Geosyntec consultants

10875 Rancho Bernardo Road, Suite 200
San Diego, CA 92127
PH 858.674.6559
FAX 858.674.6586
www.geosyntec.com

24 July 2008

Barry Pulver
County of San Diego, Department of Public Works
Landfill Management
5201 Ruffin Road, Suite D, MS 0383
San Diego, California 92123

Subject: April 2008 Soil Vapor Sampling Report
Poway Landfill
Poway, California

Dear Mr. Pulver:

Geosyntec Consultants (Geosyntec) is pleased to provide this report summarizing work performed to evaluate the quality of soil vapor at the Poway Landfill and surrounding property. The soil vapor survey was conducted in general accordance with the January 2003 California Department of Toxic Substances Control (DTSC) advisory. The laboratory data were validated by Geosyntec personnel. Based on the validation, the data were determined to be usable as qualified.

BACKGROUND

The site is located south of Poway Road and west of Espola Road in the City of Poway, California. In June 2006, the Additional Soil Vapor Evaluation and Engineering Feasibility Study (EFS) was submitted to the Regional Water Quality Control Board (RWQCB) and San Diego County Local Enforcement Agency (LEA) and includes a Corrective Action Program (CAP) for the site. The CAP recommended that soil vapor quality down gradient of the landfill be monitored through August 2007. However, as the rainy season (October – April) of 2006-2007 was a relatively dry season (approximately 30% of the annual average at the Poway Valley monitoring station [WRCC, 2008]), the LEA requested the County continue monitoring until a "normal" rainy season occurred to evaluate potential seasonal variations in shallow soil vapor. Through February 2008 Poway (Poway Valley station) has received approximately 85% of the average rainfall during the 2007-2008 rainy season [WRCC, 2008]. The Western Regional Climate Center (WRCC) data are reportedly missing 19 days of data from December 2007 through February 2008, 25 days of data from March 2008 and do not include data from April 2008, indicating the total precipitation amounts for this time period may be slightly higher than

reported. Therefore, the 2007-2008 rainy season appears to be a "normal" rainy season and potential seasonal variations in shallow soil vapor concentrations can be evaluated.

On 23 April 2008, Geosyntec measured depth to water in onsite and offsite groundwater monitor wells and piezometers to evaluate the response of groundwater to a "normal" rainy season. A summary of groundwater depths and elevations in presented in Table 1. Since the first quarter 2008 groundwater monitoring event, groundwater elevations have increased between 0.45 and 4.66 feet in onsite and offsite monitor wells, except for monitor well POGW-17A, which decreased 0.67 feet (Figure 1). Groundwater elevations appear to be generally within historical levels (Figure 1).

FIELD PROCEDURES

The soil vapor monitoring network at the site consists of 10 onsite (4 within the footprint of waste and 6 outside the footprint of waste) and 22 offsite soil vapor wells (Figure 2). Historically, soil vapor wells PVP-1, PVP-2B, PVP-3B, PVP-4B, VW-2B, VW-3B, VW-5B, VW-6B, VW-7B, and VW-9 could not be sampled due to saturated or low-permeability subsurface conditions, which resulted in excess vacuum conditions. On 10 April 2008, each of these wells was tested to determine if a vapor sample could be obtained. The test consisted of connecting the soil vapor well to a Magnehelic gauge and applying a vacuum. A vacuum of greater than 100 inches of water was developed in each of these soil vapor wells; therefore, soil vapor samples were not collected from these wells during the April 2008 soil vapor sampling event. Soil vapor well vacuum logs are provided in Attachment A.

The remaining onsite and offsite soil vapor wells were purged and sampled on 21 and 22 April 2008 using methods consistent with the previous soil vapor sampling events. Soil vapor samples were collected using laboratory-calibrated flow controllers set at flow rates of approximately 167 ml/min. During purging of onsite soil vapor well PVP-3A and offsite soil vapor wells VW-1B, VW-2A, VW-4B, VW-6A, VW-8A, and VW-8B a vacuum of greater than 100 inches of water was developed; therefore, soil vapor samples were not collected from these wells during the April 2008 soil vapor sampling event. Soil vapor sample collection logs are provided in Attachment A.

ANALYTICAL RESULTS

The following VOCs are indicators of LFG migration or have previously accounted for the greatest portion of the estimated risk and therefore, comprise the primary constituents of concern (COCs):

- Dichlorodifluoromethane (DCDFM, aka Freon 12)
- Tetrachloroethene (PCE)
- Trichloroethene (TCE)
- cis-1,2-Dichloroethene (cis-1,2-DCE)
- Vinyl chloride
- Benzene
- Ethylbenzene
- Toluene
- Total xylenes

Certificates of analysis and chain-of-custody documents are presented in Attachment B. A summary of soil vapor analytical results for the April 2008 monitoring event, including QA/QC sample results, are provided in Table 2. Reported concentrations of benzene, PCE, and TCE in soil vapor samples collected onsite and offsite at the Poway Landfill from April 2006 through April 2008 are summarized in Table 3.

Background Soil Vapor Wells

Soil vapor samples collected from background soil vapor wells PVP-5 and PVP-6 during the April 2008 event contained the following primary COCs:

- Benzene at a concentration of 1.7 ppbv (1 of 2 samples);
- Toluene at a concentration of 3.4 ppbv (1 of 2 samples); and
- Total xylenes at a concentration of 8.5 ppbv (1 of 2 samples).

No other primary COCs were detected at concentrations greater than their respective reporting limits (RLs) in background soil vapor wells. Fuel related VOCs, which have not previously been detected, were detected in the soil vapor sample collected from background soil vapor well PVP-6. However, similar concentrations of fuel related VOCs were also detected in the associated quality control trip blank (QCTB), indicating the fuel related VOCs may not be attributable to shallow soil vapor.

Fixed gases were measured in the field using a Landtech GEM 2000 landfill gas meter and recorded on the soil vapor sample collection logs (Attachment A). Fixed gas concentrations in the soil vapor purged from the background soil vapor wells were consistent with native soil

vapor and those measured during the previous sampling events [Geosyntec, 2006a, 2006b, 2007a, and 2007b].

Property Boundary Soil Vapor Wells

Soil vapor samples collected from soil vapor wells along the southern property boundary during the April 2008 sampling event contained the following primary COCs:

- DCDFM at concentrations ranging from 25 to 82 ppbv (4 of 4 samples); and
- PCE at concentrations ranging from 1.5 to 1.9 ppbv (4 of 4 samples).

No other primary COCs were detected at concentrations greater than their respective RLs.

Fixed gas concentrations in the soil vapor purged from the onsite soil vapor wells along the south property boundary were consistent with native soil vapor and those measured during the previous sampling events [Geosyntec, 2006a, 2006b, 2007a, and 2007b].

Offsite Soil Vapor Wells

Soil vapor samples collected from soil vapor wells offsite within the residential area south of the site during the April 2008 sampling event contained the following primary COCs:

- DCDFM at concentrations ranging from 1.5 to 5.4 ppbv (5 of 11 samples);
- PCE at concentrations ranging from 2.9 to 36 ppbv (4 of 11 samples);
- Benzene at concentrations ranging from 1.2 to 4.9 ppbv (3 of 11 samples);
- Toluene at concentrations ranging from 5.2 to 57 ppbv (5 of 11 samples);
- Ethylbenzene at concentrations ranging from 1.6 to 16 ppbv (4 of 11 samples); and
- Total xylenes at concentrations ranging from 7.7 to 113 ppbv (5 of 11 samples).

No other primary COCs were detected at concentrations greater than their respective RLs. Fuel related VOCs that generally have not previously been detected were detected in soil vapor samples collected from offsite soil vapor wells VW-1A, VW-4A, VW-5A, VW-10, and VW-11. However, these fuel related compounds were not detected in soil vapor samples collected from wells located at the south property boundary. In addition, fuel related compounds were also detected at similar concentrations in the trip blank submitted with samples collected on 21 April 2008, indicating the can may have leaked during transport and that the fuel related compounds may be associated with cans that potentially leaked during transport to the analytical laboratory.

