab Code: E0900543-004

Service Request: E0900543
Date Collected: 7/21/09 1425
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220025
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0046
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 128 + 166	24.4	BJ	2.43	521	1.27	0.963	1
PCB 159	ND	U	2.73	1040			1
PCB 162	ND	U	2.43	1040			1
PCB 167	3.66	JK	2.48	521	0.71	1.001	1
PCBs 156 + 157	14.4	BJ	3.13	521	1.43	1.000	1
PCB 169	ND	U	2.59	521			1
PCB 188	ND	U	1.48	521			1
PCB 179	19.2	BJ	1.48	521	1.07	1.009	1
PCB 184	ND	U	1.34	1040			1
PCB 176	3.35	JK	1.50	1040	0.62	1.031	1
PCB 186	ND	U	1.42	1040			1
PCB 178	8.07	J	2.03	521	1.14	1.076	1
PCB 175	ND	U	1.91	1040			1
PCB 187	48.7	BJ	1.67	521	0.89	1.098	1
PCB 182	ND	U	1.77	1040			1
PCB 183	18.7	J	4.17	1040	0.94	1.113	1
PCB 185	4.62	JK	4.22	1040	1.44	1.117	1
PCB 174	27.1	BJ	4.22	521	0.94	1.120	1
PCB 177	12.9	J	4.31	521	0.96	1.130	1
PCB 181	ND	U	4.14	1040			1
PCBs 171 + 173	8.18	J	4.69	1040	0.97	1.146	1
PCB 172	ND	U	4.67	1040			1
PCB 192	ND	U	3.35	1040			1
PCBs 180 + 193	62.9	BJ	3.50	521	0.95	0.918	1
PCB 191	ND	U	3.38	1040			1
PCB 170	27.6	J	4.70	521	1.15	0.942	1
PCB 190	ND	U	3.10	521			1
PCB 189	ND	U	3.30	521			1
PCB 202	10.0	BJ	2.04	1040	1.01	1.001	1
PCB 201	4.33	BJK	1.93	1040	1.54	1.021	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-8R
Lab Code: E0900543-004

Service Request: E0900543
Date Collected: 7/21/09 1425
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220025
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0046
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 204	ND	U	1.96	1040			1
PCB 197	ND	U	1.79	1040			1
PCB 200	3.01	JK	1.93	1040	1.49	1.042	1
PCBs 198 + 199	34.9	BJ	2.50	521	0.89	1.103	1
PCB 196	9.16	BJK	2.61	1040	0.71	0.923	1
PCB 203	20.3	BJ	2.20	1040	0.90	0.927	1
PCB 195	4.85	J	2.66	1040	0.97	0.950	1
PCB 194	20.6	BJ	2.48	521	0.83	0.992	1
PCB 205	ND	U	1.91	1040			1
PCB 208	17.8	BJ	3.11	1040	0.88	1.000	1
PCB 207	6.31	JK	3.83	1040	0.91	1.018	1
PCB 206	50.3	BJ	6.45	1040	0.72	1.001	1
PCB 209	26.4	BJ	2.91	521	1.26	1.000	1
Total MonoCB	ND	U	8.59	208			1
Total DiCB	1220		33.7	521			1
Total TriCB	606		11.4	521			1
Total TetraCB	1210		4.70	521			1
Total PentaCB	1020	J	2.55	1040			1
Total HexaCB	788	J	1.81	1040			1
Total HeptaCB	241	J	1.34	1040			1
Total OctaCB	107	J	1.79	1040			1
Total NonaCB	74.4	J	3.11	1040			1
Total PCBs	5290		1.34	1040			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: MWCL-8R
Lab Code: E0900543-004

Service Request: E0900543
Date Collected: 7/21/09 1425
Date Received: 7/23/09
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220025
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0046
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	2000	275.770	14	Y	15-150	3.25	0.743
PCB 3L	2000	300.165	15		15-150	3.14	0.872
PCB 4L	2000	358.867	18	Y	25-150	1.50	0.886
PCB 15L	2000	480.996	24	Y	25-150	1.53	1.222
PCB 19L	2000	400.959	20	Y	25-150	1.02	1.065
PCB 37L	2000	661.000	33		25-150	1.02	1.080
PCB 54L	2000	408.775	20	Y	25-150	0.79	0.832
PCB 81L	2000	855.357	43		25-150	0.77	1.324
PCB 77L	2000	867.122	43		25-150	0.79	1.344
PCB 104L	2000	626.148	31		25-150	1.54	0.829
PCB 123L	2000	778.164	39		25-150	1.55	1.133
PCB 118L	2000	817.566	41		25-150	1.55	1.143
PCB 114L	2000	746.091	37		25-150	1.56	1.158
PCB 105L	2000	786.429	39		25-150	1.54	1.176
PCB 126L	2000	845.312	42		25-150	1.55	1.264
PCB 155L	2000	849.825	42		25-150	1.19	0.807
PCB 167L	2000	792.517	40		25-150	1.25	1.069
PCBs 156L + 157L	4000	1640.773	41		25-150	1.25	1.096
PCB 169L	2000	821.060	41		25-150	1.27	1.171
PCB 188L	2000	870.856	44		25-150	1.03	0.735
PCB 189L	2000	745.208	37		25-150	1.03	0.962
PCB 202L	2000	819.326	41		25-150	0.90	0.833
PCB 205L	2000	850.138	43		25-150	0.90	1.009
PCB 208L	2000	902.991	45		25-150	0.77	0.953
PCB 206L	2000	730.975	37		25-150	0.78	1.040
PCB 209L	2000	784.294	39		25-150	1.19	1.069
PCB 28L	2000	470.395	24	Y	30-135	1.04	0.933
PCB 111L	2000	833.835	42		30-135	1.55	1.076
PCB 178L	2000	907.978	45		30-135	1.02	1.010

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220026
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0154
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	5670	B	6.16	208	3.10	1.000	1
PCB 2	298		5.91	10.4	2.94	0.989	1
PCB 3	1120	B	5.57	208	3.13	1.001	1
PCB 4	63700		41.7	521	1.55	1.002	1
PCB 10	1240		21.7	52.1	1.54	1.013	1
PCB 9	2510		27.0	52.1	1.58	1.131	1
PCB 7	699		25.0	52.1	1.44	1.141	1
PCB 6	20400		26.9	52.1	1.53	1.157	1
PCB 5	ND	U	26.1	52.1			1
PCB 8	76800	B	25.7	521	1.52	1.185	1
PCB 14	ND	U	26.1	104			1
PCB 11	11300	B	27.1	208	1.55	0.973	1
PCBs 12 + 13	3600		25.9	104	1.52	0.986	1
PCB 15	51400		23.1	521	1.54	1.001	1
PCB 19	91500		20.9	104	1.00	1.001	1
PCBs 18 + 30	816000	BE	12.1	521	0.99	1.100	1
PCB 17	309000	B	13.9	208	0.98	1.122	1
PCB 27	42300		10.6	208	0.99	1.132	1
PCB 24	ND	U	10.4	208			1
PCB 16	386000	B	18.6	104	1.00	1.146	1
PCB 32	281000	B	9.60	208	1.00	1.173	1
PCB 34	1610		375	208	1.01	1.238	1
PCB 23	ND	U	354	208			1
PCBs 26 + 29	383000	B	342	208	0.98	1.262	1
PCB 25	36700		335	208	1.00	0.844	1
PCB 31	922000	BE	363	521	0.99	0.855	1
PCBs 20 + 28	818000	BE	340	521	1.01	0.863	1
PCBs 21 + 33	523000	BE	365	208	0.99	0.873	1
PCB 22	502000	BE	361	208	0.99	0.887	1
PCB 36	ND	U	363	208			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220026
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0154
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 39	7320	K	341	208	0.87	0.954	1
PCB 38	ND	U	412	208			1
PCB 35	2980		432	208	1.05	0.987	1
PCB 37	298000	B	404	521	0.97	1.001	1
PCB 54	6260		3.28	521	0.72	1.001	1
PCBs 50 + 53	369000	B	2.47	208	0.76	1.098	1
PCBs 45 + 51	460000	BE	2.56	208	0.76	1.127	1
PCB 46	170000		2.91	208	0.76	1.141	1
PCB 52	1450000	BEK	2.60	521	0.90	1.204	1
PCBs 43 + 73	80300		2.36	521	0.83	1.214	1
PCBs 49 + 69	1040000	BEK	2.35	521	0.91	1.226	1
PCB 48	587000	BE	2.53	208	0.82	1.238	1
PCBs 44 + 47 + 65	1420000	BEK	2.42	521	0.94	1.245	1
PCBs 59 + 62 + 75	152000	BK	2.05	208	1.02	1.262	1
PCB 42	708000	BE	3.11	208	0.87	1.271	1
PCBs 41 + 71 + 40	1220000	BEK	2.77	521	0.95	1.293	1
PCB 64	802000	BEK	2.14	208	0.97	1.303	1
PCB 72	ND	U	2.15	521			1
PCB 68	ND	U	1.97	521			1
PCB 57	12100		2.26	521	0.78	0.861	1
PCB 58	19100		2.03	521	0.82	0.864	1
PCB 67	ND	U	1.96	521			1
PCB 63	ND	U	2.19	521			1
PCBs 70 + 61 + 74 + 76	852000	BEK	2.05	521	0.97	0.888	1
PCB 66	326000	BK	2.12	521	0.99	0.897	1
PCB 55	ND	U	2.12	521			1
PCB 56	981000	BE	576	208	0.87	0.917	1
PCB 60	606000	BE	554	521	0.87	0.923	1
PCB 80	2860	K	483	521	0.60	0.929	1
PCB 79	9320		509	521	0.74	0.974	1
PCB 78	ND	U	615	521			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220026
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0154
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 81	10000		530	521	0.77	1.001	1
PCB 77	224000		593	521	0.75	1.001	1
PCB 104	ND	U	1.82	521			1
PCB 96	29300		1.63	521	1.57	1.014	1
PCB 103	7250		2.05	521	1.57	1.081	1
PCB 94	14300		2.23	521	1.57	1.089	1
PCB 95	881000	BE	2.17	521	1.50	1.105	1
PCBs 93 + 100	28500		1.99	521	1.54	1.113	1
PCBs 98 + 102	102000		2.22	521	1.55	1.117	1
PCBs 88 + 91	244000	B	2.13	521	1.54	1.135	1
PCB 84	431000	BE	2.31	521	1.56	1.144	1
PCB 89	54800		57.8	521	1.57	1.160	1
PCB 121	ND	U	36.9	521			1
PCB 92	185000	B	55.0	521	1.56	0.869	1
PCBs 90 + 101 + 113	807000	BE	45.3	1040	1.36	0.884	1
PCBs 83 + 99	770000	BE	50.5	521	1.56	0.898	1
PCB 112	ND	U	37.7	1040			1
PCBs 86 + 87 + 97 + 108 + 119 + 125	994000	BE	44.5	521	1.57	0.913	1
PCB 117	60000		39.6	208	1.41	0.927	1
PCBs 85 + 116	404000	B	44.7	208	1.54	0.929	1
PCBs 110 + 115	830000	BEK	39.2	1040	1.22	0.933	1
PCB 82	341000	B	64.7	521	1.54	0.941	1
PCB 111	204	J	38.0	1040	1.54	0.951	1
PCB 120	992		37.7	521	1.62	0.963	1
PCBs 107 + 124	46100		237	1040	1.59	0.991	1
PCB 109	75400		213	208	1.56	0.997	1
PCB 123	33300		211	521	1.60	1.000	1
PCB 106	ND	U	248	521			1
PCB 118	594000	BEK	214	521	1.25	1.000	1
PCB 122	23900		254	521	1.58	1.009	1
PCB 114	51800		210	521	1.57	1.001	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220026
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0154
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 105	566000	BE	217	208	1.41	1.001	1
PCB 127	509	J	243	1040	1.55	1.037	1
PCB 126	4260		201	521	1.56	1.001	1
PCB 155	ND	U	19.5	1040			1
PCB 152	515	JK	20.2	1040	0.99	1.007	1
PCB 150	245	J	19.0	1040	1.07	1.011	1
PCB 136	42300	B	21.0	208	1.13	1.021	1
PCB 145	192	J	19.6	1040	1.18	1.030	1
PCB 148	108	J	28.2	1040	1.17	1.074	1
PCBs 135 + 151	111000	B	27.7	521	1.15	1.091	1
PCB 154	1530		23.0	521	1.15	1.098	1
PCB 144	18500		28.6	521	1.12	1.107	1
PCBs 147 + 149	222000	B	167	521	1.24	1.117	1
PCB 134	20000		211	521	1.22	1.123	1
PCB 143	ND	U	199	521			1
PCBs 139 + 140	4630		161	521	1.25	1.134	1
PCB 131	4900		199	521	1.25	1.140	1
PCB 142	ND	U	200	1040			1
PCB 132	107000	B	182	521	1.24	1.154	1
PCB 133	2850		188	521	1.26	1.167	1
PCB 165	ND	U	132	1040			1
PCB 146	30800	B	148	521	1.24	0.895	1
PCB 161	ND	U	137	1040			1
PCBs 153 + 168	221000	B	138	521	1.25	0.909	1
PCB 141	65200	B	167	208	1.24	0.913	1
PCB 130	19900		204	521	1.24	0.922	1
PCB 137	17800		167	1040	1.24	0.927	1
PCB 164	19500		128	521	1.25	0.929	1
PCBs 129 + 138 + 163	317000	B	162	521	1.25	0.936	1
PCB 160	ND	U	129	521			1
PCB 158	28300	B	116	208	1.24	0.944	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220026
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0154
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 128 + 166	50800	B	151	521	1.23	0.963	1
PCB 159	2050		44.4	1040	1.06	0.984	1
PCB 162	620	J	39.7	1040	1.24	0.990	1
PCB 167	9660		39.9	521	1.18	1.001	1
PCBs 156 + 157	37300	B	53.9	521	1.20	1.000	1
PCB 169	156	JK	44.4	521	1.91	1.003	1
PCB 188	ND	U	9.43	521			1
PCB 179	35600	B	9.42	521	0.96	1.009	1
PCB 184	ND	U	8.50	1040			1
PCB 176	10700		9.54	1040	0.97	1.031	1
PCB 186	ND	U	9.03	1040			1
PCB 178	16700		12.9	521	0.97	1.076	1
PCB 175	3280		12.2	1040	0.92	1.091	1
PCB 187	92500	B	10.7	521	0.95	1.098	1
PCB 182	72.3	J	11.3	1040	0.96	1.102	1
PCB 183	43400		63.3	1040	1.02	1.113	1
PCB 185	8880	K	64.2	1040	0.85	1.115	1
PCB 174	75300	B	64.1	521	0.97	1.119	1
PCB 177	39800		65.4	521	1.01	1.130	1
PCB 181	ND	U	62.9	1040			1
PCBs 171 + 173	21400		71.3	1040	0.99	1.145	1
PCB 172	13000		71.0	1040	0.97	0.907	1
PCB 192	ND	U	50.9	1040			1
PCBs 180 + 193	167000	B	53.1	521	0.99	0.918	1
PCB 191	2880		51.4	1040	0.97	0.925	1
PCB 170	79500		71.5	521	0.97	0.942	1
PCB 190	14800		47.2	521	0.97	0.952	1
PCB 189	3260		49.8	521	0.98	1.000	1
PCB 202	8450	B	6.44	1040	0.84	1.000	1
PCB 201	5770	B	6.14	1040	0.83	1.021	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220026
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0154
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 204	ND	U	6.23	1040			1
PCB 197	1500		5.70	1040	0.91	1.040	1
PCB 200	5810		6.13	1040	0.82	1.043	1
PCBs 198 + 199	50000	B	7.98	521	0.83	1.103	1
PCB 196	25500	B	8.32	1040	0.84	0.923	1
PCB 203	28800	B	7.01	1040	0.84	0.927	1
PCB 195	20800		8.49	1040	0.84	0.950	1
PCB 194	60200	B	7.92	521	0.85	0.992	1
PCB 205	2960		6.13	1040	0.85	1.000	1
PCB 208	2910	B	2.01	1040	0.76	1.000	1
PCB 207	2150		2.38	1040	0.77	1.018	1
PCB 206	17600	B	4.82	1040	0.76	1.000	1
PCB 209	531	B	1.57	521	1.17	1.000	1
Total MonoCB	7090		5.57	208			1
Total DiCB	232000		21.7	521			1
Total TriCB	5420000		9.60	521			1
Total TetraCB	11500000		1.96	521			1
Total PentaCB	7580000		1.63	1040			1
Total HexaCB	1360000		19.0	1040			1
Total HeptaCB	629000		8.50	1040			1
Total OctaCB	210000		5.70	1040			1
Total NonaCB	22600		2.01	1040			1
Total PCBs	27000000		1.57	1040			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220026
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0154
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	2000	395.321	20		15-150	3.00	0.743
PCB 3L	2000	573.171	29		15-150	3.16	0.871
PCB 4L	2000	651.890	33		25-150	1.50	0.885
PCB 15L	2000	1007.116	50		25-150	1.53	1.222
PCB 19L	2000	774.052	39		25-150	0.99	1.065
PCB 37L	2000	1185.626	59		25-150	0.99	1.079
PCB 54L	2000	846.096	42		25-150	0.77	0.831
PCB 81L	2000	1277.738	64		25-150	0.79	1.322
PCB 77L	2000	1199.080	60		25-150	0.80	1.342
PCB 104L	2000	1235.874	62		25-150	1.40	0.829
PCB 123L	2000	1251.194	63		25-150	1.50	1.133
PCB 118L	2000	1368.631	68		25-150	1.53	1.143
PCB 114L	2000	1175.806	59		25-150	1.52	1.157
PCB 105L	2000	1316.382	66		25-150	1.52	1.176
PCB 126L	2000	1356.909	68		25-150	1.54	1.263
PCB 155L	2000	1192.696	60		25-150	1.20	0.807
PCB 167L	2000	1200.166	60		25-150	1.27	1.070
PCBs 156L + 157L	4000	2447.923	61		25-150	1.31	1.097
PCB 169L	2000	1220.109	61		25-150	1.29	1.171
PCB 188L	2000	1116.706	56		25-150	1.02	0.736
PCB 189L	2000	1048.919	52		25-150	1.04	0.962
PCB 202L	2000	1089.651	54		25-150	0.89	0.833
PCB 205L	2000	1175.572	59		25-150	0.89	1.009
PCB 208L	2000	1162.697	58		25-150	0.78	0.954
PCB 206L	2000	1017.675	51		25-150	0.78	1.040
PCB 209L	2000	1048.400	52		25-150	1.18	1.069
PCB 28L	2000	926.566	46		30-135	1.06	0.933
PCB 111L	2000	1235.051	62		30-135	1.58	1.077
PCB 178L	2000	1280.637	64		30-135	1.04	1.011