Therefore, it appears fuel related VOCs may not be attributable to the landfill; rather they may be due to alternative offsite sources or cans that leaked during transport to the laboratory.

Fixed gas concentrations in the soil vapor purged from the offsite soil vapor wells within the residential area south of the site were consistent with native soil vapor and those measured during the previous sampling events [Geosyntec, 2006a, 2006b, 2007a, and 2007b].

Discussion of Soil Vapor Data

COC concentrations in soil vapor samples collected from onsite and offsite soil vapor wells during April 2008 were generally consistent with the range of concentrations observed during previous sampling events [Geosyntec, 2006a, 2006b, 2007a, 2007b]. Onsite and offsite soil vapor fixed gas concentrations were generally consistent with native soil vapor concentrations. Benzene, PCE, and TCE concentrations in soil vapor samples collected from onsite and offsite soil vapor wells during the April 2008 sampling event are plotted on Figures 3, 4, and 5, respectively. Time series plots for benzene, PCE, and TCE in onsite and offsite soil vapor are provided in Attachment C. Since the April and May 2006 soil vapor sampling events:

- With the exception of fuel related VOCs that have not previously been detected, the frequency of detections of COCs in soil vapor has generally decreased;
- Benzene concentrations in onsite and offsite soil vapor samples have generally decreased;
- PCE concentrations have generally decreased or remained within the range of historical concentrations in onsite and offsite soil vapor wells; and
- TCE concentrations in onsite and offsite soil vapor samples have generally decreased. During the April 2008 soil vapor sampling event TCE was not detected at concentrations greater than the RL (the RL ranged from 1.0 to 1.3 ppbv).

CONCLUSIONS AND RECOMMENDATIONS

The estimated risk calculated from the April and May 2006 vapor data indicated lifetime excess cancer risks below levels of concern typically used by the DTSC, County of San Diego Department of Environmental Health (DEH), and United States Environmental Protection Agency (USEPA). The concentrations observed during the April 2008 sampling event were consistent with, or lower than, concentrations observed during the April and May 2006 sampling events, with the exception of fuel related compounds detected in soil vapor samples collected from offsite soil vapor wells. Therefore, the estimated risk based on the April 2008 vapor data can be reasonably expected to be consistent with or less than estimated risk from the April and

May 2006 sampling events. Although fuel related VOCs were detected in soil vapor samples collected from offsite soil vapor wells VW-1A, VW-4A, VW-5A, VW-10, and VW-11, these VOCs have generally not been detected previously and were not detected in soil vapor samples collected from wells along the south property boundary. Therefore, it appears the fuel related VOCs detected in shallow soil vapor collected from wells within the residential community south of the site may not be attributable to the landfill; rather they appear to be due to alternative offsite sources. Soil vapor data from sampling events conducted at the site since April 2006 indicate alternative offsite sources of VOCs

The CAP presented in the June 2006, Additional Soil Vapor Evaluation and EFS recommended that soil vapor quality down gradient of the site be monitored through August 2007 to evaluate potential seasonal variations. As the winter of 2006-2007 was a below average rainy season, the LEA requested additional monitoring be performed until a "normal" rainy season occurred. The recent winter of 2007-2008 appears to have been a "normal" rainy season. Concentrations of COCs in soil vapor samples collected from on-site and off-site soil vapor wells in April 2008 to determine if seasonal variations exist during a "normal" rainy season were generally consistent with previous sampling events and did not exhibit discernable seasonal variations. Seasonal variations have not been observed over six soil vapor sampling events conducted at the site since April 2006. Rather, concentrations of COCs in shallow soil vapor samples collected from on-site and off-site soil vapor wells have exhibited generally stable to slightly decreasing trends since April 2006. In addition, the estimate lifetime cancer risk can also be reasonably expected to be less than the estimated risk from the April and May 2006 sampling events. Therefore, Geosyntec recommends the soil vapor sampling at the Poway landfill be discontinued.

SUMMARY

Geosyntec has prepared this report based on our understanding of the current site conditions and regulatory requirements. Geosyntec appreciates this opportunity to submit this report to the County for this important project. If you have any questions or require additional information, please contact the undersigned at (858) 674-6559.

Sincerely,

Christopher Gale, PG
Project Manager

Veryl Wittig, PG, CHG
Project Director

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Figure 5 TCE Concentrations in Soil Vapor April 2008

Attachments

Attachment A Soil Vapor Sample Collection Logs
Attachment B Laboratory Analytical Certificates
Attachment C Time Series Plots

References:

Geosyntec, 2007a. October 2006 – March 2007 Semi-Annual and 2006 Annual Monitoring Report, Poway Landfill, Poway, California, prepared for County of San Diego Department of Public Works, April 2007.

Geosyntec, 2007b. April –September 2007 Semi-annual Monitoring Report, Detection Monitoring Program, Palomar Airport Landfill, prepared for the County of San Diego, Department of Public Works, Landfill Management, October 2007.

Geosyntec, 2006a. Additional Soil Vapor Evaluation and Engineering Feasibility Study, Poway Landfill, Poway, California prepared for County of San Diego Department of Public Works, June 2006.

Geosyntec, 2006b. *April-September 2006 Semi-Annual Monitoring Report, Poway Landfill, Poway, California* prepared for County of San Diego Department of Public Works, October 2006.

Western Regional Climate Center (WRCC), 2008. http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca7111

TABLES

Table 1
Summary of Groundwater Depths and Elevations
Poway Landfill
San Diego, California

Geosyntec consultants

Well ID	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-6	695.35	02/01/91	35.26	17.26	678.09
		02/05/91	35.00	17.30	678.05
		04/11/91	35.30	12.70	682.65
		07/22/91	35.25	13.17	682.18
		10/16/91	34.90	14.43	680.92
		12/20/93	35.00	5.35	690.00
		05/03/94	35.00	4.92	690.43
		11/22/94	35.30	8.00	687.35
		09/29/95	35.30	4.12	691.23
		02/22/96	35.30	5.70	689.65
		08/15/96	35.30	7.85	687.50
		02/13/97	35.30	5.95	689.40
		08/26/97	35.30	9.24	686.11
		02/18/98	35.30	6.28	689.07
		08/27/98	35.30	3.94	691.41
		03/01/99	35.30	5.26	690.09
		09/02/99	35.30	8.93	686.42
		02/28/00	35.30	9.73	685.62
		08/02/00	35.30	11.78	683.57
		02/05/01	35.30	14.83	680.52
		07/31/01	34.60	12.61	682.74
		02/15/02	34.60	15.72	679.63
		08/02/02	34.60	17.19	678.16
		01/31/03	34.60	19.69	675.66
		03/11/03	34.60	15.56	679.79
		03/19/03	34.60	14.42	680.93
		07/25/03	34.60	14.60	680.75
		08/26/03	34.60	15.34	680.01
		03/15/04	34.60	16.07	679.28
		06/04/04	34.60	15.63	679.72
		08/19/04	34.60	17.06	678.29
		01/24/05	34.60	11.32	684.03
		07/19/05	34.60	4.36	690.99
		01/18/06	34.60	5.45	689.90
		06/01/06	34.60	5.80	689.55
		07/17/06	34.60	6.47	688.88
		01/17/07	34.60	7.95	687.40
		07/25/07	34.60	9.21	686.14
		08/28/07	34.60	9.67	685.68
		01/21/08	34.60	9.82	685.53
		04/23/08	34.60	8.20	687.15
POGW-7	721.45	02/01/91	163.40	88.40	633.05
		02/05/91	163.45	91.25	630.20
		04/11/91	163.50	89.10	632.35
		07/22/91	163.45	86.33	635.12
		10/15/91	163.55	85.51	635.94
		12/20/93	160.00	73.11	648.34
		05/03/94	160.00	74.58	646.87
		11/08/94	160.00	76.72	644.73