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005
Run Type: Dilution

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220047
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1841
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	5990	BJK	1510	20800	2.62	1.001	100
PCB 2	ND	U	1470	1040			100
PCB 3	ND	U	1330	20800			100
PCB 4	69400		25000	52100	1.34	1.001	100
PCB 10	ND	U	16100	5210			100
PCB 9	ND	U	5870	5210			100
PCB 7	ND	U	5420	5210			100
PCB 6	24200		5850	5210	1.39	1.156	100
PCB 5	ND	U	5680	5210			100
PCB 8	92300	B	5570	52100	1.35	1.184	100
PCB 14	ND	U	5670	10400			100
PCB 11	ND	U	5890	20800			100
PCBs 12 + 13	ND	U	5640	10400			100
PCB 15	56300		5180	52100	1.40	1.001	100
PCB 19	107000		3540	10400	0.98	1.001	100
PCBs 18 + 30	1580000	B	2710	52100	0.99	1.099	100
PCB 17	504000	B	3100	20800	0.97	1.122	100
PCB 27	66900		2360	20800	0.96	1.132	100
PCB 24	ND	U	2310	20800			100
PCB 16	626000	B	4160	10400	0.97	1.145	100
PCB 32	469000	B	2150	20800	0.99	1.173	100
PCB 34	ND	U	2080	20800			100
PCB 23	ND	U	1960	20800			100
PCBs 26 + 29	539000	B	1900	20800	1.00	1.261	100
PCB 25	51600		1860	20800	0.93	0.845	100
PCB 31	2290000	B	2010	52100	1.02	0.855	100
PCBs 20 + 28	1870000	B	1890	52100	0.98	0.865	100
PCBs 21 + 33	798000	B	2030	20800	1.03	0.873	100
PCB 22	740000	B	2000	20800	1.00	0.887	100
PCB 36	ND	U	2020	20800			100

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005
Run Type: Dilution

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220047
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1841
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 39	15300	J	1890	20800	0.99	0.953	100
PCB 38	ND	U	2280	20800			100
PCB 35	3530	JK	2400	20800	0.68	0.987	100
PCB 37	419000	B	2170	52100	1.00	1.001	100
PCB 54	8130	J	781	52100	0.69	1.002	100
PCBs 50 + 53	545000	B	4200	20800	0.76	1.098	100
PCBs 45 + 51	709000	B	4360	20800	0.76	1.127	100
PCB 46	251000		4960	20800	0.77	1.141	100
PCB 52	4250000	B	4420	52100	0.75	1.204	100
PCBs 43 + 73	126000		4010	52100	0.75	1.214	100
PCBs 49 + 69	2500000	B	4010	52100	0.75	1.225	100
PCB 48	976000	B	4310	20800	0.75	1.238	100
PCBs 44 + 47 + 65	4110000	B	4130	52100	0.75	1.247	100
PCBs 59 + 62 + 75	316000	B	3490	20800	0.75	1.262	100
PCB 42	1270000	B	5290	20800	0.74	1.271	100
PCBs 41 + 71 + 40	2780000	B	4730	52100	0.76	1.292	100
PCB 64	2210000	B	3640	20800	0.76	1.302	100
PCB 72	16100	J	3650	52100	0.82	0.841	100
PCB 68	6980	BJK	3350	52100	1.10	0.849	100
PCB 57	27000	J	3840	52100	0.85	0.861	100
PCB 58	4710	JK	3450	52100	0.92	0.867	100
PCB 67	69600		3330	52100	0.77	0.871	100
PCB 63	174000		3720	52100	0.77	0.879	100
PCBs 70 + 61 + 74 + 76	7100000	B	3490	52100	0.75	0.888	100
PCB 66	4490000	B	3610	52100	0.76	0.897	100
PCB 55	6440	J	3610	52100	0.81	0.901	100
PCB 56	1820000	B	4460	20800	0.76	0.915	100
PCB 60	1070000	B	4290	52100	0.75	0.921	100
PCB 80	ND	U	3740	52100			100
PCB 79	16000	J	3940	52100	0.65	0.973	100
PCB 78	ND	U	4770	52100			100

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005
Run Type: Dilution

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220047
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1841
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 81	13600	J	4360	52100	0.79	1.000	100
PCB 77	294000		4970	52100	0.76	1.000	100
PCB 104	ND	U	788	52100			100
PCB 96	45300	J	1060	52100	1.49	1.014	100
PCB 103	12600	J	1320	52100	1.56	1.082	100
PCB 94	24200	J	1440	52100	1.54	1.089	100
PCB 95	1490000	B	1400	52100	1.54	1.105	100
PCBs 93 + 100	35600	J	1280	52100	1.49	1.113	100
PCBs 98 + 102	167000		1430	52100	1.57	1.118	100
PCBs 88 + 91	478000	B	1380	52100	1.57	1.135	100
PCB 84	766000	B	1500	52100	1.58	1.143	100
PCB 89	81400		825	52100	1.53	1.160	100
PCB 121	ND	U	527	52100			100
PCB 92	267000	B	786	52100	1.59	0.868	100
PCBs 90 + 101 + 113	1380000	B	646	104000	1.52	0.883	100
PCBs 83 + 99	1190000	B	721	52100	1.56	0.898	100
PCB 112	ND	U	538	104000			100
PCBs 86 + 87 + 97 + 108 + 119 + 125	1490000	B	635	52100	1.53	0.913	100
PCB 117	ND	U	565	20800			100
PCBs 85 + 116	607000	B	639	20800	1.58	0.929	100
PCBs 110 + 115	1980000	B	560	104000	1.57	0.933	100
PCB 82	506000	B	924	52100	1.55	0.941	100
PCB 111	ND	U	542	104000			100
PCB 120	ND	U	538	52100			100
PCBs 107 + 124	53500	J	744	104000	1.56	0.992	100
PCB 109	88600		669	20800	1.59	0.998	100
PCB 123	42100	J	798	52100	1.61	1.001	100
PCB 106	ND	U	780	52100			100
PCB 118	1040000	B	679	52100	1.59	1.000	100
PCB 122	26400	J	798	52100	1.59	1.009	100
PCB 114	70200		853	52100	1.62	1.001	100

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005
Run Type: Dilution

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220047
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1841
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 105	811000	B	789	20800	1.54	1.001	100
PCB 127	ND	U	763	104000			100
PCB 126	5030	J	859	52100	1.65	1.000	100
PCB 155	ND	U	407	104000			100
PCB 152	1360	J	572	104000	1.26	1.007	100
PCB 150	ND	U	537	104000			100
PCB 136	77000	B	592	20800	1.15	1.022	100
PCB 145	ND	U	553	104000			100
PCB 148	ND	U	795	104000			100
PCBs 135 + 151	189000	B	784	52100	1.10	1.091	100
PCB 154	2290	JK	649	52100	0.96	1.098	100
PCB 144	31900	J	809	52100	1.10	1.108	100
PCBs 147 + 149	358000	B	1310	52100	1.24	1.118	100
PCB 134	28900	J	1650	52100	1.25	1.123	100
PCB 143	2880	J	1560	52100	1.22	1.126	100
PCBs 139 + 140	8370	J	1260	52100	1.10	1.135	100
PCB 131	8020	J	1560	52100	1.14	1.141	100
PCB 142	ND	U	1560	104000			100
PCB 132	169000	B	1430	52100	1.23	1.154	100
PCB 133	4630	J	1470	52100	1.38	1.168	100
PCB 165	ND	U	1030	104000			100
PCB 146	48400	BJ	1150	52100	1.25	0.895	100
PCB 161	ND	U	1080	104000			100
PCBs 153 + 168	338000	B	1080	52100	1.24	0.908	100
PCB 141	97800	B	1310	20800	1.24	0.913	100
PCB 130	28300	J	1600	52100	1.18	0.922	100
PCB 137	24900	J	1310	104000	1.23	0.927	100
PCB 164	29900	J	1000	52100	1.26	0.929	100
PCBs 129 + 138 + 163	466000	B	1270	52100	1.23	0.936	100
PCB 160	ND	U	1010	52100			100
PCB 158	40500	B	907	20800	1.31	0.944	100

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005
Run Type: Dilution

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220047
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1841
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 128 + 166	71600	B	1180	52100	1.25	0.963	100
PCB 159	3310	J	640	104000	1.39	0.984	100
PCB 162	671	JK	571	104000	0.89	0.990	100
PCB 167	12400	J	638	52100	1.33	1.001	100
PCBs 156 + 157	47900	BJ	839	52100	1.16	1.000	100
PCB 169	ND	U	853	52100			100
PCB 188	ND	U	368	52100			100
PCB 179	62800	B	456	52100	0.96	1.009	100
PCB 184	ND	U	411	104000			100
PCB 176	18900	J	461	104000	0.99	1.031	100
PCB 186	ND	U	437	104000			100
PCB 178	27400	J	623	52100	0.94	1.076	100
PCB 175	4610	JK	588	104000	0.86	1.091	100
PCB 187	152000	B	513	52100	0.94	1.098	100
PCB 182	ND	U	543	104000			100
PCB 183	68800	J	804	104000	1.00	1.113	100
PCB 185	10100	JK	815	104000	1.30	1.115	100
PCB 174	116000	B	814	52100	1.02	1.119	100
PCB 177	61000		831	52100	0.95	1.130	100
PCB 181	ND	U	799	104000			100
PCBs 171 + 173	31700	J	905	104000	1.00	1.145	100
PCB 172	17700	J	902	104000	1.08	0.906	100
PCB 192	ND	U	646	104000			100
PCBs 180 + 193	226000	B	675	52100	0.97	0.919	100
PCB 191	3620	JK	653	104000	0.85	0.925	100
PCB 170	102000		908	52100	0.95	0.942	100
PCB 190	18400	J	599	52100	0.98	0.952	100
PCB 189	5230	J	902	52100	1.03	1.001	100
PCB 202	13200	BJ	630	104000	0.82	1.001	100
PCB 201	9910	BJ	694	104000	0.81	1.021	100

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005
Run Type: Dilution

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220047
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1841
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 204	ND	U	704	104000			100
PCB 197	ND	U	644	104000			100
PCB 200	11400	J	693	104000	0.80	1.043	100
PCBs 198 + 199	77300	B	902	52100	0.94	1.103	100
PCB 196	36000	BJ	941	104000	0.79	0.923	100
PCB 203	39300	BJ	793	104000	0.85	0.927	100
PCB 195	27900	J	960	104000	0.83	0.950	100
PCB 194	71700	B	895	52100	0.86	0.992	100
PCB 205	4280	J	832	104000	0.96	1.000	100
PCB 208	4410	BJ	597	104000	0.71	1.000	100
PCB 207	3740	J	826	104000	0.67	1.018	100
PCB 206	27100	BJ	1840	104000	0.76	1.000	100
PCB 209	ND	U	1500	52100			100
Total MonoCB	5990	J	1330	20800			100
Total DiCB	242000		5180	52100			100
Total TriCB	10100000		1860	52100			100
Total TetraCB	35200000		781	52100			100
Total PentaCB	12700000		527	104000			100
Total HexaCB	2090000		407	104000			100
Total HeptaCB	927000		368	104000			100
Total OctaCB	291000		630	104000			100
Total NonaCB	35300	J	597	104000			100
Total PCBs	61500000		368	104000			100

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW2
Lab Code: E0900543-005
Run Type: Dilution

Service Request: E0900543
Date Collected: 7/22/09 1230
Date Received: 7/23/09
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 960mL
Data File Name: U220047
ICAL Date: 05/01/08

Date Analyzed: 8/7/09 1841
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220040

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	10000	1855.340	19		15-150	3.03	0.743
PCB 3L	6900	1844.798	27		15-150	3.06	0.872
PCB 4L	6060	2181.521	36		25-150	1.50	0.886
PCB 15L	4000	1923.140	48		25-150	1.55	1.222
PCB 19L	5130	2062.604	40		25-150	0.99	1.065
PCB 37L	3390	1639.724	48		25-150	1.01	1.080
PCB 54L	4760	2056.069	43		25-150	0.76	0.832
PCB 81L	3130	1680.704	54		25-150	0.78	1.323
PCB 77L	3330	1609.449	48		25-150	0.77	1.343
PCB 104L	3230	2016.141	63		25-150	1.55	0.829
PCB 123L	3170	1522.573	48		25-150	1.53	1.133
PCB 118L	2940	1565.905	53		25-150	1.56	1.143
PCB 114L	3390	1426.837	42		25-150	1.56	1.158
PCB 105L	3030	1447.956	48		25-150	1.52	1.176
PCB 126L	2940	1402.053	48		25-150	1.54	1.264
PCB 155L	3330	2345.366	70		25-150	1.24	0.807
PCB 167L	3330	1557.800	47		25-150	1.27	1.070
PCBs 156L + 157L	6560	3076.429	47		25-150	1.24	1.097
PCB 169L	3280	1295.952	40		25-150	1.25	1.172
PCB 188L	3570	2860.109	80		25-150	1.04	0.736
PCB 189L	3850	1647.103	43		25-150	1.03	0.962
PCB 202L	3700	2473.142	67		25-150	0.89	0.833
PCB 205L	3390	1806.095	53		25-150	0.88	1.008
PCB 208L	3450	2204.195	64		25-150	0.78	0.954
PCB 206L	3920	1546.637	39		25-150	0.77	1.040
PCB 209L	3850	1468.036	38		25-150	1.20	1.069
PCB 28L	4350	0	0	Y	30-135		
PCB 111L	3230	13.286	0	Y	30-135	1.36	1.077
PCB 178L	3130	37.903	1	Y	30-135	1.14	1.011

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW3
Lab Code: E0900543-006

Service Request: E0900543
Date Collected: 7/22/09 1056
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 630mL
Data File Name: U220027
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0302
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	27.9	BJ	12.4	317	2.96	1.000	1
PCB 2	ND	U	13.8	15.9			1
PCB 3	45.4	BJ	14.7	317	2.82	1.001	1
PCB 4	ND	U	111	794			1
PCB 10	ND	U	67.4	79.4			1
PCB 9	ND	U	41.3	79.4			1
PCB 7	ND	U	38.2	79.4			1
PCB 6	ND	U	41.2	79.4			1
PCB 5	ND	U	39.9	79.4			1
PCB 8	257	BJK	39.2	794	1.28	1.185	1
PCB 14	ND	U	39.9	159			1
PCB 11	2090	B	41.4	317	1.52	0.973	1
PCBs 12 + 13	ND	U	39.6	159			1
PCB 15	147	J	39.1	794	1.61	1.001	1
PCB 19	87.7	JK	50.1	159	0.86	1.002	1
PCBs 18 + 30	1010	B	24.7	794	0.97	1.100	1
PCB 17	361	B	28.3	317	1.02	1.122	1
PCB 27	48.2	J	21.6	317	1.02	1.133	1
PCB 24	ND	U	21.1	317			1
PCB 16	469	BK	38.0	159	0.87	1.147	1
PCB 32	349	B	19.6	317	1.01	1.173	1
PCB 34	ND	U	22.7	317			1
PCB 23	ND	U	21.4	317			1
PCBs 26 + 29	460	B	20.7	317	0.98	1.262	1
PCB 25	37.5	JK	20.3	317	0.65	0.845	1
PCB 31	2130	B	22.0	794	1.03	0.855	1
PCBs 20 + 28	1780	B	20.6	794	1.00	0.865	1
PCBs 21 + 33	859	B	22.1	317	0.98	0.873	1
PCB 22	828	B	21.9	317	0.99	0.887	1
PCB 36	ND	U	22.0	317			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW3
Lab Code: E0900543-006

Service Request: E0900543
Date Collected: 7/22/09 1056
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 630mL
Data File Name: U220027
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0302
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 39	ND	U	20.6	317			1
PCB 38	ND	U	25.0	317			1
PCB 35	ND	U	26.2	317			1
PCB 37	595	BJ	23.5	794	0.98	1.001	1
PCB 54	ND	U	37.5	794			1
PCBs 50 + 53	396	B	25.1	317	0.80	1.098	1
PCBs 45 + 51	526	B	26.0	317	0.79	1.127	1
PCB 46	209	J	29.6	317	0.71	1.142	1
PCB 52	3160	B	26.4	794	0.75	1.204	1
PCBs 43 + 73	70.6	J	24.0	794	0.66	1.215	1
PCBs 49 + 69	1840	B	24.0	794	0.77	1.226	1
PCB 48	711	B	25.8	317	0.78	1.238	1
PCBs 44 + 47 + 65	3460	B	24.7	794	0.78	1.247	1
PCBs 59 + 62 + 75	265	BJ	20.9	317	0.83	1.262	1
PCB 42	1100	B	31.6	317	0.78	1.271	1
PCBs 41 + 71 + 40	2500	B	28.3	794	0.78	1.292	1
PCB 64	1950	B	21.7	317	0.77	1.302	1
PCB 72	ND	U	21.8	794			1
PCB 68	ND	U	20.0	794			1
PCB 57	ND	U	23.0	794			1
PCB 58	25.7	JK	20.6	794	0.93	0.865	1
PCB 67	47.6	J	19.9	794	0.71	0.872	1
PCB 63	143	J	22.2	794	0.68	0.879	1
PCBs 70 + 61 + 74 + 76	6990	B	20.8	794	0.76	0.888	1
PCB 66	4680	B	21.6	794	0.76	0.897	1
PCB 55	ND	U	21.6	794			1
PCB 56	2300	B	18.9	317	0.74	0.916	1
PCB 60	1320	B	18.2	794	0.76	0.922	1
PCB 80	ND	U	15.9	794			1
PCB 79	ND	U	16.7	794			1
PCB 78	ND	U	20.2	794			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW3
Lab Code: E0900543-006