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POGW-7	721.45	08/10/95	160.00	70.52	650.93
		02/22/96	160.00	74.45	647.00
		08/15/96	160.00	76.55	644.90
		02/13/97	160.00	77.70	643.75
		08/26/97	160.00	77.00	644.45
		02/19/98	160.00	77.75	643.70
		08/27/98	160.00	69.66	651.79
		03/01/99	160.00	73.25	648.20
		09/02/99	160.00	75.57	645.88
POGW-8	619.77	02/01/91	59.80	36.55	583.22
		02/05/91	60.25	36.50	583.27
		04/11/91	60.20	36.90	582.87
		07/22/91	60.26	36.74	583.03
		10/15/91	60.30	36.70	583.07
		12/20/93	58.00	16.33	603.44
		05/03/94	58.00	16.42	603.35
		11/08/94	60.31	19.35	600.42
		08/10/95	60.13	11.08	608.69
POGW-9	725.05	02/22/96	83.50	37.45	687.60
		08/15/96	83.50	40.45	684.60
		02/13/97	83.50	40.67	684.38
		08/26/97	83.50	43.07	681.98
		02/18/98	83.50	43.47	681.58
		08/27/98	83.50	30.27	694.78
		03/01/99	83.50	36.83	688.22
		09/02/99	83.50	40.15	684.90
		02/28/00	83.50	42.97	682.08
		08/02/00	83.50	44.87	680.18
		02/05/01	83.50	48.20	676.85
		07/31/01	84.36	47.11	677.94
		02/15/02	84.36	50.46	674.59
		08/02/02	84.36	52.38	672.67
		01/31/03	84.36	53.48	671.57
		03/11/03	84.36	53.50	671.55
		03/19/03	84.36	53.35	671.70
		07/25/03	84.36	51.50	673.55
		08/26/03	84.36	51.88	673.17
		03/15/04	84.36	52.15	672.90
		06/04/04	84.36	52.39	672.66
		08/19/04	84.36	53.27	671.78
		01/24/05	84.36	52.10	672.95
		07/19/05	84.36	43.75	681.30
		01/18/06	84.36	36.32	688.73
		06/01/06	84.36	37.98	687.07
		07/17/06	84.36	38.86	686.19
		01/17/07	84.36	40.81	684.24
		07/25/07	84.36	42.83	682.22
		08/28/07	84.36	43.46	681.59
		01/21/08	84.36	43.46	681.59

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Well ID	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-9	725.05	04/23/08	84.36	43.01	682.04
POGW-10	710.56	02/22/96	52.60	41.00	669.56
		08/15/96	52.60	45.25	665.31
		02/13/97	52.60	46.08	664.48
		08/26/97	52.60	44.07	666.49
		02/19/98	52.60	47.31	663.25
		08/27/98	52.60	28.87	681.69
		03/01/99	52.60	38.80	671.76
		09/02/99	52.60	43.48	667.08
		02/28/00	52.60	46.05	664.51
		08/02/00	52.60	46.10	664.46
		02/05/01	52.60	49.65	660.91
		07/31/01	53.86	43.92	666.64
		02/15/02	53.86	47.02	663.54
		08/02/02	53.86	49.12	661.44
		01/31/03	53.86	52.52	658.04
		03/11/03	53.86	53.30	657.26
		03/19/03	53.86	53.26	657.30
		07/25/03	53.86	47.95	662.61
		08/26/03	53.86	47.21	663.35
		03/15/04	53.86	48.95	661.61
		06/04/04	53.86	48.82	661.74
		08/19/04	53.86	49.62	660.94
		01/24/05	53.86	39.65	670.91
		07/19/05	53.86	28.75	681.81
		01/18/06	53.86	38.21	672.35
		06/01/06	53.86	41.31	669.25
		07/17/06	53.86	42.23	668.33
		01/17/07	53.86	40.31	670.25
		07/25/07	53.86	44.99	665.57
		08/28/07	53.86	44.19	666.37
		01/21/08	53.86	43.18	667.38
		04/23/08	53.86	42.16	668.40
POGW-11	628.71	04/09/96	54.20	43.35	585.36
		08/15/96	54.20	45.18	583.53
		02/13/97	54.20	44.11	584.60
		08/26/97	54.20	46.40	582.31
		02/18/98	54.20	43.07	585.64
		08/27/98	54.20	38.10	590.61
		03/01/99	54.20	42.54	586.17
		09/02/99	54.20	44.90	583.81
		02/28/00	54.20	47.53	581.18
		08/02/00	54.20	48.43	580.28
		02/05/01	54.20	51.79	576.92
		07/31/01	54.20	48.46	580.25
		02/15/02	54.20	48.50	580.21
		08/02/02	54.20	51.38	577.33
		01/31/03	54.20	52.22	576.49
		03/11/03	54.20	51.78	576.93

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Well ID	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-11	628.71	03/19/03	54.20	51.68	577.03
		07/25/03	54.20	49.10	579.61
		08/26/03	54.20	49.38	579.33
		03/15/04	54.20	51.13	577.58
		06/04/04	54.20	51.05	577.66
		08/19/04	54.20	51.69	577.02
		01/24/05	54.20	47.81	580.90
		07/19/05	54.20	42.00	586.71
		01/18/06	54.20	46.71	582.00
		06/01/06	54.20	45.42	583.29
		07/17/06	54.20	48.81	579.90
		01/17/07	54.20	50.99	577.72
		07/25/07	54.20	52.52	576.19
		08/28/07	54.20	52.74	575.97
		01/21/08	54.20	52.93	575.78
		04/23/08	54.20	50.68	578.03
POGW-12	594.72	02/22/96	15.80	10.10	584.62
		08/15/96	15.80	11.95	582.77
		02/13/97	15.80	10.25	584.47
		08/26/97	15.80	12.48	582.24
		02/19/98	15.80	10.63	584.09
		08/27/98	15.80	7.51	587.21
		03/01/99	15.80	9.00	585.72
		09/02/99	15.80	10.76	583.96
		03/06/00	15.80	12.32	582.40
		08/02/00	15.80	11.41	583.31
		02/05/01	15.80	13.26	581.46
		07/31/01	15.76	9.16	585.56
		02/15/02	15.76	9.67	585.05
		08/02/02	15.76	9.41	585.31
		01/31/03	15.76	9.83	584.89
		03/11/03	15.76	8.92	585.80
		03/19/03	15.76	8.72	586.00
		07/25/03	15.76	9.12	585.60
		08/26/03	15.76	9.52	585.20
		03/15/04	15.76	9.73	584.99
		06/04/04	15.76	9.53	585.19
		08/19/04	15.76	10.12	584.60
		01/24/05	15.76	7.03	587.69
		07/19/05	15.76	11.19	583.53
		01/18/06	15.76	13.33	581.39
		06/01/06	15.76	11.89	582.83
		07/17/06	15.76	11.86	582.86
		01/17/07	15.76	DRY	DRY
		07/25/07	15.76	DRY	DRY
		08/28/07	15.76	DRY	DRY
		01/21/08	15.76	15.60	579.12
		04/23/08	15.76	10.94	583.78
POGW-13	594.88	02/22/96	52.60	12.20	582.68

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Well ID	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-13	594.88	08/15/96	52.60	13.90	580.98
		02/13/97	52.60	13.22	581.66
		08/26/97	52.60	14.40	580.48
		02/19/98	52.60	12.83	582.05
		08/27/98	52.60	7.25	587.63
		03/01/99	52.60	10.46	584.42
		09/02/99	52.60	12.49	582.39
		02/28/00	52.60	14.96	579.92
		08/02/00	52.60	15.61	579.27
		02/05/01	52.60	18.46	576.42
		07/31/01	52.52	15.07	579.81
		02/15/02	52.52	16.64	578.24
		08/01/02	52.52	17.54	577.34
		01/31/03	52.52	17.91	576.97
		03/11/03	52.52	17.91	576.97
		03/19/03	52.52	17.00	577.88
		07/25/03	52.52	15.57	579.31
		08/26/03	52.52	15.70	579.18
		03/15/04	52.52	16.04	578.84
		06/04/04	52.52	16.54	578.34
		08/19/04	52.52	17.06	577.82
		01/24/05	52.52	12.90	581.98
		07/19/05	52.52	10.28	584.60
		01/18/06	52.52	14.30	580.58
		06/01/06	52.52	15.11	579.77
		07/17/06	52.52	15.54	579.34
		01/17/07	52.52	17.94	576.94
		07/25/07	52.52	19.18	575.70
		08/28/07	52.52	19.47	575.41
		01/21/08	52.52	19.36	575.52
		04/23/08	52.52	17.04	577.84
POGW-14	722.61	02/28/00	226.60	87.33	635.28
		08/02/00	226.60	88.35	634.26
		02/05/01	226.60	91.79	630.82
		07/31/01	225.68	90.31	632.30
		02/15/02	225.68	94.05	628.56
		08/02/02	225.68	96.90	625.71
		01/31/03	225.68	99.41	623.20
		03/11/03	225.68	99.78	622.83
		03/19/03	225.68	99.76	622.85
		07/25/03	225.68	98.88	623.73
		08/26/03	225.68	99.09	623.52
		03/15/04	225.68	99.18	623.43
		06/04/04	225.68	99.87	622.74
		08/19/04	225.68	100.86	621.75
		01/24/05	225.68	99.14	623.47
		07/19/05	225.68	82.83	639.78
		01/18/06	225.68	83.66	638.95
		07/17/06	225.68	83.80	638.81

Table 1
Summary of Groundwater Depths and Elevations
Poway Landfill
San Diego, California

Geosyntec consultants

Well ID	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-14	722.61	01/17/07	225.68	85.44	637.17
		07/25/07	225.68	87.23	635.38
		08/28/07	225.68	87.87	634.74
		01/21/08	225.68	88.74	633.87
		04/23/08	225.68	87.90	634.71
POGW-15	606.60	07/31/01	24.29	13.75	592.85
		02/15/02	24.29	16.78	589.82
		08/02/02	24.29	18.69	587.91
		01/31/03	24.29	20.17	586.43
		03/11/03	24.29	19.69	586.91
		03/19/03	24.29	19.77	586.83
		07/25/03	24.29	19.21	587.39
		08/26/03	24.29	19.39	587.21
		03/15/04	24.29	19.39	587.21
		06/04/04	24.29	20.72	585.88
		08/19/04	24.29	21.19	585.41
		01/24/05	24.29	12.58	594.02
		07/19/05	24.29	9.86	596.74
		01/18/06	24.29	13.05	593.55
		06/01/06	24.29	13.71	592.89
		07/17/06	24.29	14.26	592.34
		01/17/07	24.29	16.64	589.96
		07/25/07	24.29	18.38	588.22
		08/28/07	24.29	18.58	588.02
		01/21/08	24.29	18.63	587.97
		04/23/08	24.29	18.11	588.49
POGW-16	643.49	06/04/04	69.50	59.29	584.20
		06/30/04	69.50	59.40	584.09
		07/26/04	69.50	59.41	584.08
		08/19/04	69.50	59.92	583.57
		01/24/05	69.50	56.69	586.80
		07/19/05	69.50	48.80	594.69
		01/18/06	69.50	51.69	591.80
		06/01/06	69.50	52.46	591.03
		07/17/06	69.50	52.92	590.57
		01/17/07	69.50	55.07	588.42
		07/25/07	69.50	56.83	586.66
		08/28/07	69.50	57.10	586.39
		01/21/08	69.50	58.00	585.49
		04/23/08	69.50	56.62	586.87
POGW-17A	602.64	07/19/05	18.50	14.08	588.56
		01/18/06	18.50	17.85	584.79
		06/01/06	18.50	15.96	586.68
		07/17/06	18.50	17.03	585.61
		01/17/07	18.50	DRY	DRY
		07/25/07	18.50	DRY	DRY
		08/28/07	18.50	DRY	DRY
		01/21/08	18.50	14.82	587.82
		04/23/08	18.50	15.49	587.15

Table 1
Summary of Groundwater Depths and Elevations
Poway Landfill
San Diego, California

Geosyntec consultants

Well ID	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-17B	602.50	07/19/05	45.00	16.56	585.94
		01/18/06	45.00	20.54	581.96
		06/01/06	45.00	21.63	580.87
		07/17/06	45.00	22.07	580.43
		01/17/07	45.00	24.30	578.20
		07/25/07	45.00	25.75	576.75
		08/28/07	45.00	25.98	576.52
		01/21/08	45.00	26.06	576.44
		04/23/08	45.00	24.02	578.48
POGW-18A	616.42	07/19/05	18.00	6.77	609.65
		01/18/06	18.00	9.81	606.61
		06/01/06	18.00	9.41	607.01
		07/17/06	18.00	10.92	605.50
		01/17/07	18.00	DRY	DRY
		07/25/07	18.00	13.35	603.07
		08/28/07	18.00	DRY	DRY
		01/21/08	18.00	8.10	608.32
		04/23/08	18.00	7.62	608.80
POGW-18B	616.54	07/19/05	45.00	18.05	598.49
		01/18/06	45.00	24.54	592.00
		06/01/06	45.00	24.50	592.04
		07/17/06	45.00	25.21	591.33
		01/17/07	45.00	28.00	588.54
		07/25/07	45.00	29.90	586.64
		08/28/07	45.00	30.39	586.15
		01/21/08	45.00	30.78	585.76
		04/23/08	45.00	28.21	588.33
POGW-19	652.62	05/05/06	85.40	70.15	582.47
		06/01/06	85.40	70.29	582.33
		07/17/06	85.40	70.90	581.72
		01/17/07	85.40	71.98	580.64
		07/25/07	85.40	74.71	577.91
		08/28/07	85.40	74.92	577.70
		01/21/08	85.40	75.22	577.40
		04/23/08	85.40	73.13	579.49
POGW-20	620.00	05/05/06	43.00	26.75	593.25
		06/01/06	43.00	26.78	593.22
		07/17/06	43.00	27.39	592.61
		01/17/07	43.00	30.09	589.91
		07/25/07	43.00	32.04	587.96
		08/28/07	43.00	32.39	587.61
		01/21/08	43.00	33.31	586.69
		04/23/08	43.00	31.28	588.72
POGW-21	617.92	05/05/06	32.90	23.60	594.32
		06/01/06	32.90	23.82	594.10
		07/17/06	32.90	24.29	593.63
		01/17/07	32.90	26.62	591.30
		07/25/07	32.90	28.40	589.52
		08/28/07	32.90	28.59	589.33

Table 1
Summary of Groundwater Depths and Elevations
Poway Landfill
San Diego, California