Service Request: E0900543
Date Collected: 7/22/09 1056
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 630mL
Data File Name: U220027
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0302
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 81	ND	U	17.0	794			1
PCB 77	409	J	17.2	794	0.71	1.001	1
PCB 104	ND	U	14.3	794			1
PCB 96	32.9	JK	12.1	794	1.17	1.015	1
PCB 103	ND	U	15.1	794			1
PCB 94	ND	U	16.5	794			1
PCB 95	1310	B	16.0	794	1.60	1.105	1
PCBs 93 + 100	24.9	JK	14.7	794	2.04	1.114	1
PCBs 98 + 102	119	J	16.4	794	1.68	1.118	1
PCBs 88 + 91	395	BJ	15.7	794	1.58	1.135	1
PCB 84	756	BJ	17.1	794	1.53	1.143	1
PCB 89	67.5	J	14.4	794	1.55	1.159	1
PCB 121	ND	U	9.15	794			1
PCB 92	242	BJ	13.7	794	1.47	0.868	1
PCBs 90 + 101 + 113	1280	BJ	11.3	1590	1.59	0.883	1
PCBs 83 + 99	1030	B	12.6	794	1.53	0.898	1
PCB 112	ND	U	9.34	1590			1
PCBs 86 + 87 + 97 + 108 + 119 + 125	1590	B	11.1	794	1.62	0.911	1
PCB 117	68.0	JK	9.80	317	1.80	0.928	1
PCBs 85 + 116	549	B	11.1	317	1.65	0.929	1
PCBs 110 + 115	2160	B	9.72	1590	1.57	0.933	1
PCB 82	586	BJ	16.1	794	1.55	0.941	1
PCB 111	ND	U	9.41	1590			1
PCB 120	ND	U	9.34	794			1
PCBs 107 + 124	66.6	J	9.57	1590	1.74	0.992	1
PCB 109	109	J	8.61	317	1.78	0.998	1
PCB 123	36.7	JK	8.58	794	1.99	1.001	1
PCB 106	ND	U	10.1	794			1
PCB 118	1290	B	8.23	794	1.59	1.001	1
PCB 122	34.4	J	10.3	794	1.48	1.009	1
PCB 114	70.1	J	8.69	794	1.52	1.000	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW3
Lab Code: E0900543-006

Service Request: E0900543
Date Collected: 7/22/09 1056
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 630mL
Data File Name: U220027
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0302
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 105	1110	B	8.86	317	1.61	1.000	1
PCB 127	ND	U	9.82	1590			1
PCB 126	ND	U	8.56	794			1
PCB 155	ND	U	4.07	1590			1
PCB 152	ND	U	4.08	1590			1
PCB 150	ND	U	3.83	1590			1
PCB 136	69.2	BJ	4.23	317	1.22	1.022	1
PCB 145	ND	U	3.95	1590			1
PCB 148	ND	U	5.68	1590			1
PCBs 135 + 151	153	BJ	5.60	794	1.24	1.090	1
PCB 154	ND	U	4.63	794			1
PCB 144	26.4	J	5.77	794	1.08	1.107	1
PCBs 147 + 149	337	BJ	5.65	794	1.21	1.117	1
PCB 134	24.0	JK	7.12	794	1.48	1.123	1
PCB 143	ND	U	6.74	794			1
PCBs 139 + 140	ND	U	5.43	794			1
PCB 131	ND	U	6.72	794			1
PCB 142	ND	U	6.75	1590			1
PCB 132	186	BJ	6.15	794	1.32	1.153	1
PCB 133	ND	U	6.36	794			1
PCB 165	ND	U	4.44	1590			1
PCB 146	45.6	BJ	4.98	794	1.31	0.895	1
PCB 161	ND	U	4.64	1590			1
PCBs 153 + 168	328	BJ	4.67	794	1.28	0.908	1
PCB 141	88.0	BJ	5.64	317	1.38	0.913	1
PCB 130	25.0	JK	6.90	794	1.45	0.922	1
PCB 137	20.1	JK	5.66	1590	1.75	0.927	1
PCB 164	29.2	J	4.33	794	1.26	0.929	1
PCBs 129 + 138 + 163	525	BJ	5.48	794	1.23	0.936	1
PCB 160	ND	U	4.36	794			1
PCB 158	45.2	BJ	3.93	317	1.26	0.944	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW3
Lab Code: E0900543-006

Service Request: E0900543
Date Collected: 7/22/09 1056
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 630mL
Data File Name: U220027
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0302
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 128 + 166	85.7	BJ	5.11	794	1.24	0.963	1
PCB 159	ND	U	6.04	1590			1
PCB 162	ND	U	5.39	1590			1
PCB 167	15.9	J	5.52	794	1.41	1.001	1
PCBs 156 + 157	59.6	BJ	7.11	794	1.17	1.001	1
PCB 169	ND	U	5.88	794			1
PCB 188	ND	U	4.28	794			1
PCB 179	45.0	BJ	4.32	794	0.94	1.009	1
PCB 184	ND	U	3.90	1590			1
PCB 176	12.3	J	4.37	1590	0.92	1.031	1
PCB 186	ND	U	4.14	1590			1
PCB 178	15.2	JK	5.91	794	0.75	1.076	1
PCB 175	ND	U	5.57	1590			1
PCB 187	110	BJ	4.86	794	0.97	1.098	1
PCB 182	ND	U	5.14	1590			1
PCB 183	50.1	J	6.17	1590	0.95	1.113	1
PCB 185	ND	U	6.25	1590			1
PCB 174	89.8	BJ	6.24	794	0.99	1.119	1
PCB 177	35.6	JK	6.37	794	0.82	1.130	1
PCB 181	ND	U	6.13	1590			1
PCBs 171 + 173	22.8	JK	6.94	1590	1.35	1.145	1
PCB 172	13.4	J	6.92	1590	0.94	0.906	1
PCB 192	ND	U	4.96	1590			1
PCBs 180 + 193	173	BJ	5.18	794	0.94	0.918	1
PCB 191	ND	U	5.01	1590			1
PCB 170	96.4	J	6.96	794	0.92	0.942	1
PCB 190	14.5	JK	4.59	794	1.26	0.952	1
PCB 189	ND	U	4.94	794			1
PCB 202	19.9	BJ	3.77	1590	1.00	1.000	1
PCB 201	6.83	BJ	3.54	1590	1.01	1.021	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW3
Lab Code: E0900543-006

Service Request: E0900543
Date Collected: 7/22/09 1056
Date Received: 7/23/09
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 630mL
Data File Name: U220027
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0302
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 204	ND	U	3.60	1590			1
PCB 197	ND	U	3.29	1590			1
PCB 200	9.00	J	3.54	1590	0.87	1.042	1
PCBs 198 + 199	81.5	BJ	4.60	794	0.94	1.103	1
PCB 196	28.7	BJ	4.80	1590	0.83	0.923	1
PCB 203	37.1	BJK	4.04	1590	0.73	0.927	1
PCB 195	21.2	J	4.90	1590	0.84	0.950	1
PCB 194	58.5	BJ	4.57	794	0.81	0.992	1
PCB 205	ND	U	3.48	1590			1
PCB 208	29.0	BJ	4.17	1590	0.79	1.001	1
PCB 207	7.92	JK	4.98	1590	0.50	1.019	1
PCB 206	75.6	BJ	6.79	1590	0.73	1.000	1
PCB 209	19.4	BJ	3.45	794	1.05	1.000	1
Total MonoCB	73.4	J	12.4	317			1
Total DiCB	2500		38.2	794			1
Total TriCB	9020		19.6	794			1
Total TetraCB	32100		15.9	794			1
Total PentaCB	12900		8.23	1590			1
Total HexaCB	2060		3.83	1590			1
Total HeptaCB	678	J	3.90	1590			1
Total OctaCB	263	J	3.29	1590			1
Total NonaCB	112	J	4.17	1590			1
Total PCBs	59700		3.29	1590			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: B120-MW3
Lab Code: E0900543-006

Service Request: E0900543
Date Collected: 7/22/09 1056
Date Received: 7/23/09
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 630mL
Data File Name: U220027
ICAL Date: 05/01/08

Date Analyzed: 8/6/09 0302
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	2000	364.451	18		15-150	2.92	0.743
PCB 3L	2000	416.849	21		15-150	3.22	0.871
PCB 4L	2000	468.674	23	Y	25-150	1.47	0.886
PCB 15L	2000	604.976	30		25-150	1.52	1.222
PCB 19L	2000	503.547	25		25-150	1.03	1.065
PCB 37L	2000	874.149	44		25-150	1.06	1.080
PCB 54L	2000	491.073	25		25-150	0.77	0.832
PCB 81L	2000	1091.044	55		25-150	0.79	1.323
PCB 77L	2000	1118.176	56		25-150	0.80	1.343
PCB 104L	2000	731.683	37		25-150	1.54	0.829
PCB 123L	2000	928.072	46		25-150	1.55	1.133
PCB 118L	2000	956.703	48		25-150	1.54	1.143
PCB 114L	2000	874.161	44		25-150	1.54	1.158
PCB 105L	2000	915.856	46		25-150	1.54	1.176
PCB 126L	2000	999.071	50		25-150	1.55	1.264
PCB 155L	2000	994.161	50		25-150	1.23	0.807
PCB 167L	2000	931.627	47		25-150	1.25	1.069
PCBs 156L + 157L	4000	1896.746	47		25-150	1.24	1.096
PCB 169L	2000	944.591	47		25-150	1.27	1.171
PCB 188L	2000	986.421	49		25-150	1.02	0.736
PCB 189L	2000	833.932	42		25-150	1.00	0.962
PCB 202L	2000	893.091	45		25-150	0.92	0.833
PCB 205L	2000	954.237	48		25-150	0.90	1.009
PCB 208L	2000	968.661	48		25-150	0.77	0.954
PCB 206L	2000	828.790	41		25-150	0.79	1.040
PCB 209L	2000	873.243	44		25-150	1.18	1.069
PCB 28L	2000	575.720	29	Y	30-135	1.04	0.933
PCB 111L	2000	961.055	48		30-135	1.53	1.077
PCB 178L	2000	993.925	50		30-135	1.02	1.010

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ0900286-01

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220021
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2014
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	19.3	J	8.67	200	2.79	1.000	1
PCB 2	ND	U	9.10	10.0			1
PCB 3	19.5	J	9.18	200	3.04	1.001	1
PCB 4	ND	U	118	500			1
PCB 10	ND	U	73.3	50.0			1
PCB 9	ND	U	32.6	50.0			1
PCB 7	ND	U	30.1	50.0			1
PCB 6	ND	U	32.4	50.0			1
PCB 5	ND	U	31.5	50.0			1
PCB 8	124	J	30.9	500	1.75	1.184	1
PCB 14	ND	U	31.4	100			1
PCB 11	1200		32.6	200	1.57	0.972	1
PCBs 12 + 13	ND	U	31.2	100			1
PCB 15	ND	U	31.3	500			1
PCB 19	ND	U	18.9	100			1
PCBs 18 + 30	137	J	12.3	500	0.96	1.100	1
PCB 17	58.4	J	14.1	200	1.01	1.122	1
PCB 27	ND	U	10.8	200			1
PCB 24	ND	U	10.5	200			1
PCB 16	57.7	J	18.9	100	1.00	1.146	1
PCB 32	42.8	J	9.76	200	1.10	1.172	1
PCB 34	ND	U	12.1	200			1
PCB 23	ND	U	11.4	200			1
PCBs 26 + 29	29.7	J	11.0	200	1.17	1.261	1
PCB 25	ND	U	10.8	200			1
PCB 31	144	J	11.7	500	0.99	0.855	1
PCBs 20 + 28	136	J	11.0	500	0.99	0.865	1
PCBs 21 + 33	79.9	J	11.8	200	0.90	0.873	1
PCB 22	45.8	J	11.6	200	1.09	0.887	1
PCB 36	ND	U	11.7	200			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ0900286-01

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220021
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2014
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 39	ND	U	11.0	200			1
PCB 38	ND	U	13.3	200			1
PCB 35	ND	U	14.0	200			1
PCB 37	23.0	J	13.8	500	1.08	1.001	1
PCB 54	ND	U	4.40	500			1
PCBs 50 + 53	15.6	J	6.88	200	0.84	1.097	1
PCBs 45 + 51	24.4	J	7.13	200	0.71	1.128	1
PCB 46	ND	U	8.12	200			1
PCB 52	142	J	7.24	500	0.75	1.203	1
PCBs 43 + 73	ND	U	6.57	500			1
PCBs 49 + 69	60.4	J	6.57	500	0.76	1.225	1
PCB 48	22.9	J	7.06	200	0.71	1.238	1
PCBs 44 + 47 + 65	105	J	6.76	500	0.75	1.247	1
PCBs 59 + 62 + 75	8.34	J	5.71	200	0.71	1.263	1
PCB 42	23.0	JK	8.67	200	0.64	1.270	1
PCBs 41 + 71 + 40	44.5	J	7.74	500	0.86	1.292	1
PCB 64	43.7	J	5.95	200	0.75	1.302	1
PCB 72	ND	U	5.98	500			1
PCB 68	7.94	J	5.48	500	0.79	0.849	1
PCB 57	ND	U	6.29	500			1
PCB 58	ND	U	5.65	500			1
PCB 67	ND	U	5.45	500			1
PCB 63	ND	U	6.09	500			1
PCBs 70 + 61 + 74 + 76	128	J	5.71	500	0.78	0.888	1
PCB 66	65.0	J	5.90	500	0.70	0.897	1
PCB 55	ND	U	5.91	500			1
PCB 56	22.4	J	5.25	200	0.75	0.916	1
PCB 60	13.3	J	5.05	500	0.76	0.922	1
PCB 80	ND	U	4.40	500			1
PCB 79	ND	U	4.64	500			1
PCB 78	ND	U	5.60	500			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ0900286-01

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220021
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2014
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 81	ND	U	5.07	500			1
PCB 77	ND	U	5.24	500			1
PCB 104	ND	U	4.82	500			1
PCB 96	ND	U	4.16	500			1
PCB 103	ND	U	5.22	500			1
PCB 94	ND	U	5.68	500			1
PCB 95	88.9	J	5.53	500	1.62	1.105	1
PCBs 93 + 100	ND	U	5.06	500			1
PCBs 98 + 102	ND	U	5.65	500			1
PCBs 88 + 91	13.5	J	5.43	500	1.75	1.136	1
PCB 84	27.2	J	5.90	500	1.50	1.142	1
PCB 89	ND	U	3.44	500			1
PCB 121	ND	U	2.20	500			1
PCB 92	15.0	J	3.27	500	1.46	0.869	1
PCBs 90 + 101 + 113	77.4	J	2.69	1000	1.54	0.883	1
PCBs 83 + 99	34.5	J	3.00	500	1.64	0.898	1
PCB 112	ND	U	2.24	1000			1
PCBs 86 + 87 + 97 + 108 + 119 + 125	54.8	J	2.65	500	1.56	0.913	1
PCB 117	ND	U	2.35	200			1
PCBs 85 + 116	8.36	JK	2.66	200	1.81	0.929	1
PCBs 110 + 115	86.3	J	2.33	1000	1.75	0.934	1
PCB 82	8.62	JK	3.85	500	1.13	0.942	1
PCB 111	ND	U	2.26	1000			1
PCB 120	ND	U	2.24	500			1
PCBs 107 + 124	ND	U	2.70	1000			1
PCB 109	ND	U	2.42	200			1
PCB 123	ND	U	2.48	500			1
PCB 106	ND	U	2.83	500			1
PCB 118	41.2	J	2.32	500	1.54	1.000	1
PCB 122	ND	U	2.89	500			1
PCB 114	ND	U	2.46	500			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ0900286-01

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220021
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2014
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 105	19.0	J	2.39	200	1.49	1.000	1
PCB 127	ND	U	2.76	1000			1
PCB 126	ND	U	2.34	500			1
PCB 155	ND	U	2.86	1000			1
PCB 152	ND	U	2.63	1000			1
PCB 150	ND	U	2.47	1000			1
PCB 136	10.6	J	2.72	200	1.33	1.022	1
PCB 145	ND	U	2.54	1000			1
PCB 148	ND	U	3.66	1000			1
PCBs 135 + 151	25.4	J	3.60	500	1.13	1.090	1
PCB 154	ND	U	2.98	500			1
PCB 144	ND	U	3.72	500			1
PCBs 147 + 149	48.3	J	3.23	500	1.31	1.117	1
PCB 134	ND	U	4.08	500			1
PCB 143	ND	U	3.86	500			1
PCBs 139 + 140	ND	U	3.11	500			1
PCB 131	ND	U	3.85	500			1
PCB 142	ND	U	3.87	1000			1
PCB 132	24.1	JK	3.52	500	1.00	1.154	1
PCB 133	ND	U	3.64	500			1
PCB 165	ND	U	2.55	1000			1
PCB 146	6.64	J	2.85	500	1.33	0.895	1
PCB 161	ND	U	2.66	1000			1
PCBs 153 + 168	45.7	J	2.67	500	1.26	0.908	1
PCB 141	11.4	J	3.23	200	1.19	0.913	1
PCB 130	ND	U	3.95	500			1
PCB 137	ND	U	3.24	1000			1
PCB 164	ND	U	2.48	500			1
PCBs 129 + 138 + 163	72.0	J	3.14	500	1.15	0.936	1
PCB 160	ND	U	2.50	500			1
PCB 158	5.25	JK	2.25	200	1.55	0.944	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ0900286-01

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220021
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2014
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCBs 128 + 166	10.5	J	2.93	500	1.06	0.963	1
PCB 159	ND	U	2.40	1000			1
PCB 162	ND	U	2.14	1000			1
PCB 167	ND	U	2.14	500			1
PCBs 156 + 157	7.17	J	2.68	500	1.16	1.001	1
PCB 169	ND	U	2.32	500			1
PCB 188	ND	U	1.96	500			1
PCB 179	5.99	J	1.97	500	1.09	1.009	1
PCB 184	ND	U	1.78	1000			1
PCB 176	ND	U	1.99	1000			1
PCB 186	ND	U	1.89	1000			1
PCB 178	ND	U	2.69	500			1
PCB 175	ND	U	2.54	1000			1
PCB 187	11.9	JK	2.22	500	0.84	1.098	1
PCB 182	ND	U	2.34	1000			1
PCB 183	ND	U	4.26	1000			1
PCB 185	ND	U	4.32	1000			1
PCB 174	6.47	J	4.31	500	1.02	1.119	1
PCB 177	ND	U	4.40	500			1
PCB 181	ND	U	4.23	1000			1
PCBs 171 + 173	ND	U	4.79	1000			1
PCB 172	ND	U	4.78	1000			1
PCB 192	ND	U	3.42	1000			1
PCBs 180 + 193	12.2	JK	3.57	500	0.83	0.918	1
PCB 191	ND	U	3.46	1000			1
PCB 170	ND	U	4.81	500			1
PCB 190	ND	U	3.17	500			1
PCB 189	ND	U	3.39	500			1
PCB 202	5.00	JK	1.99	1000	0.63	1.000	1
PCB 201	2.61	J	1.88	1000	0.90	1.020	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ0900286-01

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220021
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2014
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 204	ND	U	1.91	1000			1
PCB 197	ND	U	1.75	1000			1
PCB 200	ND	U	1.88	1000			1
PCBs 198 + 199	22.4	J	2.45	500	0.80	1.103	1
PCB 196	4.24	JK	2.55	1000	1.21	0.923	1
PCB 203	9.00	JK	2.15	1000	1.09	0.927	1
PCB 195	ND	U	2.61	1000			1
PCB 194	6.26	JK	2.43	500	0.65	0.992	1
PCB 205	ND	U	1.87	1000			1
PCB 208	13.0	JK	2.93	1000	0.90	1.000	1
PCB 207	ND	U	3.69	1000			1
PCB 206	33.5	JK	6.85	1000	0.97	1.001	1
PCB 209	11.3	J	2.11	500	1.27	1.000	1
Total MonoCB	38.9	J	8.67	200			1
Total DiCB	1330		30.1	500			1
Total TriCB	754		9.76	500			1
Total TetraCB	727		4.40	500			1
Total PentaCB	475	J	2.20	1000			1
Total HexaCB	267	J	2.14	1000			1
Total HeptaCB	36.5	J	1.78	1000			1
Total OctaCB	49.6	J	1.75	1000			1
Total NonaCB	46.5	J	2.93	1000			1
Total PCBs	3730		1.75	1000			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: EQ0900286-01

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220021
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 2014
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220019

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	2000	260.311	13	Y	15-150	3.13	0.743
PCB 3L	2000	326.117	16		15-150	3.16	0.871
PCB 4L	2000	380.327	19	Y	25-150	1.48	0.885
PCB 15L	2000	495.680	25		25-150	1.55	1.221
PCB 19L	2000	422.153	21	Y	25-150	1.05	1.064
PCB 37L	2000	584.679	29		25-150	1.02	1.080
PCB 54L	2000	465.797	23	Y	25-150	0.78	0.831
PCB 81L	2000	743.018	37		25-150	0.77	1.323
PCB 77L	2000	753.466	38		25-150	0.78	1.344
PCB 104L	2000	540.286	27		25-150	1.51	0.829
PCB 123L	2000	687.744	34		25-150	1.53	1.133
PCB 118L	2000	718.035	36		25-150	1.54	1.143
PCB 114L	2000	656.567	33		25-150	1.56	1.158
PCB 105L	2000	703.834	35		25-150	1.56	1.176
PCB 126L	2000	760.186	38		25-150	1.52	1.264
PCB 155L	2000	692.351	35		25-150	1.26	0.807
PCB 167L	2000	682.957	34		25-150	1.29	1.070
PCBs 156L + 157L	4000	1456.505	36		25-150	1.30	1.097
PCB 169L	2000	714.376	36		25-150	1.24	1.171
PCB 188L	2000	817.676	41		25-150	1.04	0.735
PCB 189L	2000	690.797	35		25-150	1.01	0.962
PCB 202L	2000	750.830	38		25-150	0.91	0.833
PCB 205L	2000	783.202	39		25-150	0.88	1.008
PCB 208L	2000	821.504	41		25-150	0.76	0.954
PCB 206L	2000	646.253	32		25-150	0.77	1.040
PCB 209L	2000	678.418	34		25-150	1.20	1.069
PCB 28L	2000	490.344	25	Y	30-135	1.02	0.933
PCB 111L	2000	752.412	38		30-135	1.61	1.076
PCB 178L	2000	784.783	39		30-135	1.03	1.010

Comments: _____



Accuracy and Precision

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COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water

Service Request: E0900543
Date Analyzed: 8/ 5/09

**Lab Control Sample Summary
 Chlorinated Biphenyl Congeners by HRGC/HRMS**

Analytical Method: 1668A
Prep Method: Method

Units: pg/L
Basis: NA

Extraction Lot: 91920

Analyte Name	Lab Control Sample EQ0900286-02			Duplicate Lab Control Sample EQ0900286-03			% Rec Limits	RPD	RPD Limit
	Result	Expected	% Rec	Result	Expected	% Rec			
PCB 1	971	1000	97	970	1000	97	50 - 150	0	50
PCB 3	1010	1000	101	989	1000	99	50 - 150	2	50
PCB 4	996	1000	100	963	1000	96	50 - 150	4	50
PCB 15	1050	1000	105	1010	1000	101	50 - 150	4	50
PCB 19	988	1000	99	959	1000	96	50 - 150	3	50
PCB 37	1090	1000	109	1000	1000	100	50 - 150	9	50
PCB 54	1020	1000	102	991	1000	99	50 - 150	3	50
PCB 81	973	1000	97	971	1000	97	50 - 150	0	50
PCB 77	1030	1000	103	1010	1000	101	50 - 150	2	50
PCB 104	989	1000	99	929	1000	93	50 - 150	6	50
PCB 123	853	1000	85	908	1000	91	50 - 150	7	50
PCB 118	872	1000	87	945	1000	94	50 - 150	8	50
PCB 114	890	1000	89	969	1000	97	50 - 150	9	50
PCB 105	886	1000	89	970	1000	97	50 - 150	9	50
PCB 126	895	1000	89	969	1000	97	50 - 150	9	50
PCB 155	839	1000	84	893	1000	89	50 - 150	6	50
PCB 167	856	1000	86	954	1000	95	50 - 150	10	50
PCBs 156 + 157	1730	2000	87	1920	2000	96	50 - 150	10	50
PCB 169	965	1000	97	1000	1000	100	50 - 150	3	50
PCB 188	735	1000	74	881	1000	88	50 - 150	17	50
PCB 189	1030	1000	103	1040	1000	104	50 - 150	1	50
PCB 202	831	1000	83	978	1000	98	50 - 150	17	50
PCB 205	940	1000	94	974	1000	97	50 - 150	3	50
PCB 208	1000	1000	100	1100	1000	110	50 - 150	10	50
PCB 206	1020	1000	102	1010	1000	101	50 - 150	1	50
PCB 209	1010	1000	101	1000	1000	100	50 - 150	1	50

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Lab Control Sample
Lab Code: EQ0900286-02

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220017
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 1517
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220014

Analyte Name	Result Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	971	5.10	200	3.12	1.000	1
PCB 3	1010	5.89	200	3.06	1.001	1
PCB 4	996	29.4	500	1.47	1.001	1
PCB 15	1050	18.2	500	1.57	1.001	1
PCB 19	988	11.4	100	1.04	1.001	1
PCB 37	1090	5.63	500	0.98	1.001	1
PCB 54	1020	4.53	500	0.74	1.001	1
PCB 81	973	3.12	500	0.77	1.000	1
PCB 77	1030	3.04	500	0.75	1.001	1
PCB 104	989	3.61	500	1.55	1.001	1
PCB 123	853	4.31	500	1.52	1.001	1
PCB 118	872	3.96	500	1.58	1.001	1
PCB 114	890	4.33	500	1.57	1.000	1
PCB 105	886	4.08	200	1.59	1.000	1
PCB 126	895	3.75	500	1.60	1.001	1
PCB 155	839 J	1.57	1000	1.12	1.000	1
PCB 167	856	1.81	500	1.18	1.001	1
PCBs 156 + 157	1730	2.28	500	1.21	1.000	1
PCB 169	965	1.88	500	1.19	1.000	1
PCB 188	735	1.97	500	0.96	1.000	1
PCB 189	1030	2.21	500	0.97	1.000	1
PCB 202	831 J	2.05	1000	0.83	1.000	1
PCB 205	940 J	1.75	1000	0.82	1.001	1
PCB 208	1000	2.27	1000	0.74	1.001	1
PCB 206	1020	4.19	1000	0.77	1.001	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Lab Control Sample
Lab Code: EQ0900286-02

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220017
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 1517
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220014

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 209	1010		1.68	500	1.19	1.000	1
Total MonoCB	1980		5.10	200			1
Total DiCB	2050		18.2	500			1
Total TriCB	2080		5.63	500			1
Total TetraCB	3020		3.04	500			1
Total PentaCB	5390		3.61	1000			1
Total HexaCB	4390		1.57	1000			1
Total HeptaCB	1770		1.97	1000			1
Total OctaCB	1770		1.75	1000			1
Total NonaCB	2020		2.27	1000			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Lab Control Sample
Lab Code: EQ0900286-02

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220017
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 1517
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220014

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	2000	271.244	14	Y	15-150	3.13	0.743
PCB 3L	2000	317.047	16		15-150	3.12	0.872
PCB 4L	2000	326.587	16	Y	25-150	1.50	0.886
PCB 15L	2000	464.429	23	Y	25-150	1.52	1.222
PCB 19L	2000	383.053	19	Y	25-150	1.04	1.065
PCB 37L	2000	757.217	38		25-150	1.03	1.080
PCB 54L	2000	450.834	23	Y	25-150	0.80	0.832
PCB 81L	2000	1009.032	50		25-150	0.76	1.324
PCB 77L	2000	1052.972	53		25-150	0.79	1.344
PCB 104L	2000	645.582	32		25-150	1.57	0.829
PCB 123L	2000	974.383	49		25-150	1.55	1.133
PCB 118L	2000	1034.654	52		25-150	1.53	1.143
PCB 114L	2000	931.756	47		25-150	1.55	1.158
PCB 105L	2000	1032.671	52		25-150	1.54	1.176
PCB 126L	2000	1161.181	58		25-150	1.55	1.264
PCB 155L	2000	885.825	44		25-150	1.25	0.807
PCB 167L	2000	1098.825	55		25-150	1.26	1.069
PCBs 156L + 157L	4000	2304.525	58		25-150	1.31	1.097
PCB 169L	2000	1174.819	59		25-150	1.30	1.171
PCB 188L	2000	984.373	49		25-150	1.04	0.736
PCB 189L	2000	1035.917	52		25-150	1.07	0.962
PCB 202L	2000	1049.401	52		25-150	0.90	0.833
PCB 205L	2000	1167.916	58		25-150	0.89	1.009
PCB 208L	2000	1122.667	56		25-150	0.81	0.954
PCB 206L	2000	982.426	49		25-150	0.78	1.040
PCB 209L	2000	991.473	50		25-150	1.18	1.069
PCB 28L	2000	649.482	32		30-135	1.05	0.933
PCB 111L	2000	1135.365	57		30-135	1.56	1.077
PCB 178L	2000	1169.083	58		30-135	1.04	1.010

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Lab Control Sample Dup
Lab Code: EQ0900286-03

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220018
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 1625
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220014

Analyte Name	Result Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 1	970	6.16	200	3.02	1.000	1
PCB 3	989	7.54	200	3.11	1.001	1
PCB 4	963	36.2	500	1.60	1.001	1
PCB 15	1010	15.2	500	1.53	1.001	1
PCB 19	959	9.02	100	1.04	1.001	1
PCB 37	1000	3.70	500	1.00	1.001	1
PCB 54	991	5.00	500	0.75	1.001	1
PCB 81	971	3.54	500	0.74	1.000	1
PCB 77	1010	3.45	500	0.76	1.001	1
PCB 104	929	3.21	500	1.59	1.001	1
PCB 123	908	1.92	500	1.54	1.001	1
PCB 118	945	1.80	500	1.51	1.001	1
PCB 114	969	1.90	500	1.58	1.000	1
PCB 105	970	1.88	200	1.52	1.000	1
PCB 126	969	1.89	500	1.58	1.001	1
PCB 155	893 J	2.62	1000	1.16	1.000	1
PCB 167	954	2.92	500	1.17	1.000	1
PCBs 156 + 157	1920	3.63	500	1.23	1.001	1
PCB 169	1000	3.08	500	1.16	1.001	1
PCB 188	881	1.61	500	0.98	1.000	1
PCB 189	1040	3.11	500	1.01	1.000	1
PCB 202	978 J	2.26	1000	0.86	1.000	1
PCB 205	974 J	2.07	1000	0.85	1.000	1
PCB 208	1100	3.54	1000	0.78	1.000	1
PCB 206	1010	6.89	1000	0.76	1.000	1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Lab Control Sample Dup
Lab Code: EQ0900286-03

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: pg/L
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220018
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 1625
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220014

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
PCB 209	1000		1.71	500	1.18	1.001	1
Total MonoCB	1960		6.16	200			1
Total DiCB	1980		15.2	500			1
Total TriCB	1960		3.70	500			1
Total TetraCB	2970		3.45	500			1
Total PentaCB	5690		1.80	1000			1
Total HexaCB	4770		2.62	1000			1
Total HeptaCB	1920		1.61	1000			1
Total OctaCB	1950		2.07	1000			1
Total NonaCB	2120		3.54	1000			1

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: GeoSyntec Consultants
Project: TDY/SC0307
Sample Matrix: Water
Sample Name: Lab Control Sample Dup
Lab Code: EQ0900286-03

Service Request: E0900543
Date Collected: NA
Date Received: NA
Units: Percent
Basis: NA

Chlorinated Biphenyl Congeners by HRGC/HRMS

Analytical Method: 1668A
Prep Method: Method
Sample Amount: 1000mL
Data File Name: U220018
ICAL Date: 05/01/08

Date Analyzed: 8/5/09 1625
Date Extracted: 7/30/09
Instrument Name: E-HRMS-02
GC Column: SPB-OCTYL
Blank File Name: U220021
Cal Ver. File Name: U220014

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
PCB 1L	2000	330.637	17		15-150	3.11	0.743
PCB 3L	2000	364.244	18		15-150	3.03	0.872
PCB 4L	2000	372.289	19	Y	25-150	1.49	0.886
PCB 15L	2000	464.242	23	Y	25-150	1.55	1.222
PCB 19L	2000	410.860	21	Y	25-150	1.03	1.065
PCB 37L	2000	756.617	38		25-150	1.05	1.080
PCB 54L	2000	472.255	24	Y	25-150	0.78	0.832
PCB 81L	2000	940.409	47		25-150	0.80	1.324
PCB 77L	2000	1000.282	50		25-150	0.79	1.344
PCB 104L	2000	714.925	36		25-150	1.56	0.829
PCB 123L	2000	985.902	49		25-150	1.57	1.133
PCB 118L	2000	1044.974	52		25-150	1.52	1.143
PCB 114L	2000	952.016	48		25-150	1.55	1.158
PCB 105L	2000	1009.357	50		25-150	1.52	1.176
PCB 126L	2000	1055.864	53		25-150	1.58	1.264
PCB 155L	2000	870.088	44		25-150	1.26	0.807
PCB 167L	2000	971.011	49		25-150	1.28	1.070
PCBs 156L + 157L	4000	2032.021	51		25-150	1.27	1.096
PCB 169L	2000	1008.211	50		25-150	1.25	1.171
PCB 188L	2000	996.590	50		25-150	1.05	0.736
PCB 189L	2000	932.808	47		25-150	1.03	0.962
PCB 202L	2000	952.880	48		25-150	0.90	0.833
PCB 205L	2000	1023.934	51		25-150	0.92	1.009
PCB 208L	2000	1008.583	50		25-150	0.76	0.954
PCB 206L	2000	894.504	45		25-150	0.77	1.040
PCB 209L	2000	909.023	45		25-150	1.17	1.069
PCB 28L	2000	599.917	30		30-135	1.06	0.934
PCB 111L	2000	1014.566	51		30-135	1.61	1.077
PCB 178L	2000	1045.397	52		30-135	1.02	1.010

Comments: _____



Chain of Custody

19408 Park Row, Suite 320, Houston, TX 77084

Phone (713)266-1599 Fax (713)266-0130

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Analysis Request and Chain of Custody Record

Project Name TDY	Project Number S10307	Required Analyses							
Samplers Names Blaine Teeko	Project Contact Brian Hitchens	VOCs by	Metals	SVOCs by 8270	PCBs (16/65)				
Laboratory Name Columbia Analytical	Lab Contact Jane Fremeyer								
Lab Address 19408 Park Row, Suite 320 Houston, TX 77084	Lab Phone 281-994-2957								
Carrier/Waybill No.									

White copy: to accompany samples
Yellow copy: field copy

Sample Name	Date	Time	Sample Type	Bottle Type and Volume/Preservative								Comments	Lab Use Only	
				Number of Containers									Condition of Bottles	
MWCL-2	7/21/09	12:55	H ₂ O										use 0.1 micron filter	
MWCL-4		14:25											of 7/23/09	
MWCL-6		12:47												
MWCL-8R		14:25												
B120-MW2	7/22/09	12:30												
B120-MW3	7/22/09	10:56												

Special Instructions: ^(0.1) Filter and prepare samples for dissolved PCB analysis (Homologs & Total PCBs). Contact Brian Hitchens for questions.