Geosyntec consultants

Well ID	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POGW-21	617.92	01/21/08	32.90	29.92	588.00
		04/23/08	32.90	28.42	589.50
POGW-22	773.86	07/17/06	200.00	140.68	633.18
		01/17/07	200.00	141.56	632.30
		07/25/07	200.00	142.37	631.49
		08/28/07	200.00	143.01	630.85
		01/21/08	200.00	147.37	626.49
		04/23/08	200.00	145.79	628.07
POGW-23	609.50	12/11/06	40.00	32.00	577.50
		01/17/07	40.00	31.99	577.51
		07/25/07	40.00	34.14	575.36
		08/28/07	40.00	35.09	574.41
		01/21/08	40.00	36.56	572.94
		04/23/08	40.00	33.46	576.04
POGW-24A	604.23	12/11/06	19.60	17.75	586.48
		01/17/07	19.60	18.51	585.72
		07/25/07	19.60	DRY	DRY
		08/28/07	19.60	DRY	DRY
		01/21/08	19.60	17.93	586.30
		04/23/08	19.60	17.37	586.86
POGW-24B	604.17	12/11/06	45.10	18.38	585.79
		01/17/07	45.10	18.90	585.27
		07/25/07	45.10	20.50	583.67
		08/28/07	45.10	20.74	583.43
		01/21/08	45.10	21.34	582.83
		04/23/08	45.10	19.48	584.69
POPW-1	724.07	04/18/03	116.00	94.46	629.61
		04/23/03	116.00	92.89	631.18
		05/05/03	116.00	92.12	631.95
		05/12/03	116.00	91.80	632.27
		05/15/03	116.00	91.74	632.33
		06/17/03	116.00	91.10	632.97
		08/26/03	116.00	90.50	633.57
		03/15/04	116.00	91.74	632.33
		06/04/04	116.00	91.67	632.40
		08/19/04	116.00	92.74	631.33
		01/24/05	116.00	85.50	638.57
		07/19/05	116.00	75.58	648.49
		01/18/06	116.00	77.48	646.59
		06/01/06	116.00	79.09	644.98
		07/17/06	116.00	78.86	645.21
		01/17/07	116.00	80.27	643.80
		07/25/07	116.00	81.75	642.32
		08/28/07	116.00	82.06	642.01
		01/21/08	116.00	83.45	640.62
		04/23/08	116.00	82.69	641.38
POPW-2A	722.74	04/18/03	121.00	113.05	609.69
		04/23/03	121.00	103.62	619.12
		05/05/03	121.00	97.40	625.34

Table 1
Summary of Groundwater Depths and Elevations
Poway Landfill
San Diego, California

Geosyntec consultants

Well ID	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POPW-2A	722.74	05/12/03	121.00	96.01	626.73
		05/15/03	121.00	95.87	626.87
		06/17/03	121.00	95.72	627.02
		08/26/03	121.00	95.53	627.21
		03/15/04	121.00	96.63	626.11
		06/04/04	121.00	96.46	626.28
		08/19/04	121.00	96.91	625.83
		01/24/05	121.00	88.55	634.19
		07/19/05	121.00	80.20	642.54
		01/18/06	121.00	80.32	642.42
		06/01/06	121.00	80.54	642.20
		07/17/06	121.00	80.49	642.25
		01/17/07	121.00	81.65	641.09
		08/28/07	121.00	83.72	639.02
		01/21/08	121.00	NM	NM
		04/23/08	121.00	84.41	638.33
POPW-2B	722.75	04/18/03	155.00	95.10	627.65
		04/23/03	155.00	94.93	627.82
		05/05/03	155.00	95.45	627.30
		05/12/03	155.00	94.92	627.83
		05/15/03	155.00	94.98	627.77
		06/17/03	155.00	95.01	627.74
		08/26/03	155.00	94.78	627.97
		03/15/04	155.00	96.09	626.66
		06/04/04	155.00	95.88	626.87
		08/19/04	155.00	96.37	626.38
		01/24/05	155.00	95.10	627.65
		07/19/05	155.00	79.33	643.42
		01/18/06	155.00	77.88	644.87
		06/01/06	155.00	78.09	644.66
		07/17/06	155.00	78.23	644.52
		01/17/07	155.00	80.00	642.75
		08/28/07	155.00	81.91	640.84
		01/21/08	155.00	NM	NM
		04/23/08	155.00	83.51	639.24
POPW-3	724.71	04/18/03	121.00	112.76	611.95
		04/23/03	121.00	105.54	619.17
		05/05/03	121.00	97.61	627.10
		05/12/03	121.00	90.92	633.79
		05/15/03	121.00	88.84	635.87
		06/17/03	121.00	76.65	648.06
		08/26/03	121.00	71.20	653.51
		03/15/04	121.00	71.84	652.87
		06/04/04	121.00	71.39	653.32
		08/19/04	121.00	72.38	652.33
		01/24/05	121.00	69.05	655.66
		07/19/05	121.00	51.86	672.85
		01/18/06	121.00	55.86	668.85
		06/01/06	121.00	78.05	646.66

Table 1
Summary of Groundwater Depths and Elevations
Poway Landfill
San Diego, California

Geosyntec consultants

Well ID	Top of Casing Elevation (ft MSL)	Date	Depth to Bottom (ft toc)	Depth to Water (ft toc)	Groundwater Elevation (ft MSL)
POPW-3	724.71	07/17/06	121.00	63.28	661.43
		01/17/07	121.00	60.67	664.04
		08/28/07	121.00	61.83	662.88
		01/21/08	121.00	NM	NM
		04/23/08	121.00	63.49	661.22
POPW-4	706.49	04/18/03	113.50	95.77	610.72
		04/23/03	113.50	95.81	610.68
		05/05/03	113.50	95.98	610.51
		05/12/03	113.50	95.97	610.52
		05/15/03	113.50	96.08	610.41
		06/17/03	113.50	96.45	610.04
		08/26/03	113.50	96.52	609.97
		03/15/04	113.50	97.70	608.79
		06/04/04	113.50	97.85	608.64
		08/19/04	113.50	98.40	608.09
		01/24/05	113.50	97.85	608.64
		07/19/05	113.50	82.43	624.06
		01/18/06	113.50	80.04	626.45
		06/01/06	113.50	79.58	626.91
		07/17/06	113.50	79.70	626.79
		01/17/07	113.50	80.81	625.68
		08/28/07	113.50	82.61	623.88
		01/21/08	113.50	NM	NM
		04/23/08	113.50	85.65	620.84

NM - Not measured
ft TOC - feet below top of casing
ft MSL - feet above Mean Sea Level

Table 2
Summary of Soil Vapor Analytical Results
Poway Landfill
Poway, California

Geosyntec consultants

		Property Boundary Soil Vapor Wells				Background Soil Vapor Wells		Offsite Soil Vapor Wells										
		PVP-1A	PVP-2A	PVP-4A	PVP-4C*	PVP-5	PVP-6	VW-1A	VW-3A	VW-4A	VW-5A	VW-7A	VW-10	VW-11	VW-12	VW-12C*	VW-13	VW-14
	Units	4/21/2008	4/21/2008	4/21/2008	4/21/2008	4/21/2008	4/21/2008	4/21/2008	4/21/2008	4/21/2008	4/21/2008	4/22/2008	4/22/2008	4/22/2008	4/22/2008	4/22/2008	4/22/2008	4/22/2008
VOCs by Modified EPA Method TO-15[1]																		
Freon 12 (DCDFM)	ppbv	50	82	27	25	ND<1.1	ND<1.2	ND<1.3	1.5	2.6	5.4	ND<1.2	ND<1.2	ND<1.1	ND<1.1	4.1 J	ND<1.1	2.9
Freon 114	ppbv	9.0	7.7	1.4	1.6	ND<1.1	ND<1.2	ND<1.3	ND<1.2	ND<1.2	1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Freon 11	ppbv	ND<1.2	ND<1.2	ND<1.2	1.4	ND<1.1	ND<1.2	ND<1.3	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Ethanol	ppbv	ND<4.8	ND<4.8	ND<4.9 R	ND<4.8 R	8.1 J	21 J	ND<5.1 R	ND<4.8	ND<4.8	ND<4.7	ND<4.8	8.0	6.8	ND<4.4	7.9 J	12	9.0
Freon 113	ppbv	35	230	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.3	ND<1.2	ND<1.2	5.7	ND<1.2	ND<1.2	ND<1.1	ND<1.1	9.3 J	ND<1.1	5.4
Acetone	ppbv	7.8	8.8	12	13	4.5 J	14	15	4.7	4.7	50	ND<4.8	65	17	ND<4.4	ND<4.4	ND<4.5	ND<4.7
2-Propanol	ppbv	ND<4.8	ND<4.8	ND<4.9	ND<4.8	ND<4.5	ND<4.8	ND<5.1	ND<4.8	ND<4.8	ND<4.7	ND<4.8	ND<4.7	6.1	ND<4.4	ND<4.4	ND<4.5	ND<4.7
Carbon Disulfide	ppbv	ND<1.2	5.8	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.3	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Methylene Chloride	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.3	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Hexane	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.3	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
2-Butanone (Methyl Ethyl Ketone)	ppbv	2.5	4.6	4.1	3.5	ND<1.1	3.3	2.7	3.0	2.3	5.4	1.3	130	3.6	ND<1.1	ND<1.1	ND<1.1	1.2
cis-1,2-Dichloroethene	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.3	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	3.4	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Tetrahydrofuran	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.3	ND<1.2	ND<1.2	ND<1.2	ND<1.2	7.7	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Chloroform	ppbv	2.2	ND<1.2	1.9	2.1	ND<1.1	ND<1.2	1.3	ND<1.2	ND<1.2	ND<1.2	ND<1.2	1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Cyclohexane	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.3	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
2,2,4-Trimethylpentane	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	1.4	ND<1.3	ND<1.2	ND<1.2	18	ND<1.2	41	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Benzene	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	1.7	ND<1.3	ND<1.2	ND<1.2	1.2	ND<1.2	3.0	4.9	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Heptane	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	1.3	ND<1.3	ND<1.2	4.6	ND<1.2	ND<1.2	5.8	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
4-Methyl-2-pentanone	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.3	ND<1.2	ND<1.2	ND<1.2	ND<1.2	16	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Toluene	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	3.4	5.2	ND<1.2	9.5	57	ND<1.2	52	16	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Tetrachloroethene	ppbv	1.5	1.8	1.9	1.8	ND<1.1	ND<1.2	ND<1.3	ND<1.2	36	10	ND<1.2	ND<1.2	4.3	ND<1.1	2.9 J	ND<1.1	ND<1.2
2-Hexanone	ppbv	ND<4.8	ND<4.8	ND<4.9	ND<4.8	ND<4.5	ND<4.8	ND<5.1	ND<4.8	ND<4.8	ND<4.7	ND<4.8	43	ND<4.3	ND<4.4	ND<4.4	ND<4.5	ND<4.7
Ethyl Benzene	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.2	1.6	ND<1.2	9.2	ND<1.2	ND<1.2	16	3.5	ND<1.1	ND<1.1	ND<1.1	ND<1.2
m,p-Xylene	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	6.1	5.4	ND<1.2	36	6.5	ND<1.2	76	8.2	ND<1.1	ND<1.1	ND<1.1	ND<1.2
o-Xylene	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	2.4	2.3	ND<1.2	18	2.0	ND<1.2	37	3.6	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Cumene	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.3	ND<1.2	2.7	ND<1.2	ND<1.2	3.3	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
Propylbenzene	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.2	ND<1.3	ND<1.2	4.2	ND<1.2	ND<1.2	9.8	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
4-Ethyltoluene	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	2.1	1.3	ND<1.2	14	ND<1.2	ND<1.2	54	1.5	ND<1.1	ND<1.1	ND<1.1	ND<1.2
1,3,5-Trimethylbenzene	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	1.4	ND<1.3	ND<1.2	6.7	ND<1.2	ND<1.2	29	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
1,2,4-Trimethylbenzene	ppbv	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	2.8	ND<1.3	ND<1.2	20	ND<1.2	ND<1.2	87	1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2
1,2-Dichlorobenzene	ppbv	ND<1.2	ND<1.2	1.9 J	ND<1.2	ND<1.1	ND<1.2	ND<1.3	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.2	ND<1.1	ND<1.1	ND<1.1	ND<1.1	ND<1.2

Notes:
ppbv - parts per billion by volume
ND - Analyte not detected at a concentration greater than the detection limit
VOCs - Volatile Organic Compounds
* - Duplicate samples for PVP-4A and VW-12 are labeled PVP-4C and VW-12C, respectively
[1] - Other VOCs were not detected at concentrations greater than their respective detection limits
J - Estimated concentration greater than or equal to the method detection limit but less than the reporting limit

Table 2
Summary of Soil Vapor Analytical Results
Poway Landfill
Poway, California

Geosyntec consultants

	Units	QA/QC Samples			
		QCFB		QCTB	
		4/21/2008	4/22/2008	4/21/2008	4/22/2008
VOCs by Modified EPA Method TO-15[1]					
Freon 12 (DCDFM)	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
Freon 114	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
Freon 11	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
Ethanol	ppbv	ND<4.4	4.8	6.7	ND<2.0
Freon 113	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
Acetone	ppbv	5.8	10	13	ND<2.0
2-Propanol	ppbv	ND<4.4	ND<4.6	4.2	ND<2.0
Carbon Disulfide	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
Methylene Chloride	ppbv	ND<1.1	ND<1.1	2.2	ND<0.50
Hexane	ppbv	ND<1.1	ND<1.1	3.0	ND<0.50
2-Butanone (Methyl Ethyl Ketone)	ppbv	1.1	1.5	4.3	ND<0.50
cis-1,2-Dichloroethene	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
Tetrahydrofuran	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
Chloroform	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
Cyclohexane	ppbv	ND<1.1	ND<1.1	2.9	ND<0.50
2,2,4-Trimethylpentane	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
Benzene	ppbv	ND<1.1	ND<1.1	1.3	ND<0.50
Heptane	ppbv	ND<1.1	ND<1.1	1.2	ND<0.50
4-Methyl-2-pentanone	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
Toluene	ppbv	1.7	ND<1.1	18	ND<0.50
Tetrachloroethene	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
2-Hexanone	ppbv	ND<4.4	ND<4.6	ND<4.0	ND<2.0
Ethyl Benzene	ppbv	ND<1.1	ND<1.1	1.6	ND<0.50
m,p-Xylene	ppbv	1.1	ND<1.1	4.1	ND<0.50
o-Xylene	ppbv	ND<1.1	ND<1.1	1.5	ND<0.50
Cumene	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
Propylbenzene	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
4-Ethyltoluene	ppbv	ND<1.1	ND<1.1	1.1	ND<0.50
1,3,5-Trimethylbenzene	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50
1,2,4-Trimethylbenzene	ppbv	ND<1.1	ND<1.1	1.2	ND<0.50
1,2-Dichlorobenzene	ppbv	ND<1.1	ND<1.1	ND<1.0	ND<0.50

Notes:
ppbv - parts per billion by volume
ND - Analyte not detected at a concentration greater than the detection limit
VOCs - Volatile Organic Compounds
* - Duplicate samples for PVP-4A and VW-12 are labeled PVP-4C and VW-12C, respectively
[1] - Other VOCs were not detected at concentrations greater than their respective detection limits
J - Estimated concentration greater than or equal to the method detection limit but less than the reporting limit

Table 3
Summary of Historical Benzene, PCE, and TCE Concentrations in Soil Vapor
Poway Landfill
Poway, California

Geosyntec consultants

Onsite Soil Vapor Wells

Sample ID	Date	Benzene ppbv	TCE ppbv	PCE ppbv
Background Soil Vapor Wells				
PVP-5	4/19/2006	ND<1.3	ND<1.3	ND<1.3
	5/8/2006	ND<1.1	ND<1.1	1.2
	7/24/2006	ND<1.1	ND<1.1	ND<1.1
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
	7/23/2007	ND<1.0	ND<1.0	ND<1.0
	4/21/2008	ND<1.1	ND<1.1	ND<1.1
PVP-6	4/19/2006	ND<1.1	ND<1.1	ND<1.1
	5/8/2006	ND<1.2	ND<1.2	1.2
	7/24/2006	ND<1.1	ND<1.1	1.2
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
	7/23/2007	ND<1.2	ND<1.2	ND<1.2
	4/21/2008	1.7	ND<1.2	ND<1.2
Refuse Soil Vapor Wells				
PVP-7A	4/6/2006	100	19	ND<4.7
PVP-8	4/6/2006	130	36	18
PVP-9	4/6/2006	180	37	27
PVP-10A	4/6/2006	140	19	ND<4.8
Soil Vapor Wells Underlying Refuse				
PVP-7B	4/6/2006	87	10	3.3
PVP-10B	4/6/2006	120	23	5.0