Turn-around Time: Normal Rush

1. Relinquished by <i>[Signature]</i> BTS Date 07-21-09 Time 1541	1. Received by <i>[Signature]</i> Date 7/22/09 Time 15:41
2. Relinquished by <i>[Signature]</i> Date 7/22/09 Time 16:15	2. Received by FedEx Date 7/22/09 Time 16:15
3. Relinquished by Date Time	3. Received by Kurt Brown CAS-Houston Date 7/23/09 Time 1600

Columbia Analytical Services, Inc.
Cooler Receipt Form

Client/Project: Geosyntec Consultants / S10307 Service Request: E0900543

Received: 07/23/09 Opened (Date/Time): 07/23/09 1000 By: NAB

1. Samples were received via? US Mail Fedex UPS DHL Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Other _____ NA
3. Were custody seals present on coolers? Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N
4. Is shipper's air-bill filed? NA Y N If not, record air bill number: 870332536544
5. Temperature of cooler(s) upon receipt (°C): 0
6. If applicable, list Chain of Custody numbers: 2794
7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
8. Packing material used: Inserts Bubble Wrap Blue Ice Wet Ice Sleeves Other _____
9. Were the correct types of bottles used for the tests indicated? Y N
Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* Y N

Sample ID	Bottle Count	Bottle Type	Out of Temp	Broken	Initials
MWCL-4	1 *	amber glass	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NB
B120-MW3	1 *	amber glass	<input type="checkbox"/>	<input checked="" type="checkbox"/>	NB
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	

10. Were all bottle labels complete (i.e. analysis, ID, etc.)? Y N
Did all bottle labels and tags agree with custody papers? *Indicate in the table below.* Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

11. Additional notes, discrepancies, and resolutions:

* The duplicate on each of these two samples arrived broken. There is one of each available for analysis. NB 07/23/09

Sample Acceptance Policy

Custody Seals (desirable, mandatory if specified in SAP):

- ✓ On outside of cooler
- ✓ Seals intact, signed and dated

Chain-of-Custody documentation (mandatory):

- ✓ Properly filled out in ink & signed by the client
- ✓ Sign and date the coc for CAS/HOU upon cooler receipt
- ✓ Coc must list method number
- ✓ If no coc was submitted with the samples, complete a CAS/HOU coc for the client

Sample Integrity (mandatory):

- ✓ Sample containers must arrive in good condition (not broken or leaking)
- ✓ Sample IDs on the bottles must match the sample IDs on the coc
- ✓ The correct type of sample bottle must be used for the method requested
- ✓ The correct number of sample containers received must agree with the documentation on the coc
- ✓ The correct sample matrix must appear on the coc
- ✓ An appropriate sample volume or weight must be received

Temperature Preservatives (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C
- ✓ Air samples can be shipped and stored at ambient temperature, ~23°C
- ✓ The sample temperature must be recorded on the coc
- ✓ Notify a Project Chemist if any samples are outside the acceptance temperature or have compromised sample integrity – the client must decide re: replacement sample submittal or continue with the analysis

Cooler Receipt Form, CRF (mandatory):

- ✓ Cooler receipt forms must be completed for each coc & SR#
- ✓ Sample integrity issues must be documented on the CRF
- ✓ A scan of the carrier and the airbill number must be recorded in CAS LIMS

Sample Integrity Issues/Resolutions (mandatory):

- ✓ Sample integrity issues are documented on the CRF and given to the Project Chemist for resolution with the client
- ✓ Client resolution is documented in writing (typically email or on the CRF) and filed in the project folder(s)

Service Request Summary

Folder #: E0900543
Client Name: GeoSyntec Consultants
Project Name: TDY
Project Number: SC0307

Report To: Brian Hitchens
 GeoSyntec Consultants
 10875 Rancho Bernardo Road
 Suite 200
 San Diego, CA 92127

Phone Number: 858 674-6559

Cell Number:

Fax Number:

E-mail: bhitchens@geosyntec.com

Project Chemist: Jane Freemyer
Originating Lab: HOUSTON
Logged By: NBROWN
Date Received: 7/23/09
Internal Due Date: 8/10/09
QAP: LAB QAP
Qualifier Set: CAS Standard
Formset: CAS Standard
Merged?: N
Report to MDL?: Y
P.O. Number: 09/21/07
EDD: BASIC_WQC_CASNo

12 - 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved

Location: E-WIC01

CAS Samp No	Client Samp No.	Matrix	Collected	1668A/CI Biphen Cong	SVM
E0900543-001	MWCL-2	Water	7/21/09 1255		IV
E0900543-002	MWCL-4	Water	7/21/09 1407		IV
E0900543-003	MWCL-6	Water	7/21/09 1247		IV
E0900543-004	MWCL-8R	Water	7/21/09 1425		IV
E0900543-005	B120-MW2	Water	7/22/09 1230		IV
E0900543-006	B120-MW3	Water	7/22/09 1056		IV

Folder Comments:

Back-up samples for -002 and -003 arrived broken - extract 500mL for each one - and save 500mL for re-extraction,if needed.

Filter all samples through 0.1 micron filter before extraction procedure.

08/06/09 - NCAR - dilution needed - An NCAR has been created for sample E0900543-005.

Please perform a dilution on this sample. There were a few saturated peaks. jfreemyer- 08/09/09

09/10/09jf - Dilution on -005 merged or unmerged? [reply] Just merged into one total PCB,with the diluted results flagged. Thanks. Changed -005 to merged...jf

Test Comments:

Group	Test/Method	Samples	Comments
Semivoa GCMS	CI Biphen Cong/1668A	5	DL 08/07/09 ASB

Preparation Information Benchsheet

Prep Run#: 91920
 Team: Semivoa GCMS/AKODUR

Prep Workflow: OrgExtAq(365)
 Prep Method: Method

Status: Prepped
 Prep Date/Time: 7/30/09 06:30 AM

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Sample Description
1	E0900543-001	MWCL-2	.01	1668A/Cl Biphen Cong		Water	920mL	clear colorless liquid
2	E0900543-002	MWCL-4	.01	1668A/Cl Biphen Cong		Water	540mL	clear colorless liquid
3	E0900543-003	MWCL-6	.01	1668A/Cl Biphen Cong		Water	990mL	clear colorless liquid
4	E0900543-004	MWCL-8R	.01	1668A/Cl Biphen Cong		Water	960mL	clear colorless liquid
5	E0900543-005	B120-MW2	.01	1668A/Cl Biphen Cong		Water	960mL	orange clear liquid
6	E0900543-006	B120-MW3	.01	1668A/Cl Biphen Cong		Water	630mL	orange clear liquid
7	EQ0900286-01	MB		1668A/Cl Biphen Cong		Liquid	1000mL	
8	EQ0900286-02	LCS		1668A/Cl Biphen Cong		Liquid	1000mL	
9	EQ0900286-03	DLCS		1668A/Cl Biphen Cong		Liquid	1000mL	
10	R0903918-011	EB071709-GW	.06	1668A/Cl Biphen Cong		Water	980mL	clear colorless liquid
11	R0903918-013	TR-6B	.06	1668A/Cl Biphen Cong		Water	1100mL	clear colorless liquid
12	R0904016-019	FB072109-SO	.08	1668A/Cl Biphen Cong		Water	1100mL	clear colorless liquid
13	R0904016-020	EB072109-SO	.08	1668A/Cl Biphen Cong		Water	970mL	clear colorless liquid
14	R0904102-016	EB072309-SO	.08	1668A/Cl Biphen Cong		Water	900mL	clear colorless liquid

Spiking Solutions

Name:	1668A Clean Up Working Standard	Inventory ID	10548	Logbook Ref:	B2-36-3	Expires On:	05/14/2019
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E0900543-001	100.00µL	E0900543-002	100.00µL	E0900543-003	100.00µL	E0900543-004	100.00µL	E0900543-005	100.00µL	E0900543-006	100.00µL
EQ0900286-01	100.00µL	EQ0900286-02	100.00µL	EQ0900286-03	100.00µL	R0903918-011	100.00µL	R0903918-013	100.00µL	R0904016-019	100.00µL
R0904016-020	100.00µL	R0904102-016	100.00µL								

Name:	1668A Labeled Working Standard	Inventory ID	11337	Logbook Ref:	B2-41-1	Expires On:	07/29/2014
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E0900543-001	1,000.00µL	E0900543-002	1,000.00µL	E0900543-003	1,000.00µL	E0900543-004	1,000.00µL	E0900543-005	1,000.00µL	E0900543-006	1,000.00µL
EQ0900286-01	1,000.00µL	EQ0900286-02	1,000.00µL	EQ0900286-03	1,000.00µL	R0903918-011	1,000.00µL	R0903918-013	1,000.00µL	R0904016-019	1,000.00µL
R0904016-020	1,000.00µL	R0904102-016	1,000.00µL								

Name:	1668A Working Matrix Standard	Inventory ID	11340	Logbook Ref:	B2-41-2	Expires On:	07/29/2014
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EQ0900286-02	1,000.00µL	EQ0900286-03	1,000.00µL
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Preparation Information Benchsheet

Prep Run#: 91920
Team: Semivoa GCMS/AKODUR

Prep Workflow: OrgExtAq(365)
Prep Method: Method

Status: Prepped
Prep Date/Time: 7/30/09 06:30 AM

Preparation Materials

Acetone 99.5% Minimum	C2-16-007 (7199)	Glass Wool	C2-13-005 (7198)	Sulfuric Acid Reagent Grade H2SO4	C2-24-003 (9461)
Dichloromethane (Methylene Chloride) 99.9% MeCl2	C2-25-001 (9449)	Sodium Chloride Reagent Grade NaCl	C1-104-2 (3306)	Sodium Hydroxide Reagent Grade NaOH	C2-24-002 (9463)
Sodium Sulfate Anhydrous Reagent Grade Na2SO4	C2-19-006 (7201)	Hexane (n-Hexane) 98.5% Minimum	C2-24-004 (9439)	Nonane (n-Nonane) 99%	C2-21-004 (9457)
Silica Gel Reagent Grade	C2-27-007 (9456)	Toluene 99.9% Minimum	C2-24-006 (9445)		

Preparation Steps

Step: Extraction	Step: Acid Clean	Step: Silica Gel Clean	Step: Final Volume
Started: 7/30/09 06:30	Started: 7/30/09 08:00	Started: 7/30/09 12:00	Started: 8/4/09 08:00
Finished: 7/30/09 08:30	Finished: 7/30/09 08:00	Finished: 7/30/09 17:00	Finished: 8/4/09 17:00
By: AKODUR	By: AKODUR	By: AKODUR	By: AKODUR

Comments: _____

Reviewed By: Arthi Kodur Date: 8/10/09

Chain of Custody

Relinquished By: _____	Date: _____	<u>Extracts Examined</u>
Received By: _____	Date: _____	Yes No

Nonconformity and Corrective Action Report

NONCONFORMITY

PROCEDURE (SOP or METHOD): 1668

EVENT: Missed Holding Time QC Failure Lab Error (spilled sample, spiking error, etc.)
 Method Blank Contamination Login Error Project Management Error
 Equipment Failure Unacceptable PT Sample Result
 SOP Deviation Other (describe): **Overrange**

SAMPLES / PROJECTS / CUSTOMERS / SYSTEMS AFFECTED

Batch: EQ286

DETAILED DESCRIPTION

E0900543-005 needs dilution x 100

ORIGINATOR: Chris Elhardt

DATE: 08/06/09

CORRECTIVE ACTION AND OUTCOME

Re-establishment of conformity must be demonstrated and documented. Describe the steps that were taken, or are planned to be taken, to correct the particular Nonconformity and prevent its reoccurrence. Include any Project Manager instructions here.

Dilute sample with internal Std.

Is the data to be flagged in the Analytical Report with an appropriate qualifier? **No** **Yes**

APPROVAL AND NOTIFICATION

Supervisor Verification and Approval of Corrective Action Darren Biles

Date: 08/07/09

Comments:

QA PM Verification and Approval of Corrective Action Andrew Biddle

Date: 08/07/09

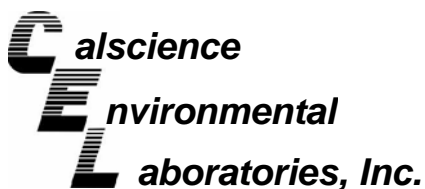
Comments:

Customer Notified by Telephone Fax E-mail Narrative Not notified

Project Manager Verification and Approval of Corrective Action JFreemyer 08/20/09 Date: _____

Comments:

(Attach record or cite reference where record is located.) Project folder archives



April 20, 2009

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 09-04-0705**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/8/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak", written in a cursive style.

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: N/A
Method: RSK-175M
Units: ug/L

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	09-04-0705-1-D	04/08/09 09:22	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	9.25	1.00	1		Methane	7530	40.0	40	
Ethylene	787	8.00	8						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	09-04-0705-2-D	04/08/09 10:22	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	10200	40.0	40	
Ethylene	11.8	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD180-MW2	09-04-0705-3-D	04/08/09 11:24	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	5000	40.0	40	
Ethylene	2.44	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	09-04-0705-4-D	04/08/09 12:34	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	8940	40.0	40	
Ethylene	9.61	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	09-04-0705-5-D	04/08/09 13:29	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	5.35	1.00	1		Methane	8830	40.0	40	
Ethylene	156	1.00	1						

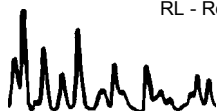
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FMY-MW1	09-04-0705-7-D	04/08/09 14:32	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	7590	40.0	40	
Ethylene	4.03	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-661-180	N/A	Aqueous	GC 33	N/A	04/09/09 00:00	090409L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/08/09
 Work Order No: 09-04-0705
 Preparation: N/A
 Method: HPLC/UV
 Units: mg/L

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	09-04-0705-1-H	04/08/09 09:22	Aqueous	HPLC 6	N/A	04/13/09 12:43	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	1900	100	100		Propionic Acid	78	10	10	
Butyric Acid	300	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	09-04-0705-2-H	04/08/09 10:22	Aqueous	HPLC 6	N/A	04/10/09 20:26	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	1400	40	40		Propionic Acid	18	1.0	1	
Butyric Acid	77	40	40		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD180-MW2	09-04-0705-3-H	04/08/09 11:24	Aqueous	HPLC 6	N/A	04/13/09 13:52	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	180	5.0	5		Propionic Acid	130	5.0	5	
Butyric Acid	22	5.0	5		Pyruvic Acid	ND	2.5	5	
Lactic Acid	ND	5.0	5						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	103	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	09-04-0705-4-H	04/08/09 12:34	Aqueous	HPLC 6	N/A	04/13/09 16:56	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	290	10	10		Propionic Acid	82	10	10	
Butyric Acid	ND	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/08/09
 Work Order No: 09-04-0705
 Preparation: N/A
 Method: HPLC/UV
 Units: mg/L

Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	09-04-0705-5-H	04/08/09 13:29	Aqueous	HPLC 6	N/A	04/13/09 14:38	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	1200	40	40		Propionic Acid	49	40	40	
Butyric Acid	150	40	40		Pyruvic Acid	ND	20	40	
Lactic Acid	ND	40	40						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	101	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FMY-MW1	09-04-0705-7-H	04/08/09 14:32	Aqueous	HPLC 6	N/A	04/13/09 15:01	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	230	10	10		Propionic Acid	150	10	10	
Butyric Acid	ND	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	103	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-016-187	N/A	Aqueous	HPLC 6	N/A	04/10/09 15:28	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	1.0	1		Propionic Acid	ND	1.0	1	
Butyric Acid	ND	1.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	101	80-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

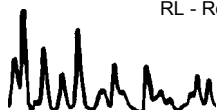
Project: Teledyne Ryan

Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW1	09-04-0705-1-B	04/08/09 09:22	Aqueous	GC/MS Z	04/10/09	04/11/09 05:01	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	500	10		1,3-Dichloropropane	ND	10	10	
Benzene	ND	5.0	10		2,2-Dichloropropane	ND	10	10	
Bromobenzene	ND	10	10		1,1-Dichloropropene	ND	10	10	
Bromochloromethane	ND	10	10		c-1,3-Dichloropropene	ND	5.0	10	
Bromodichloromethane	ND	10	10		t-1,3-Dichloropropene	ND	5.0	10	
Bromoform	ND	10	10		Ethylbenzene	ND	10	10	
Bromomethane	ND	100	10		2-Hexanone	ND	100	10	
2-Butanone	ND	100	10		Isopropylbenzene	ND	10	10	
n-Butylbenzene	ND	10	10		p-Isopropyltoluene	ND	10	10	
sec-Butylbenzene	ND	10	10		Methylene Chloride	ND	100	10	
tert-Butylbenzene	ND	10	10		4-Methyl-2-Pentanone	ND	100	10	
Carbon Disulfide	ND	100	10		Naphthalene	ND	100	10	
Carbon Tetrachloride	ND	5.0	10		n-Propylbenzene	ND	10	10	
Chlorobenzene	ND	10	10		Styrene	ND	10	10	
Chloroethane	ND	50	10		1,1,1,2-Tetrachloroethane	ND	10	10	
Chloroform	ND	10	10		1,1,2,2-Tetrachloroethane	ND	10	10	
Chloromethane	ND	100	10		Tetrachloroethene	ND	10	10	
2-Chlorotoluene	ND	10	10		Toluene	ND	10	10	
4-Chlorotoluene	ND	10	10		1,2,3-Trichlorobenzene	ND	10	10	
Dibromochloromethane	ND	10	10		1,2,4-Trichlorobenzene	ND	10	10	
1,2-Dibromo-3-Chloropropane	ND	50	10		1,1,1-Trichloroethane	ND	10	10	
1,2-Dibromoethane	ND	10	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10	
Dibromomethane	ND	10	10		1,1,2-Trichloroethane	ND	10	10	
1,2-Dichlorobenzene	ND	10	10		Trichloroethene	ND	10	10	
1,3-Dichlorobenzene	ND	10	10		Trichlorofluoromethane	ND	100	10	
1,4-Dichlorobenzene	ND	10	10		1,2,3-Trichloropropane	ND	50	10	
Dichlorodifluoromethane	ND	10	10		1,2,4-Trimethylbenzene	ND	10	10	
1,1-Dichloroethane	11	10	10		1,3,5-Trimethylbenzene	ND	10	10	
1,2-Dichloroethane	ND	5.0	10		Vinyl Acetate	ND	100	10	
1,1-Dichloroethene	ND	10	10		Vinyl Chloride	110	5.0	10	
c-1,2-Dichloroethene	1000	10	10		p/m-Xylene	ND	10	10	
t-1,2-Dichloroethene	24	10	10		o-Xylene	ND	10	10	
1,2-Dichloropropane	ND	10	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	113	82-130			1,2-Dichloroethane-d4	118	75-141		
Toluene-d8	106	83-113			1,4-Bromofluorobenzene	94	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

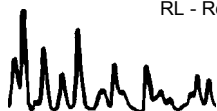
Project: Teledyne Ryan

Page 2 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW7	09-04-0705-2-B	04/08/09 10:22	Aqueous	GC/MS Z	04/10/09	04/11/09 05:30	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	0.61	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoforn	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	0.78	0.50	1	
c-1,2-Dichloroethene	1.2	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	1.0	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	121	82-130			1,2-Dichloroethane-d4	123	75-141		
Toluene-d8	106	83-113			1,4-Bromofluorobenzene	93	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