Table 3
Summary of Historical Benzene, PCE, and TCE Concentrations in Soil Vapor
Poway Landfill
Poway, California

Geosyntec consultants

Sample ID	Date	Benzene ppbv	TCE ppbv	PCE ppbv
Property Boundary Soil Vapor Wells				
PVP-1	2/2/2006[1]	120	ND<7.8	ND<7.8
	2/14/2006[1]	140	ND<9.2	ND<9.2
PVP-1D	2/2/2006*	150	ND<3.1	ND<3.1
PVP-1A	4/19/2006	ND<1.3	ND<1.3	1.8
	5/8/2006	ND<1.3	ND<1.3	2.1
	7/24/2006	ND<1.3	ND<1.3	2.9
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
	7/23/2007	ND<1.3	ND<1.3	ND<1.3
	4/21/2008	ND<1.2	ND<1.2	1.5
PVP-2A-R	2/14/2006[1]	9.5	ND<1.1	3.9
PVP-2AD-R	2/14/2006*	8.6	ND<2.4	4.2
PVP-2A	2/2/2006	19	ND<1.2	ND<1.2
	2/14/2006[1]	11	5.2	ND<4.7
	5/8/2006	ND<1.1	ND<1.1	3.6
	7/24/2006	ND<1.2	ND<1.2	3.4
	1/22/2007	ND<1.1	ND<1.1	2.5
	7/23/2007	3.8	ND<1.2	ND<1.2
	4/21/2008	ND<1.2	ND<1.2	1.8
PVP-2B-R	2/14/2006[1]	100	ND<32	ND<32
PVP-2B	2/2/2006[1]	ND<1.1	ND<1.1	ND<1.1
	2/14/2006	ND<2.3	ND<2.3	ND<2.3
	5/8/2006[1]	3.0	ND<3.0	ND<3.0
PVP-3A	2/2/2006	36	ND<1.2	ND<1.2
	2/14/2006[1]	26	ND<1.2	ND<1.2
	4/19/2006	1.4	ND<1.3	ND<1.3
	4/19/2006*	5.4	ND<1.1	5.4
	5/8/2006	1.5	ND<1.2	4.2
	5/8/2006*	1.3	ND<1.2	1.4
	7/24/2006	ND<1.2	ND<1.2	1.2
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
	1/22/2007*	ND<1.1	ND<1.1	1.1
	7/23/2007	ND<1.2	ND<1.2	ND<1.2
PVP-3B	2/2/2006	58	ND<6.2	ND<6.2
	2/14/2006	92	ND<4.8	ND<4.8
	4/19/2006	6.2	ND<1.2	5.6
	5/8/2006	7.0	ND<1.3	3.8
PVP-4A	4/20/2006	ND<1.1	ND<1.1	3.2
	5/8/2006	ND<1.2	ND<1.2	3.4
	7/24/2006	ND<1.2	ND<1.2	4.0
	1/22/2007	ND<1.2	ND<1.2	2.2
	7/23/2007	ND<1.2	ND<1.2	3.8
	7/23/2007*	ND<1.3	ND<1.3	3.8
	4/21/2008	ND<1.2	ND<1.2	1.9
	4/21/2008*	ND<1.2	ND<1.2	1.8
PVP-4B	5/8/2006[1]	ND<370	ND<370	ND<370

Table 3
Summary of Historical Benzene, PCE, and TCE Concentrations in Soil Vapor
Poway Landfill
Poway, California

Geosyntec consultants

Offsite Permanent Soil Vapor Wells

Sample ID	Date	Benzene ppbv	TCE ppbv	PCE ppbv
100 feet from Property Boundary				
VW-1A	4/20/2006	ND<4.9	ND<4.9	ND<4.9
	5/8/2006	ND<1.2	ND<1.2	ND<1.2
	7/24/2006	ND<1.2	ND<1.2	ND<1.2
	7/24/2006*	1.5	ND<1.2	ND<1.2
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
	7/24/2007	ND<1.3	ND<1.3	ND<1.3
	4/21/2008	ND<1.3	ND<1.3	ND<1.3
VW-1B	4/20/2006	2.9	ND<1.2	3.3
	5/9/2006	ND<1.2	ND<1.2	3.3
	7/24/2006	ND<1.2	ND<1.2	1.6
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
	7/23/2007	ND<1.3	ND<1.3	ND<1.3
VW-2A	4/20/2006	5.9	ND<1.1	4.1
	4/20/2006*	6.5	ND<1.2	4.1
	5/9/2006	1.2	ND<1.2	2.5
	7/25/2006	ND<1.3	ND<1.3	ND<1.3
	1/22/2007	ND<1.1	ND<1.1	ND<1.1
	7/23/2007	ND<1.2	ND<1.2	ND<1.2
VW-2B	5/11/2006[1]	ND<220	ND<220	ND<220
VW-3A	4/20/2006	ND<1.1	ND<1.1	ND<1.1
	5/9/2006	ND<1.2	ND<1.2	ND<1.2
	7/24/2006	ND<1.2	ND<1.2	ND<1.2
	1/23/2007	ND<1.0	ND<1.0	ND<1.0
	7/24/2007	ND<1.2	ND<1.2	ND<1.2
	7/24/2007*	ND<1.2	ND<1.2	ND<1.2
	4/21/2008	ND<1.2	ND<1.2	ND<1.2
VW-3B	5/11/2006[1]	ND<81	ND<81	ND<81
VW-4A	4/24/2006	ND<1.2	ND<1.2	51
	5/9/2006	ND<1.2	ND<1.2	59
	5/9/2006*	ND<1.1	ND<1.1	49
	7/25/2006	ND<1.2	ND<1.2	73
	1/22/2007	ND<1.1	ND<1.1	9.6
	7/23/2007	ND<1.1	ND<1.1	62
	4/21/2008	ND<1.2	ND<1.2	36
VW-4B	4/24/2006	6.0	ND<1.1	62
	5/9/2006	2.4	1.5	88
	7/25/2006	ND<1.3	ND<1.3	69
	1/22/2007	ND<1.2	ND<1.2	60
	7/23/2007	ND<1.2	ND<1.2	69
VW-5A	5/9/2006	ND<1.2	1.8	19
	7/24/2006	ND<1.2	ND<1.2	20
	1/23/2007	ND<1.1	ND<1.1	8.2
	7/24/2007	ND<1.1	ND<1.1	23
	4/21/2008	1.2	ND<1.2	10
VW-5B	5/11/2006[1]	ND<19	ND<19	ND<19
VW-6A	5/10/2006	3.8	ND<1.2	6.2
	7/24/2006	ND<1.3	ND<1.3	3.1
	1/23/2007	ND<1.1	ND<1.1	ND<1.1
VW-6B	5/11/2006[1]	ND<10	ND<10	11
VW-7A	4/24/2006	2.6	19	3.7
	4/24/2006*	2.6	19	3.6
	5/10/2006	2.2	5.6	2.0
	7/25/2006	ND<1.2	ND<1.2	2.6
	1/23/2007	ND<1.1	ND<1.1	ND<1.1
	7/24/2007	ND<1.2	ND<1.2	ND<1.2
	4/22/2008	ND<1.2	ND<1.2	ND<1.2

Table 3
Summary of Historical Benzene, PCE, and TCE Concentrations in Soil Vapor
Poway Landfill
Poway, California