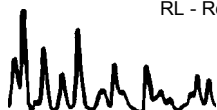
Project: Teledyne Ryan

Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD180-MW2	09-04-0705-3-B	04/08/09 11:24	Aqueous	GC/MS Z	04/10/09	04/11/09 05:59	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	1300	500	10		1,3-Dichloropropane	ND	10	10	
Benzene	ND	5.0	10		2,2-Dichloropropane	ND	10	10	
Bromobenzene	ND	10	10		1,1-Dichloropropene	ND	10	10	
Bromochloromethane	ND	10	10		c-1,3-Dichloropropene	ND	5.0	10	
Bromodichloromethane	ND	10	10		t-1,3-Dichloropropene	ND	5.0	10	
Bromoform	ND	10	10		Ethylbenzene	ND	10	10	
Bromomethane	ND	100	10		2-Hexanone	ND	100	10	
2-Butanone	ND	100	10		Isopropylbenzene	ND	10	10	
n-Butylbenzene	ND	10	10		p-Isopropyltoluene	ND	10	10	
sec-Butylbenzene	ND	10	10		Methylene Chloride	ND	100	10	
tert-Butylbenzene	ND	10	10		4-Methyl-2-Pentanone	ND	100	10	
Carbon Disulfide	ND	100	10		Naphthalene	ND	100	10	
Carbon Tetrachloride	ND	5.0	10		n-Propylbenzene	ND	10	10	
Chlorobenzene	ND	10	10		Styrene	ND	10	10	
Chloroethane	ND	50	10		1,1,1,2-Tetrachloroethane	ND	10	10	
Chloroform	ND	10	10		1,1,2,2-Tetrachloroethane	ND	10	10	
Chloromethane	ND	100	10		Tetrachloroethene	ND	10	10	
2-Chlorotoluene	ND	10	10		Toluene	ND	10	10	
4-Chlorotoluene	ND	10	10		1,2,3-Trichlorobenzene	ND	10	10	
Dibromochloromethane	ND	10	10		1,2,4-Trichlorobenzene	ND	10	10	
1,2-Dibromo-3-Chloropropane	ND	50	10		1,1,1-Trichloroethane	ND	10	10	
1,2-Dibromoethane	ND	10	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10	
Dibromomethane	ND	10	10		1,1,2-Trichloroethane	ND	10	10	
1,2-Dichlorobenzene	ND	10	10		Trichloroethene	ND	10	10	
1,3-Dichlorobenzene	ND	10	10		Trichlorofluoromethane	ND	100	10	
1,4-Dichlorobenzene	ND	10	10		1,2,3-Trichloropropane	ND	50	10	
Dichlorodifluoromethane	ND	10	10		1,2,4-Trimethylbenzene	ND	10	10	
1,1-Dichloroethane	ND	10	10		1,3,5-Trimethylbenzene	ND	10	10	
1,2-Dichloroethane	ND	5.0	10		Vinyl Acetate	ND	100	10	
1,1-Dichloroethene	ND	10	10		Vinyl Chloride	ND	5.0	10	
c-1,2-Dichloroethene	ND	10	10		p/m-Xylene	ND	10	10	
t-1,2-Dichloroethene	ND	10	10		o-Xylene	ND	10	10	
1,2-Dichloropropane	ND	10	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	119	82-130			1,2-Dichloroethane-d4	119	75-141		
Toluene-d8	103	83-113			1,4-Bromofluorobenzene	88	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

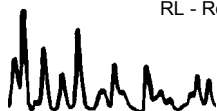
Project: Teledyne Ryan

Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW8	09-04-0705-4-B	04/08/09 12:34	Aqueous	GC/MS Z	04/10/09	04/11/09 06:28	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	600	250	5		1,3-Dichloropropane	ND	5.0	5	
Benzene	ND	2.5	5		2,2-Dichloropropane	ND	5.0	5	
Bromobenzene	ND	5.0	5		1,1-Dichloropropene	ND	5.0	5	
Bromochloromethane	ND	5.0	5		c-1,3-Dichloropropene	ND	2.5	5	
Bromodichloromethane	ND	5.0	5		t-1,3-Dichloropropene	ND	2.5	5	
Bromoform	ND	5.0	5		Ethylbenzene	ND	5.0	5	
Bromomethane	ND	50	5		2-Hexanone	ND	50	5	
2-Butanone	ND	50	5		Isopropylbenzene	ND	5.0	5	
n-Butylbenzene	ND	5.0	5		p-Isopropyltoluene	ND	5.0	5	
sec-Butylbenzene	ND	5.0	5		Methylene Chloride	ND	50	5	
tert-Butylbenzene	ND	5.0	5		4-Methyl-2-Pentanone	ND	50	5	
Carbon Disulfide	ND	50	5		Naphthalene	ND	50	5	
Carbon Tetrachloride	ND	2.5	5		n-Propylbenzene	ND	5.0	5	
Chlorobenzene	ND	5.0	5		Styrene	ND	5.0	5	
Chloroethane	ND	25	5		1,1,1,2-Tetrachloroethane	ND	5.0	5	
Chloroform	ND	5.0	5		1,1,2,2-Tetrachloroethane	ND	5.0	5	
Chloromethane	ND	50	5		Tetrachloroethene	ND	5.0	5	
2-Chlorotoluene	ND	5.0	5		Toluene	ND	5.0	5	
4-Chlorotoluene	ND	5.0	5		1,2,3-Trichlorobenzene	ND	5.0	5	
Dibromochloromethane	ND	5.0	5		1,2,4-Trichlorobenzene	ND	5.0	5	
1,2-Dibromo-3-Chloropropane	ND	25	5		1,1,1-Trichloroethane	ND	5.0	5	
1,2-Dibromoethane	ND	5.0	5		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	5	
Dibromomethane	ND	5.0	5		1,1,2-Trichloroethane	ND	5.0	5	
1,2-Dichlorobenzene	ND	5.0	5		Trichloroethene	ND	5.0	5	
1,3-Dichlorobenzene	ND	5.0	5		Trichlorofluoromethane	ND	50	5	
1,4-Dichlorobenzene	ND	5.0	5		1,2,3-Trichloropropane	ND	25	5	
Dichlorodifluoromethane	ND	5.0	5		1,2,4-Trimethylbenzene	ND	5.0	5	
1,1-Dichloroethane	ND	5.0	5		1,3,5-Trimethylbenzene	ND	5.0	5	
1,2-Dichloroethane	ND	2.5	5		Vinyl Acetate	ND	50	5	
1,1-Dichloroethene	ND	5.0	5		Vinyl Chloride	3.3	2.5	5	
c-1,2-Dichloroethene	11	5.0	5		p/m-Xylene	ND	5.0	5	
t-1,2-Dichloroethene	ND	5.0	5		o-Xylene	ND	5.0	5	
1,2-Dichloropropane	ND	5.0	5		Methyl-t-Butyl Ether (MTBE)	ND	5.0	5	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	111	82-130			1,2-Dichloroethane-d4	121	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	89	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

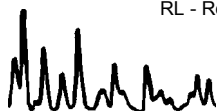
Project: Teledyne Ryan

Page 5 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW9	09-04-0705-5-B	04/08/09 13:29	Aqueous	GC/MS Z	04/10/09	04/11/09 06:57	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	500	10		1,3-Dichloropropane	ND	10	10	
Benzene	ND	5.0	10		2,2-Dichloropropane	ND	10	10	
Bromobenzene	ND	10	10		1,1-Dichloropropene	ND	10	10	
Bromochloromethane	ND	10	10		c-1,3-Dichloropropene	ND	5.0	10	
Bromodichloromethane	ND	10	10		t-1,3-Dichloropropene	ND	5.0	10	
Bromoform	ND	10	10		Ethylbenzene	ND	10	10	
Bromomethane	ND	100	10		2-Hexanone	ND	100	10	
2-Butanone	ND	100	10		Isopropylbenzene	ND	10	10	
n-Butylbenzene	ND	10	10		p-Isopropyltoluene	ND	10	10	
sec-Butylbenzene	ND	10	10		Methylene Chloride	ND	100	10	
tert-Butylbenzene	ND	10	10		4-Methyl-2-Pentanone	ND	100	10	
Carbon Disulfide	ND	100	10		Naphthalene	ND	100	10	
Carbon Tetrachloride	ND	5.0	10		n-Propylbenzene	ND	10	10	
Chlorobenzene	ND	10	10		Styrene	ND	10	10	
Chloroethane	ND	50	10		1,1,1,2-Tetrachloroethane	ND	10	10	
Chloroform	ND	10	10		1,1,2,2-Tetrachloroethane	ND	10	10	
Chloromethane	ND	100	10		Tetrachloroethene	ND	10	10	
2-Chlorotoluene	ND	10	10		Toluene	ND	10	10	
4-Chlorotoluene	ND	10	10		1,2,3-Trichlorobenzene	ND	10	10	
Dibromochloromethane	ND	10	10		1,2,4-Trichlorobenzene	ND	10	10	
1,2-Dibromo-3-Chloropropane	ND	50	10		1,1,1-Trichloroethane	ND	10	10	
1,2-Dibromoethane	ND	10	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10	
Dibromomethane	ND	10	10		1,1,2-Trichloroethane	ND	10	10	
1,2-Dichlorobenzene	ND	10	10		Trichloroethene	ND	10	10	
1,3-Dichlorobenzene	ND	10	10		Trichlorofluoromethane	ND	100	10	
1,4-Dichlorobenzene	ND	10	10		1,2,3-Trichloropropane	ND	50	10	
Dichlorodifluoromethane	ND	10	10		1,2,4-Trimethylbenzene	ND	10	10	
1,1-Dichloroethane	15	10	10		1,3,5-Trimethylbenzene	ND	10	10	
1,2-Dichloroethane	ND	5.0	10		Vinyl Acetate	ND	100	10	
1,1-Dichloroethene	11	10	10		Vinyl Chloride	44	5.0	10	
c-1,2-Dichloroethene	1100	10	10		p/m-Xylene	ND	10	10	
t-1,2-Dichloroethene	14	10	10		o-Xylene	ND	10	10	
1,2-Dichloropropane	ND	10	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	105	82-130			1,2-Dichloroethane-d4	114	75-141		
Toluene-d8	98	83-113			1,4-Bromofluorobenzene	88	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/08/09
 Work Order No: 09-04-0705
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

Page 6 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-1	09-04-0705-6-B	04/08/09 13:45	Aqueous	GC/MS Z	04/10/09	04/11/09 07:26	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	120	82-130			1,2-Dichloroethane-d4	128	75-141		
Toluene-d8	102	83-113			1,4-Bromofluorobenzene	91	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

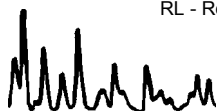
Project: Teledyne Ryan

Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
FMY-MW1	09-04-0705-7-B	04/08/09 14:32	Aqueous	GC/MS Z	04/10/09	04/11/09 07:55	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	3400	1000	20		1,3-Dichloropropane	ND	20	20	
Benzene	ND	10	20		2,2-Dichloropropane	ND	20	20	
Bromobenzene	ND	20	20		1,1-Dichloropropene	ND	20	20	
Bromochloromethane	ND	20	20		c-1,3-Dichloropropene	ND	10	20	
Bromodichloromethane	ND	20	20		t-1,3-Dichloropropene	ND	10	20	
Bromoform	ND	20	20		Ethylbenzene	ND	20	20	
Bromomethane	ND	200	20		2-Hexanone	ND	200	20	
2-Butanone	ND	200	20		Isopropylbenzene	ND	20	20	
n-Butylbenzene	ND	20	20		p-Isopropyltoluene	ND	20	20	
sec-Butylbenzene	ND	20	20		Methylene Chloride	ND	200	20	
tert-Butylbenzene	ND	20	20		4-Methyl-2-Pentanone	ND	200	20	
Carbon Disulfide	ND	200	20		Naphthalene	ND	200	20	
Carbon Tetrachloride	ND	10	20		n-Propylbenzene	ND	20	20	
Chlorobenzene	ND	20	20		Styrene	ND	20	20	
Chloroethane	ND	100	20		1,1,1,2-Tetrachloroethane	ND	20	20	
Chloroform	ND	20	20		1,1,2,2-Tetrachloroethane	ND	20	20	
Chloromethane	ND	200	20		Tetrachloroethene	ND	20	20	
2-Chlorotoluene	ND	20	20		Toluene	ND	20	20	
4-Chlorotoluene	ND	20	20		1,2,3-Trichlorobenzene	ND	20	20	
Dibromochloromethane	ND	20	20		1,2,4-Trichlorobenzene	ND	20	20	
1,2-Dibromo-3-Chloropropane	ND	100	20		1,1,1-Trichloroethane	ND	20	20	
1,2-Dibromoethane	ND	20	20		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	200	20	
Dibromomethane	ND	20	20		1,1,2-Trichloroethane	ND	20	20	
1,2-Dichlorobenzene	ND	20	20		Trichloroethene	ND	20	20	
1,3-Dichlorobenzene	ND	20	20		Trichlorofluoromethane	ND	200	20	
1,4-Dichlorobenzene	ND	20	20		1,2,3-Trichloropropane	ND	100	20	
Dichlorodifluoromethane	ND	20	20		1,2,4-Trimethylbenzene	ND	20	20	
1,1-Dichloroethane	ND	20	20		1,3,5-Trimethylbenzene	ND	20	20	
1,2-Dichloroethane	ND	10	20		Vinyl Acetate	ND	200	20	
1,1-Dichloroethene	ND	20	20		Vinyl Chloride	ND	10	20	
c-1,2-Dichloroethene	ND	20	20		p/m-Xylene	ND	20	20	
t-1,2-Dichloroethene	ND	20	20		o-Xylene	ND	20	20	
1,2-Dichloropropane	ND	20	20		Methyl-t-Butyl Ether (MTBE)	ND	20	20	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	114	82-130			1,2-Dichloroethane-d4	116	75-141		
Toluene-d8	100	83-113			1,4-Bromofluorobenzene	88	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

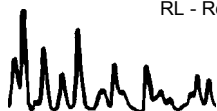
Project: Teledyne Ryan

Page 8 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-1	09-04-0705-8-A	04/08/09 08:00	Aqueous	GC/MS Z	04/10/09	04/11/09 08:24	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	112	82-130			1,2-Dichloroethane-d4	123	75-141		
Toluene-d8	93	83-113			1,4-Bromofluorobenzene	88	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

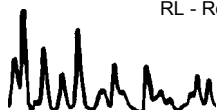
Project: Teledyne Ryan

Page 9 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,122	N/A	Aqueous	GC/MS Z	04/10/09	04/11/09 00:39	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	119	82-130			1,2-Dichloroethane-d4	122	75-141		
Toluene-d8	103	83-113			1,4-Bromofluorobenzene	92	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705

Project: Teledyne Ryan

Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW1	09-04-0705-1	04/08/09	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	330	10	10		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	0.34	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	2.7	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.50	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	1100	100	200		mg/L	N/A	04/08/09	SM 5310 D

BLD120-MW7	09-04-0705-2	04/08/09	Aqueous
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Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	780	20	20		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate (3)	2.4	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.40	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	740	25	50		mg/L	N/A	04/08/09	SM 5310 D

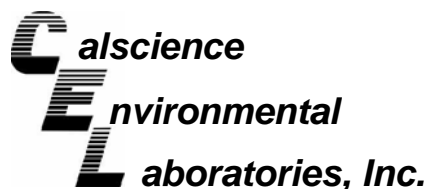
BLD180-MW2	09-04-0705-3	04/08/09	Aqueous
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Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	680	20	20		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate (3)	2.9	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.80	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	280	25	50		mg/L	N/A	04/08/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers





Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/08/09
Work Order No: 09-04-0705

Project: Teledyne Ryan

Page 2 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW8	09-04-0705-4	04/08/09	Aqueous

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	130	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	2.2	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.30	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	210	10	20		mg/L	N/A	04/08/09	SM 5310 D

BLD120-MW9	09-04-0705-5	04/08/09	Aqueous
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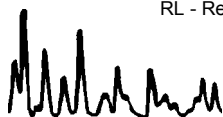
Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	210	5.0	5		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	0.13	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	2.4	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.50	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	660	25	50		mg/L	N/A	04/08/09	SM 5310 D

FMY-MW1	09-04-0705-7	04/08/09	Aqueous
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Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	480	10	10		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate (3)	2.6	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	3.8	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	310	25	50		mg/L	N/A	04/08/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/08/09
 Work Order No: 09-04-0705

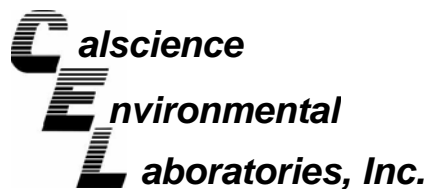
Project: Teledyne Ryan

Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Chloride	ND	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	04/08/09	SM 5310 D
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	04/08/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

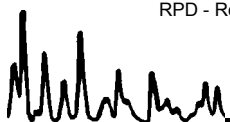
Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: N/A
Method: HPLC/UV

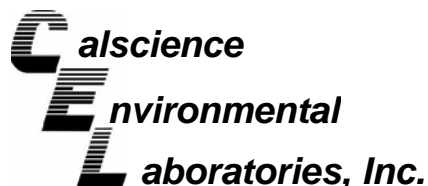
Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-04-0404-1	Aqueous	HPLC 6	N/A	04/10/09	090410S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	110	110	70-130	0	0-30	
Butyric Acid	96	99	70-130	3	0-30	
Lactic Acid	98	98	70-130	0	0-30	
Propionic Acid	98	101	70-130	3	0-30	
Pyruvic Acid	105	111	70-130	6	0-30	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

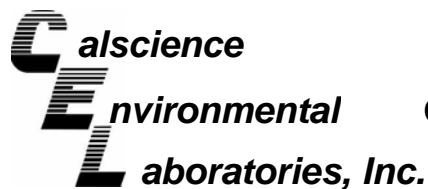
Date Received: 04/08/09
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B

Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-04-0518-3	Aqueous	GC/MS Z	04/10/09	04/11/09	090410S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	94	98	88-118	5	0-7	
Carbon Tetrachloride	93	93	67-145	0	0-11	
Chlorobenzene	84	90	88-118	8	0-7	3,4
1,2-Dibromoethane	100	101	70-130	1	0-30	
1,2-Dichlorobenzene	94	95	86-116	1	0-8	
1,1-Dichloroethene	87	91	70-130	4	0-25	
Ethylbenzene	94	98	70-130	4	0-30	
Toluene	97	98	87-123	2	0-8	
Trichloroethene	73	76	79-127	2	0-10	3
Vinyl Chloride	91	98	69-129	7	0-13	
Methyl-t-Butyl Ether (MTBE)	98	107	71-131	9	0-13	
Tert-Butyl Alcohol (TBA)	105	99	36-168	5	0-45	
Diisopropyl Ether (DIPE)	95	103	81-123	8	0-9	
Ethyl-t-Butyl Ether (ETBE)	91	102	72-126	11	0-12	
Tert-Amyl-Methyl Ether (TAME)	103	110	72-126	6	0-12	
Ethanol	102	107	53-149	5	0-31	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

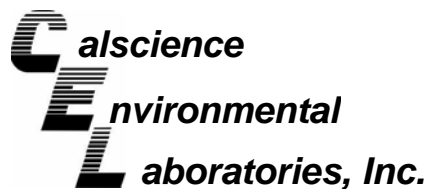
Date Received: N/A
Work Order No: 09-04-0705

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	09-04-0706-1	04/09/09	N/A	104	105	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	09-04-0706-1	04/09/09	N/A	91	91	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	09-04-0706-1	04/09/09	N/A	103	103	80-120	0	0-20	
Sulfate	EPA 300.0	09-04-0706-1	04/09/09	N/A	107	108	80-120	0	0-20	
Carbon, Total Organic	SM 5310 D	09-04-0585-1	04/08/09	N/A	105	106	70-130	0	0-25	
Carbon, Total Organic	SM 5310 D	BLD120-MW9	04/08/09	N/A	106	114	70-130	2	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

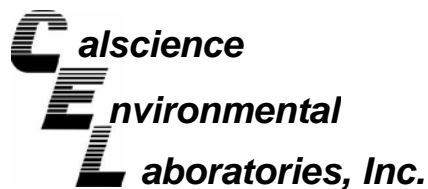
Date Received: N/A
Work Order No: 09-04-0705

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	09-04-0645-1	04/13/09	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

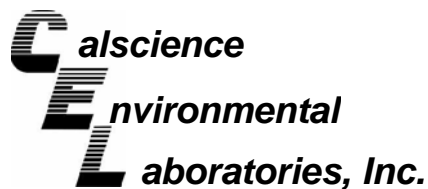
Date Received: N/A
Work Order No: 09-04-0705
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-180	Aqueous	GC 33	N/A	04/09/09	090409L02

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	96	94	80-120	2	0-20	
Methane	101	98	79-109	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
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San Diego, CA 92127-2116

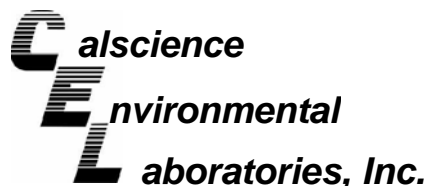
Date Received: N/A
Work Order No: 09-04-0705
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-187	Aqueous	HPLC 6	N/A	04/10/09	090410L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Acetic Acid	106	110	80-120	4	0-20	
Butyric Acid	101	98	80-120	3	0-20	
Lactic Acid	103	102	80-120	1	0-20	
Propionic Acid	101	101	80-120	1	0-20	
Pyruvic Acid	95	96	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-04-0705
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-29,122	Aqueous	GC/MS Z	04/10/09	04/10/09	090410L02		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	100	102	84-120	78-126	2	0-8	
Carbon Tetrachloride	105	106	63-147	49-161	1	0-10	
Chlorobenzene	94	98	89-119	84-124	5	0-7	
1,2-Dibromoethane	104	106	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	100	101	89-119	84-124	0	0-9	
1,1-Dichloroethene	99	105	77-125	69-133	5	0-16	
Ethylbenzene	101	107	80-120	73-127	5	0-20	
Toluene	101	102	83-125	76-132	1	0-9	
Trichloroethene	116	117	89-119	84-124	1	0-8	
Vinyl Chloride	108	109	63-135	51-147	0	0-13	
Methyl-t-Butyl Ether (MTBE)	99	99	82-118	76-124	0	0-13	
Tert-Butyl Alcohol (TBA)	96	98	46-154	28-172	2	0-32	
Diisopropyl Ether (DIPE)	98	99	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	97	100	74-122	66-130	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	106	106	76-124	68-132	1	0-10	
Ethanol	95	99	60-138	47-151	4	0-32	

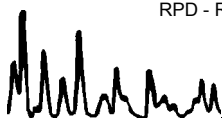
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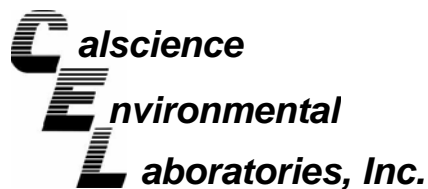
Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:
Work Order No:

N/A
09-04-0705

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-116	N/A	04/09/09	109	109	90-110	0	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-116	N/A	04/09/09	94	94	90-110	1	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-116	N/A	04/09/09	108	108	90-110	0	0-15	
Sulfate	EPA 300.0	099-12-906-116	N/A	04/09/09	106	106	90-110	0	0-15	

RPD - Relative Percent Difference , CL - Control Limit



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received:
 Work Order No:

N/A
 09-04-0705

Project: Teledyne Ryan

Matrix : Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> <u>Sample ID</u>	<u>Date</u> <u>Analyzed</u>	<u>Date</u> <u>Extracted</u>	<u>Conc.</u> <u>Added</u>	<u>Conc.</u> <u>Recovered</u>	<u>LCS</u> <u>%Rec</u>	<u>%Rec.</u> <u>CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 D	099-05-097-3,363	04/08/09	N/A	5.00	5.53	111	80-120	
Carbon, Total Organic	SM 5310 D	099-05-097-3,372	04/08/09	N/A	5.00	5.48	110	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 09-04-0705

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



0705

BLAINE
 1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7774
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY
 CLIENT Geosyntec
 SITE Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

LAB CalScience
 SPECIAL INSTRUCTIONS
 *Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
 **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
 Brian Hitchens
 Geosyntec: 10875 Rancho Bernardo Rd, suite 200
 San Diego, CA 92127
 (858) 674-6559

CONDUCT ANALYSIS TO DETECT		DHS #
ETHENE/ETHANE/METHANE (RSK 175)	VOCS BY 8260B	
SVOCs 8270 SIM Super	TPH (8015)	
PCBS (1668A)	Metals (6010B/7470A)	
1,4-Dioxane (Modified 8270)*	EISB Sampling Suite*	
Total Chromium/Hexavalent Chromium		

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS	TYPE	TOTAL	STATUS	CONDITION	LAB SAMPLE #
1 BLD130-MW1	04-08-09	0922	W	10	various	10	X		
2 BLD130-MW7		1022					X		
3 BLD130-MW2		1124					X		
4 BLD130-MW8		1234					X		
5 BLD130-MW9		1329					X		
6 CEB-1		1345		3	VOA	3	X		
7 FMK-MW1		1432		10	various	10	X		
8 TB-1		0800		2	VOA	2	X		

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED	
04-08-09	04-08-09	1435	Chris Davids	NO LATER THAN	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Chris Davids	04-08-09	1453	[Signature]	4/8/9	1453
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[Signature]	4/8/9	1651	[Signature]	4/8/09	1651
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[Signature]	4/8/9	1651	[Signature]	4/8/09	1651

SHIPPED VIA DATE SENT TIME SENT COOLER #

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blaine Tech

DATE: 4/8/19

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen)

Temperature 3.3 °C - 0.2°C (CF) = 3.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: [Signature]

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: [Signature]

Sample _____ No (Not Intact) Not Present Initial: _____

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA VOA⁵h VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

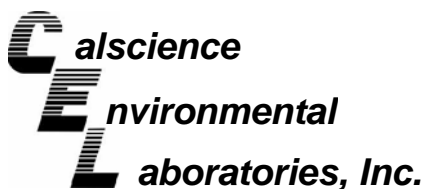
500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz₂na 100PBsterile 100PBna₂ VOA₂² _____ _____

Air: Tedlar® Summa® _____ **Sludge/Other:** _____ **Checked/Labeled by:** T.N

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) **Reviewed by:** [Signature]

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z₂na: ZnAc₂+NaOH **Scanned by:** T.N



April 20, 2009

Brian Hitchens
GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Subject: **Calscience Work Order No.: 09-04-0845**
Client Reference: Teledyne Ryan

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/9/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Nowak".

Calscience Environmental
Laboratories, Inc.
Stephen Nowak
Project Manager

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: N/A
 Method: RSK-175M
 Units: ug/L

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	09-04-0845-1-D	04/09/09 07:27	Aqueous	GC 33	N/A	04/10/09 00:00	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	1.37	1.00	1		Methane	4130	20.0	20	
Ethylene	770	20.0	20						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	09-04-0845-2-D	04/09/09 06:49	Aqueous	GC 33	N/A	04/10/09 00:00	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	4.05	1.00	1		Methane	6490	20.0	20	
Ethylene	100	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	09-04-0845-3-D	04/09/09 08:21	Aqueous	GC 33	N/A	04/10/09 00:00	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	1.66	1.00	1		Methane	7220	40.0	40	
Ethylene	128	1.00	1						

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-661-181	N/A	Aqueous	GC 33	N/A	04/10/09 00:00	090410L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Ethane	ND	1.00	1		Methane	ND	1.00	1	
Ethylene	ND	1.00	1						

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: N/A
 Method: HPLC/UV
 Units: mg/L

Project: Teledyne Ryan

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	09-04-0845-1-F	04/09/09 07:27	Aqueous	HPLC 6	N/A	04/13/09 15:24	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	2100	100	100		Propionic Acid	42	10	10	
Butyric Acid	180	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	09-04-0845-2-F	04/09/09 06:49	Aqueous	HPLC 6	N/A	04/13/09 16:10	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	2600	100	100		Propionic Acid	290	10	10	
Butyric Acid	300	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	09-04-0845-3-F	04/09/09 08:21	Aqueous	HPLC 6	N/A	04/13/09 16:33	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	180	10	10		Propionic Acid	ND	10	10	
Butyric Acid	ND	10	10		Pyruvic Acid	ND	5.0	10	
Lactic Acid	ND	10	10						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	102	80-120							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-016-187	N/A	Aqueous	HPLC 6	N/A	04/10/09 15:28	090410L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetic Acid	ND	1.0	1		Propionic Acid	ND	1.0	1	
Butyric Acid	ND	1.0	1		Pyruvic Acid	ND	0.50	1	
Lactic Acid	ND	1.0	1						
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromopropionic Acid	101	80-120							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/09/09
Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

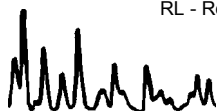
Project: Teledyne Ryan

Page 1 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW2	09-04-0845-1-A	04/09/09 07:27	Aqueous	GC/MS Q	04/11/09	04/12/09 05:09	090411L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	500	10		1,3-Dichloropropane	ND	10	10	
Benzene	ND	5.0	10		2,2-Dichloropropane	ND	10	10	
Bromobenzene	ND	10	10		1,1-Dichloropropene	ND	10	10	
Bromochloromethane	ND	10	10		c-1,3-Dichloropropene	ND	5.0	10	
Bromodichloromethane	ND	10	10		t-1,3-Dichloropropene	ND	5.0	10	
Bromoform	ND	10	10		Ethylbenzene	ND	10	10	
Bromomethane	ND	100	10		2-Hexanone	ND	100	10	
2-Butanone	ND	100	10		Isopropylbenzene	ND	10	10	
n-Butylbenzene	ND	10	10		p-Isopropyltoluene	ND	10	10	
sec-Butylbenzene	ND	10	10		Methylene Chloride	ND	100	10	
tert-Butylbenzene	ND	10	10		4-Methyl-2-Pentanone	ND	100	10	
Carbon Disulfide	ND	100	10		Naphthalene	ND	100	10	
Carbon Tetrachloride	ND	5.0	10		n-Propylbenzene	ND	10	10	
Chlorobenzene	ND	10	10		Styrene	ND	10	10	
Chloroethane	ND	50	10		1,1,1,2-Tetrachloroethane	ND	10	10	
Chloroform	ND	10	10		1,1,2,2-Tetrachloroethane	ND	10	10	
Chloromethane	ND	100	10		Tetrachloroethene	1800	10	10	
2-Chlorotoluene	ND	10	10		Toluene	ND	10	10	
4-Chlorotoluene	ND	10	10		1,2,3-Trichlorobenzene	ND	10	10	
Dibromochloromethane	ND	10	10		1,2,4-Trichlorobenzene	ND	10	10	
1,2-Dibromo-3-Chloropropane	ND	50	10		1,1,1-Trichloroethane	ND	10	10	
1,2-Dibromoethane	ND	10	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10	
Dibromomethane	ND	10	10		1,1,2-Trichloroethane	ND	10	10	
1,2-Dichlorobenzene	ND	10	10		Trichloroethene	620	10	10	
1,3-Dichlorobenzene	ND	10	10		Trichlorofluoromethane	ND	100	10	
1,4-Dichlorobenzene	ND	10	10		1,2,3-Trichloropropane	ND	50	10	
Dichlorodifluoromethane	ND	10	10		1,2,4-Trimethylbenzene	ND	10	10	
1,1-Dichloroethane	ND	10	10		1,3,5-Trimethylbenzene	ND	10	10	
1,2-Dichloroethane	ND	5.0	10		Vinyl Acetate	ND	100	10	
1,1-Dichloroethene	10	10	10		Vinyl Chloride	1500	5.0	10	
c-1,2-Dichloroethene	3300	50	50		p/m-Xylene	ND	10	10	
t-1,2-Dichloroethene	47	10	10		o-Xylene	ND	10	10	
1,2-Dichloropropane	ND	10	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	101	82-130			1,2-Dichloroethane-d4	101	75-141		
Toluene-d8	98	83-113			1,4-Bromofluorobenzene	97	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

Page 2 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW3	09-04-0845-2-A	04/09/09 06:49	Aqueous	GC/MS Q	04/11/09	04/12/09 05:39	090411L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	500	10		1,3-Dichloropropane	ND	10	10	
Benzene	ND	5.0	10		2,2-Dichloropropane	ND	10	10	
Bromobenzene	ND	10	10		1,1-Dichloropropene	ND	10	10	
Bromochloromethane	ND	10	10		c-1,3-Dichloropropene	ND	5.0	10	
Bromodichloromethane	ND	10	10		t-1,3-Dichloropropene	ND	5.0	10	
Bromoform	ND	10	10		Ethylbenzene	ND	10	10	
Bromomethane	ND	100	10		2-Hexanone	ND	100	10	
2-Butanone	ND	100	10		Isopropylbenzene	ND	10	10	
n-Butylbenzene	ND	10	10		p-Isopropyltoluene	ND	10	10	
sec-Butylbenzene	ND	10	10		Methylene Chloride	ND	100	10	
tert-Butylbenzene	ND	10	10		4-Methyl-2-Pentanone	ND	100	10	
Carbon Disulfide	ND	100	10		Naphthalene	ND	100	10	
Carbon Tetrachloride	ND	5.0	10		n-Propylbenzene	ND	10	10	
Chlorobenzene	ND	10	10		Styrene	ND	10	10	
Chloroethane	ND	50	10		1,1,1,2-Tetrachloroethane	ND	10	10	
Chloroform	ND	10	10		1,1,2,2-Tetrachloroethane	ND	10	10	
Chloromethane	ND	100	10		Tetrachloroethene	38	10	10	
2-Chlorotoluene	ND	10	10		Toluene	ND	10	10	
4-Chlorotoluene	ND	10	10		1,2,3-Trichlorobenzene	ND	10	10	
Dibromochloromethane	ND	10	10		1,2,4-Trichlorobenzene	ND	10	10	
1,2-Dibromo-3-Chloropropane	ND	50	10		1,1,1-Trichloroethane	ND	10	10	
1,2-Dibromoethane	ND	10	10		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	100	10	
Dibromomethane	ND	10	10		1,1,2-Trichloroethane	ND	10	10	
1,2-Dichlorobenzene	ND	10	10		Trichloroethene	11	10	10	
1,3-Dichlorobenzene	ND	10	10		Trichlorofluoromethane	ND	100	10	
1,4-Dichlorobenzene	ND	10	10		1,2,3-Trichloropropane	ND	50	10	
Dichlorodifluoromethane	ND	10	10		1,2,4-Trimethylbenzene	ND	10	10	
1,1-Dichloroethane	ND	10	10		1,3,5-Trimethylbenzene	ND	10	10	
1,2-Dichloroethane	ND	5.0	10		Vinyl Acetate	ND	100	10	
1,1-Dichloroethene	ND	10	10		Vinyl Chloride	18	5.0	10	
c-1,2-Dichloroethene	620	10	10		p/m-Xylene	ND	10	10	
t-1,2-Dichloroethene	16	10	10		o-Xylene	ND	10	10	
1,2-Dichloropropane	ND	10	10		Methyl-t-Butyl Ether (MTBE)	ND	10	10	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	100	82-130			1,2-Dichloroethane-d4	101	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	97	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

Page 3 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
BLD120-MW6	09-04-0845-3-B	04/09/09 08:21	Aqueous	GC/MS Q	04/13/09	04/14/09 05:28	090413L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	2.5	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	1.7	0.50	1	
c-1,2-Dichloroethene	5.7	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	1.2	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	102	82-130			1,2-Dichloroethane-d4	92	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	96	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
QCEB-2	09-04-0845-4-A	04/09/09 08:45	Aqueous	GC/MS Q	04/11/09	04/12/09 06:38	090411L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	82-130			1,2-Dichloroethane-d4	109	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	97	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: 04/09/09
Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

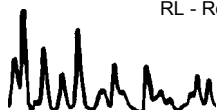
Project: Teledyne Ryan

Page 5 of 7

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB-2	09-04-0845-5-A	04/09/09 06:00	Aqueous	GC/MS Q	04/11/09	04/12/09 07:08	090411L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	100	82-130			1,2-Dichloroethane-d4	107	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	97	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,124	N/A	Aqueous	GC/MS Q	04/11/09	04/12/09 04:39	090411L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	103	82-130			1,2-Dichloroethane-d4	106	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	98	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845
 Preparation: EPA 5030B
 Method: EPA 8260B
 Units: ug/L

Project: Teledyne Ryan

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-10-006-29,135	N/A	Aqueous	GC/MS Q	04/13/09	04/14/09 04:58	090413L03

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Acetone	ND	50	1		1,3-Dichloropropane	ND	1.0	1	
Benzene	ND	0.50	1		2,2-Dichloropropane	ND	1.0	1	
Bromobenzene	ND	1.0	1		1,1-Dichloropropene	ND	1.0	1	
Bromochloromethane	ND	1.0	1		c-1,3-Dichloropropene	ND	0.50	1	
Bromodichloromethane	ND	1.0	1		t-1,3-Dichloropropene	ND	0.50	1	
Bromoform	ND	1.0	1		Ethylbenzene	ND	1.0	1	
Bromomethane	ND	10	1		2-Hexanone	ND	10	1	
2-Butanone	ND	10	1		Isopropylbenzene	ND	1.0	1	
n-Butylbenzene	ND	1.0	1		p-Isopropyltoluene	ND	1.0	1	
sec-Butylbenzene	ND	1.0	1		Methylene Chloride	ND	10	1	
tert-Butylbenzene	ND	1.0	1		4-Methyl-2-Pentanone	ND	10	1	
Carbon Disulfide	ND	10	1		Naphthalene	ND	10	1	
Carbon Tetrachloride	ND	0.50	1		n-Propylbenzene	ND	1.0	1	
Chlorobenzene	ND	1.0	1		Styrene	ND	1.0	1	
Chloroethane	ND	5.0	1		1,1,1,2-Tetrachloroethane	ND	1.0	1	
Chloroform	ND	1.0	1		1,1,2,2-Tetrachloroethane	ND	1.0	1	
Chloromethane	ND	10	1		Tetrachloroethene	ND	1.0	1	
2-Chlorotoluene	ND	1.0	1		Toluene	ND	1.0	1	
4-Chlorotoluene	ND	1.0	1		1,2,3-Trichlorobenzene	ND	1.0	1	
Dibromochloromethane	ND	1.0	1		1,2,4-Trichlorobenzene	ND	1.0	1	
1,2-Dibromo-3-Chloropropane	ND	5.0	1		1,1,1-Trichloroethane	ND	1.0	1	
1,2-Dibromoethane	ND	1.0	1		1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	1	
Dibromomethane	ND	1.0	1		1,1,2-Trichloroethane	ND	1.0	1	
1,2-Dichlorobenzene	ND	1.0	1		Trichloroethene	ND	1.0	1	
1,3-Dichlorobenzene	ND	1.0	1		Trichlorofluoromethane	ND	10	1	
1,4-Dichlorobenzene	ND	1.0	1		1,2,3-Trichloropropane	ND	5.0	1	
Dichlorodifluoromethane	ND	1.0	1		1,2,4-Trimethylbenzene	ND	1.0	1	
1,1-Dichloroethane	ND	1.0	1		1,3,5-Trimethylbenzene	ND	1.0	1	
1,2-Dichloroethane	ND	0.50	1		Vinyl Acetate	ND	10	1	
1,1-Dichloroethene	ND	1.0	1		Vinyl Chloride	ND	0.50	1	
c-1,2-Dichloroethene	ND	1.0	1		p/m-Xylene	ND	1.0	1	
t-1,2-Dichloroethene	ND	1.0	1		o-Xylene	ND	1.0	1	
1,2-Dichloropropane	ND	1.0	1		Methyl-t-Butyl Ether (MTBE)	ND	1.0	1	
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>	<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>		<u>Qual</u>
Dibromofluoromethane	98	82-130			1,2-Dichloroethane-d4	90	75-141		
Toluene-d8	99	83-113			1,4-Bromofluorobenzene	96	70-118		

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845

Project: Teledyne Ryan

Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
BLD120-MW2	09-04-0845-1	04/09/09	Aqueous

Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	210	10	10		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate (3)	2.5	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.30	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	1100	100	200		mg/L	N/A	04/10/09	SM 5310 D

BLD120-MW3	09-04-0845-2	04/09/09	Aqueous
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Comment(s): (3) The reporting limit is elevated resulting from matrix interference.

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	450	10	10		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N) (3)	ND	0.20	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfate (3)	3.0	2.0	2		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	0.80	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	1700	100	200		mg/L	N/A	04/10/09	SM 5310 D

BLD120-MW6	09-04-0845-3	04/09/09	Aqueous
-------------------	---------------------	-----------------	----------------

Parameter	Result	RL	DF	Qual	Units	Date Prepared	Date Analyzed	Method
Chloride	240	10	10		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	2.7	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	1.3	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	100	25	50		mg/L	N/A	04/10/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Analytical Report



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received: 04/09/09
 Work Order No: 09-04-0845

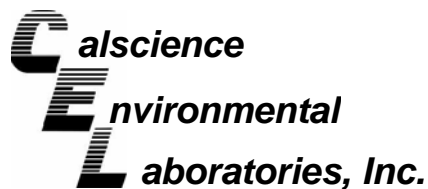
Project: Teledyne Ryan

Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix
Method Blank		N/A	Aqueous

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qual</u>	<u>Units</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Method</u>
Chloride	ND	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrite (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Nitrate (as N)	ND	0.10	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfate	ND	1.0	1		mg/L	N/A	04/09/09	EPA 300.0
Sulfide, Total	ND	0.050	1		mg/L	04/13/09	04/13/09	SM 4500 S2 - D
Carbon, Total Organic	ND	0.50	1		mg/L	N/A	04/10/09	SM 5310 D

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

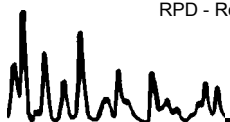
Date Received: 04/09/09
Work Order No: 09-04-0845
Preparation: N/A
Method: HPLC/UV

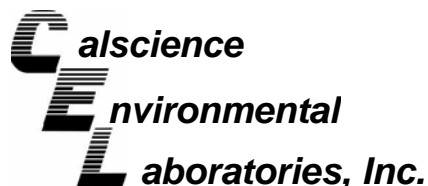
Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-04-0404-1	Aqueous	HPLC 6	N/A	04/10/09	090410S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Acetic Acid	110	110	70-130	0	0-30	
Butyric Acid	96	99	70-130	3	0-30	
Lactic Acid	98	98	70-130	0	0-30	
Propionic Acid	98	101	70-130	3	0-30	
Pyruvic Acid	105	111	70-130	6	0-30	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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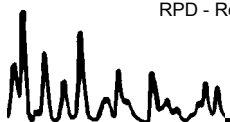
Date Received: 04/09/09
Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B

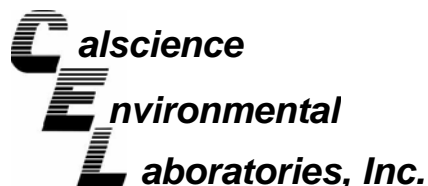
Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-04-0852-1	Aqueous	GC/MS Q	04/11/09	04/11/09	090411S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	95	95	88-118	0	0-7	
Toluene	98	97	87-123	0	0-8	
Ethylbenzene	97	97	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	96	95	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	101	98	36-168	1	0-45	
Diisopropyl Ether (DIPE)	105	103	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	101	99	72-126	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	98	96	72-126	2	0-12	
Ethanol	84	90	53-149	7	0-31	
1,1-Dichloroethene	101	97	70-130	4	0-25	
1,2-Dibromoethane	99	99	70-130	0	0-30	
1,2-Dichlorobenzene	95	97	86-116	2	0-8	
Carbon Tetrachloride	99	97	67-145	3	0-11	
Chlorobenzene	99	98	88-118	1	0-7	
Trichloroethene	94	94	79-127	0	0-10	
Vinyl Chloride	97	95	69-129	3	0-13	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

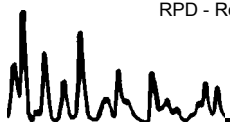
Date Received: 04/09/09
Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B

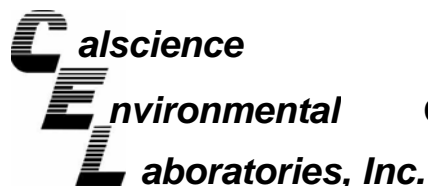
Project Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
BLD120-MW6	Aqueous	GC/MS Q	04/13/09	04/14/09	090413S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	102	103	88-118	1	0-7	
Carbon Tetrachloride	87	91	67-145	5	0-11	
Chlorobenzene	103	101	88-118	1	0-7	
1,2-Dibromoethane	99	98	70-130	1	0-30	
1,2-Dichlorobenzene	97	96	86-116	1	0-8	
1,1-Dichloroethene	98	103	70-130	5	0-25	
Ethylbenzene	98	99	70-130	1	0-30	
Toluene	103	104	87-123	1	0-8	
Trichloroethene	98	99	79-127	1	0-10	
Vinyl Chloride	93	99	69-129	6	0-13	
Methyl-t-Butyl Ether (MTBE)	88	88	71-131	0	0-13	
Tert-Butyl Alcohol (TBA)	88	84	36-168	5	0-45	
Diisopropyl Ether (DIPE)	92	95	81-123	3	0-9	
Ethyl-t-Butyl Ether (ETBE)	84	85	72-126	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	82	82	72-126	1	0-12	
Ethanol	86	84	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - Spike/Spike Duplicate



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San Diego, CA 92127-2116

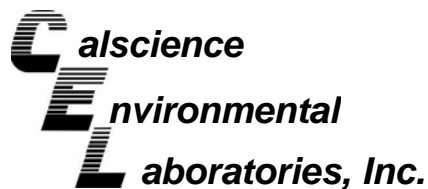
Date Received: N/A
Work Order No: 09-04-0845

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>MS% REC</u>	<u>MSD % REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Chloride	EPA 300.0	09-04-0816-1	04/09/09	N/A	109	110	80-120	0	0-20	
Nitrite (as N)	EPA 300.0	09-04-0816-1	04/09/09	N/A	106	106	80-120	0	0-20	
Nitrate (as N)	EPA 300.0	09-04-0816-1	04/09/09	N/A	107	106	80-120	0	0-20	
Sulfate	EPA 300.0	09-04-0816-1	04/09/09	N/A	105	105	80-120	0	0-20	
Carbon, Total Organic	SM 5310 D	09-04-0871-2	04/10/09	N/A	102	100	70-130	1	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Duplicate



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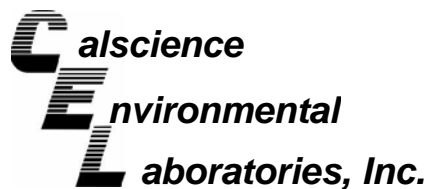
Date Received: N/A
Work Order No: 09-04-0845

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>QC Sample ID</u>	<u>Date Analyzed</u>	<u>Sample Conc</u>	<u>DUP Conc</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Sulfide, Total	SM 4500 S2 - D	09-04-0726-1	04/13/09	ND	ND	NA	0-25	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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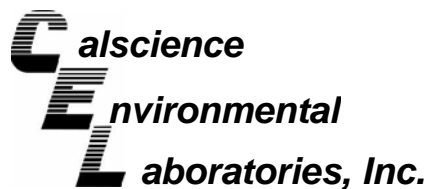
Date Received: N/A
Work Order No: 09-04-0845
Preparation: N/A
Method: RSK-175M

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-661-181	Aqueous	GC 33	N/A	04/10/09	090410L02

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Ethane	96	96	80-120	0	0-20	
Methane	100	100	79-109	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
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San Diego, CA 92127-2116

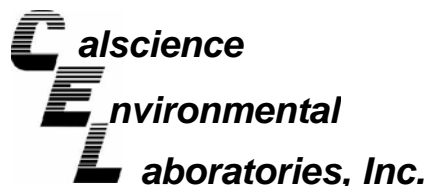
Date Received: N/A
Work Order No: 09-04-0845
Preparation: N/A
Method: HPLC/UV

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-016-187	Aqueous	HPLC 6	N/A	04/10/09	090410L01

<u>Parameter</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Acetic Acid	106	110	80-120	4	0-20	
Butyric Acid	101	98	80-120	3	0-20	
Lactic Acid	103	102	80-120	1	0-20	
Propionic Acid	101	101	80-120	1	0-20	
Pyruvic Acid	95	96	80-120	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-29,124	Aqueous	GC/MS Q	04/11/09	04/12/09	090411L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	101	100	84-120	78-126	1	0-8	
Carbon Tetrachloride	101	101	63-147	49-161	1	0-10	
Chlorobenzene	103	100	89-119	84-124	3	0-7	
1,2-Dibromoethane	100	100	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	100	96	89-119	84-124	3	0-9	
1,1-Dichloroethene	107	105	77-125	69-133	1	0-16	
Ethylbenzene	101	99	80-120	73-127	2	0-20	
Toluene	101	101	83-125	76-132	0	0-9	
Trichloroethene	104	103	89-119	84-124	1	0-8	
Vinyl Chloride	102	101	63-135	51-147	1	0-13	
Methyl-t-Butyl Ether (MTBE)	98	97	82-118	76-124	1	0-13	
Tert-Butyl Alcohol (TBA)	87	90	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	105	105	81-123	74-130	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	99	100	74-122	66-130	1	0-12	
Tert-Amyl-Methyl Ether (TAME)	95	96	76-124	68-132	0	0-10	
Ethanol	86	82	60-138	47-151	4	0-32	

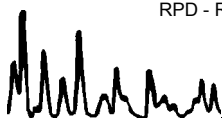
Total number of LCS compounds : 16

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received: N/A
Work Order No: 09-04-0845
Preparation: EPA 5030B
Method: EPA 8260B

Project: Teledyne Ryan

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number		
099-10-006-29,135	Aqueous	GC/MS Q	04/13/09	04/14/09	090413L03		
Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	99	100	84-120	78-126	1	0-8	
Carbon Tetrachloride	86	88	63-147	49-161	2	0-10	
Chlorobenzene	103	103	89-119	84-124	0	0-7	
1,2-Dibromoethane	98	97	80-120	73-127	0	0-20	
1,2-Dichlorobenzene	99	99	89-119	84-124	0	0-9	
1,1-Dichloroethene	89	91	77-125	69-133	2	0-16	
Ethylbenzene	99	100	80-120	73-127	2	0-20	
Toluene	101	102	83-125	76-132	0	0-9	
Trichloroethene	103	105	89-119	84-124	2	0-8	
Vinyl Chloride	84	88	63-135	51-147	5	0-13	
Methyl-t-Butyl Ether (MTBE)	80	79	82-118	76-124	1	0-13	ME
Tert-Butyl Alcohol (TBA)	85	83	46-154	28-172	3	0-32	
Diisopropyl Ether (DIPE)	90	89	81-123	74-130	1	0-11	
Ethyl-t-Butyl Ether (ETBE)	83	81	74-122	66-130	2	0-12	
Tert-Amyl-Methyl Ether (TAME)	82	81	76-124	68-132	1	0-10	
Ethanol	79	77	60-138	47-151	3	0-32	

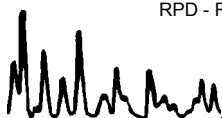
Total number of LCS compounds : 16

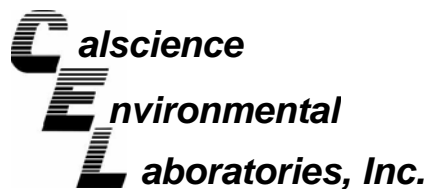
Total number of ME compounds : 1

Total number of ME compounds allowed : 1

LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit





Quality Control - LCS/LCS Duplicate



GeoSyntec Consultants
10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127-2116

Date Received:
Work Order No:

N/A
09-04-0845

Project: Teledyne Ryan

Matrix: Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control</u> Sample ID	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>LCS %</u> <u>REC</u>	<u>LCSD %</u> <u>REC</u>	<u>%REC</u> <u>CL</u>	<u>RPD</u>	<u>RPD</u> <u>CL</u>	<u>Qual</u>
Chloride	EPA 300.0	099-12-906-119	N/A	04/09/09	106	107	90-110	1	0-15	
Nitrite (as N)	EPA 300.0	099-12-906-119	N/A	04/09/09	104	105	90-110	1	0-15	
Nitrate (as N)	EPA 300.0	099-12-906-119	N/A	04/09/09	104	105	90-110	1	0-15	
Sulfate	EPA 300.0	099-12-906-119	N/A	04/09/09	103	103	90-110	1	0-15	

RPD - Relative Percent Difference , CL - Control Limit



GeoSyntec Consultants
 10875 Rancho Bernardo Road, Suite 200
 San Diego, CA 92127-2116

Date Received:
 Work Order No:

N/A
 09-04-0845

Project: Teledyne Ryan

Matrix : Aqueous

<u>Parameter</u>	<u>Method</u>	<u>Quality Control Sample ID</u>	<u>Date Analyzed</u>	<u>Date Extracted</u>	<u>Conc. Added</u>	<u>Conc Recovered</u>	<u>LCS %Rec</u>	<u>%Rec CL</u>	<u>Qualifiers</u>
Carbon, Total Organic	SM 5310 D	099-05-097-3,370	04/10/09	N/A	5.00	5.28	106	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Work Order Number: 09-04-0845

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.



BLAINE

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

TECH SERVICES, INC.

CHAIN OF CUSTODY
 CLIENT: Geosyntec
 SITE: Teledyne Ryan
 2701 N. Harbor Drive
 San Diego, CA

BTS #

Geosyntec

Teledyne Ryan

2701 N. Harbor Drive

San Diego, CA

SAMPLE I.D.	DATE	TIME	CONTAINERS	
			MATRIX	TOTAL
BLD120-MNW2	04-09-09	0727	W	10
BLD120-MNW3		0649		↓
BLD120-MNW6		0821		↓
QCEB-2		0845		3
TBS-2		0600		2

LAB: CalScience
 SPECIAL INSTRUCTIONS
 *Modified 8270= GC/MS isotope dilution to achieve 2ug/L detection limits
 **EISB= TOC, sulfate, sulfide, nitrate, nitrite, chloride, and organic acids
 Brian Hitchens
 Geosyntec: 10875 Rancho Bernardo Rd, suite 200
 San Diego, CA 92127
 (858) 674-6559

0845

ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
Total Chromium/Hexavalent Chromium			1
EISB Sampling Suite**	X		2
1,4-Dioxane (Modified 8270)*	X		3
Metals (6010B/7470A)	X		4
PCBs (1668A)			5
TPH (8015)			
SVOCs 8270 SIM Super			
Ethene/Ethane/Methane (RSK 175)	X		
VOCs by 8260B	X		

LAB: CalScience
 DHS #

CONDUCT ANALYSIS TO DETECT		RESULTS NEEDED NO LATER THAN
DATE	TIME	
04-09-09	1407	CEEL
04-09-09	1620	CEEL

RELEASED BY: Chris Davis
 RECEIVED BY: [Signature]
 DATE: 4/9/09
 TIME: 1407

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
04-09-09	1245		Chris Davis

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Chris Davis	04-09-09	1407	[Signature]	4/9/09	1407
[Signature]	4/9/09	1620	[Signature]	4/9/09	1620

SHIPPED VIA: DATE SENT: TIME SENT: COOLER #:

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blanco Tech

DATE: 4/19/19

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C - 0.2 °C (CF) = 2.1 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: _____).

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter Metals Only PCBs Only Initial: [Signature]

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: [Signature]

Sample _____ No (Not Intact) Not Present Initial: [Signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve EnCores® TerraCores® _____

Water: VOA_p VOA_h VOANa₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{na} 100PBsterile 100PBna₂ _____ _____ _____

Air: Tedlar® Summa® _____ **Sludge/Other:** _____ **Checked/Labeled by:** [Signature]

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar (Wide-mouth) B: Bottle (Narrow-mouth) **Reviewed by:** [Signature]

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ Na: NaOH p: H₃PO₄ s: H₂SO₄ z_{na}: ZnAc₂+NaOH **Scanned by:** [Signature]