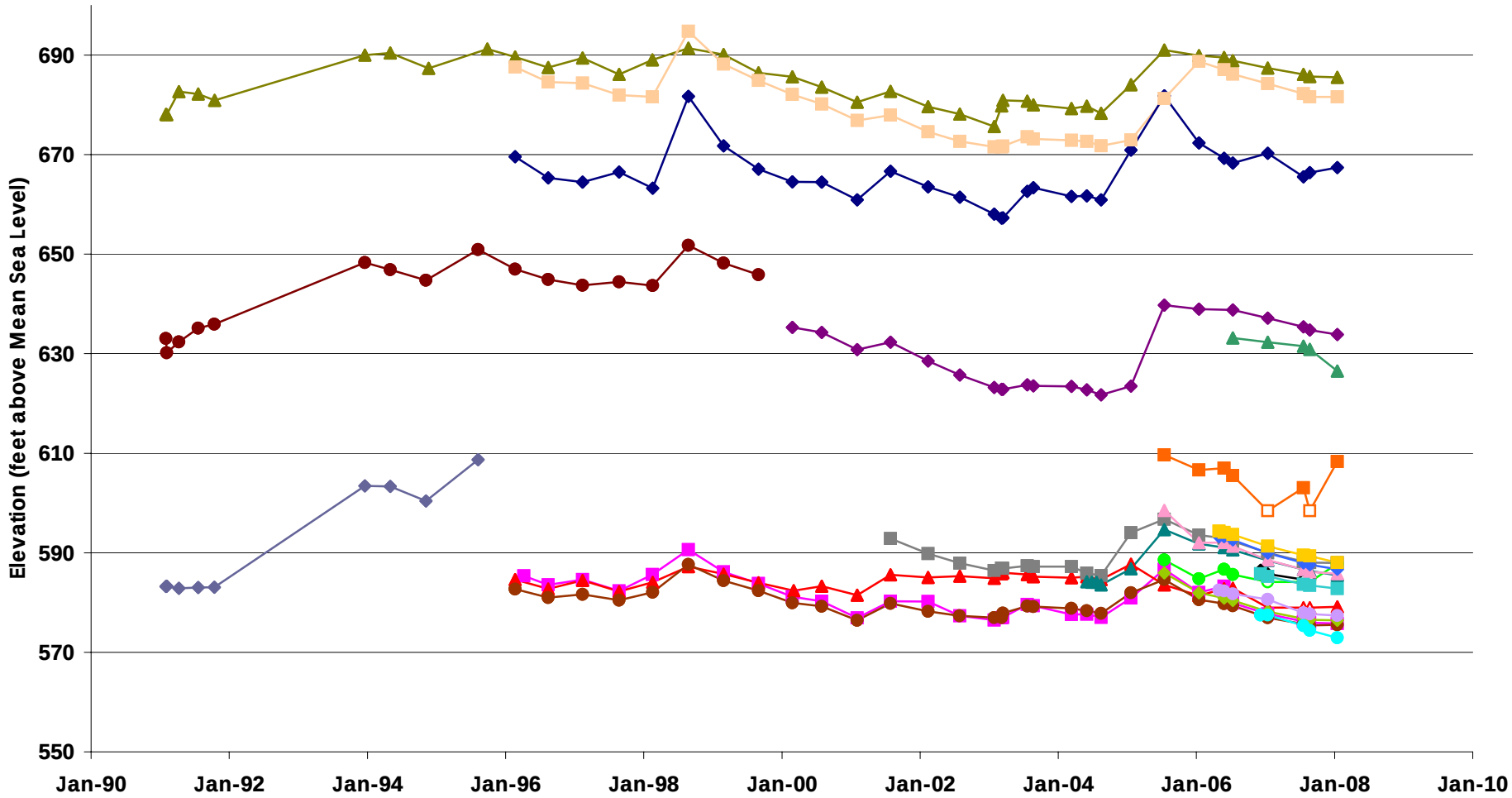
Geosyntec consultants

Offsite Permanent Soil Vapor Wells

Sample ID	Date	Benzene ppbv	TCE ppbv	PCE ppbv
300 feet from Property Boundary				
VW-8A	4/24/2006	ND<1.1	3.7	2.1
	5/9/2006	ND<1.2	2.8	2.2
	7/25/2006	ND<1.2	ND<1.2	2.8
	7/25/2006*	ND<1.2	ND<1.2	3
	1/23/2007	ND<1.1	ND<1.1	ND<1.1
	1/23/2007*	ND<1.1	ND<1.1	ND<1.1
	7/24/2007	ND<1.2	ND<1.2	1.9
VW-8B	4/25/2006	ND<1.1	ND<1.1	1.7
	5/9/2006	ND<1.1	ND<1.1	1.9
	7/25/2006	ND<1.1	ND<1.1	1.9
	1/23/2007	ND<1.1	ND<1.1	ND<1.1
	7/24/2007	ND<1.2	ND<1.2	1.4
VW-9	5/11/2006[1]	ND<150	ND<150	ND<150
VW-10	4/25/2006	ND<1.1	ND<1.1	ND<1.1
	4/25/2006*	ND<1.2	ND<1.2	ND<1.2
	5/10/2006	2.5	ND<1.1	ND<1.1
	7/25/2006	ND<1.2	ND<1.2	ND<1.2
	1/23/2007	1.3	ND<1.1	ND<1.1
	7/24/2007	ND<1.2	ND<1.2	ND<1.2
	4/22/2008	3.0	ND<1.2	ND<1.2
1000 feet from Property Boundary				
VW-11	4/25/2006	1.5	ND<1.1	ND<1.1
	5/10/2006	1.8	ND<1.1	ND<1.1
	5/10/2006*	ND<1.1	ND<1.1	1.3
	7/25/2006	ND<1.2	ND<1.2	ND<1.2
	1/23/2007	ND<1.1	ND<1.1	ND<1.1
	7/24/2007	ND<1.3	ND<1.3	ND<1.3
	4/22/2008	4.9	ND<1.1	4.3
VW-12	5/10/2006	ND<1.2	ND<1.2	4.3
	6/1/2006	ND<1.1	ND<1.1	6.7
	6/1/2006*	ND<1.2	ND<1.2	6.7
	7/25/2006	ND<1.2	ND<1.2	9.3
	1/23/2007	ND<1.2	ND<1.2	3.6
	7/24/2007	ND<1.1	ND<1.1	9.2
	4/22/2008	ND<1.2	ND<1.2	ND<1.2
	4/22/2008*	ND<1.1	ND<1.1	2.9 J
VW-13	5/10/2006	5.0	4.2	2.6
	6/1/2006	ND<1.3	2.4	5.3
	7/25/2006	ND<1.3	ND<1.3	2.8
	1/23/2007	ND<1.2	ND<1.2	ND<1.2
	7/24/2007	ND<1.3	ND<1.3	ND<1.3
	4/22/2008	ND<1.1	ND<1.1	ND<1.1
VW-14	5/10/2006	3.7	3.5	1.4
	6/1/2006	ND<1.3	4.0	1.5
	7/25/2006	ND<1.3	ND<1.3	ND<1.3
	1/23/2007	ND<1.1	ND<1.1	ND<1.1
	7/24/2007	ND<1.2	ND<1.2	ND<1.2
	4/22/2008	ND<1.2	ND<1.2	ND<1.2

ppbv -parts per billion by volume
* Duplicate sample collected at vapor well
[1] - Tracer gas breakthough in soil vapor well
J - Estimated concentration greater than or equal to the method detection limit, but less than the reporting limit

FIGURES



POGW-6	POGW-7	POGW-8	POGW-9
POGW-10	POGW-11	POGW-12	POGW-13
POGW-14	POGW-15	POGW-16	POGW-17A
POGW-17B	POGW-18A	POGW-18B	POGW-19
POGW-20	POGW-21	POGW-22	POGW-23
POGW-24A	POGW-24B		

Open symbols indicate dry wells (plotted at the well bottom elevation)

Groundwater Hydrograph
Poway Landfill

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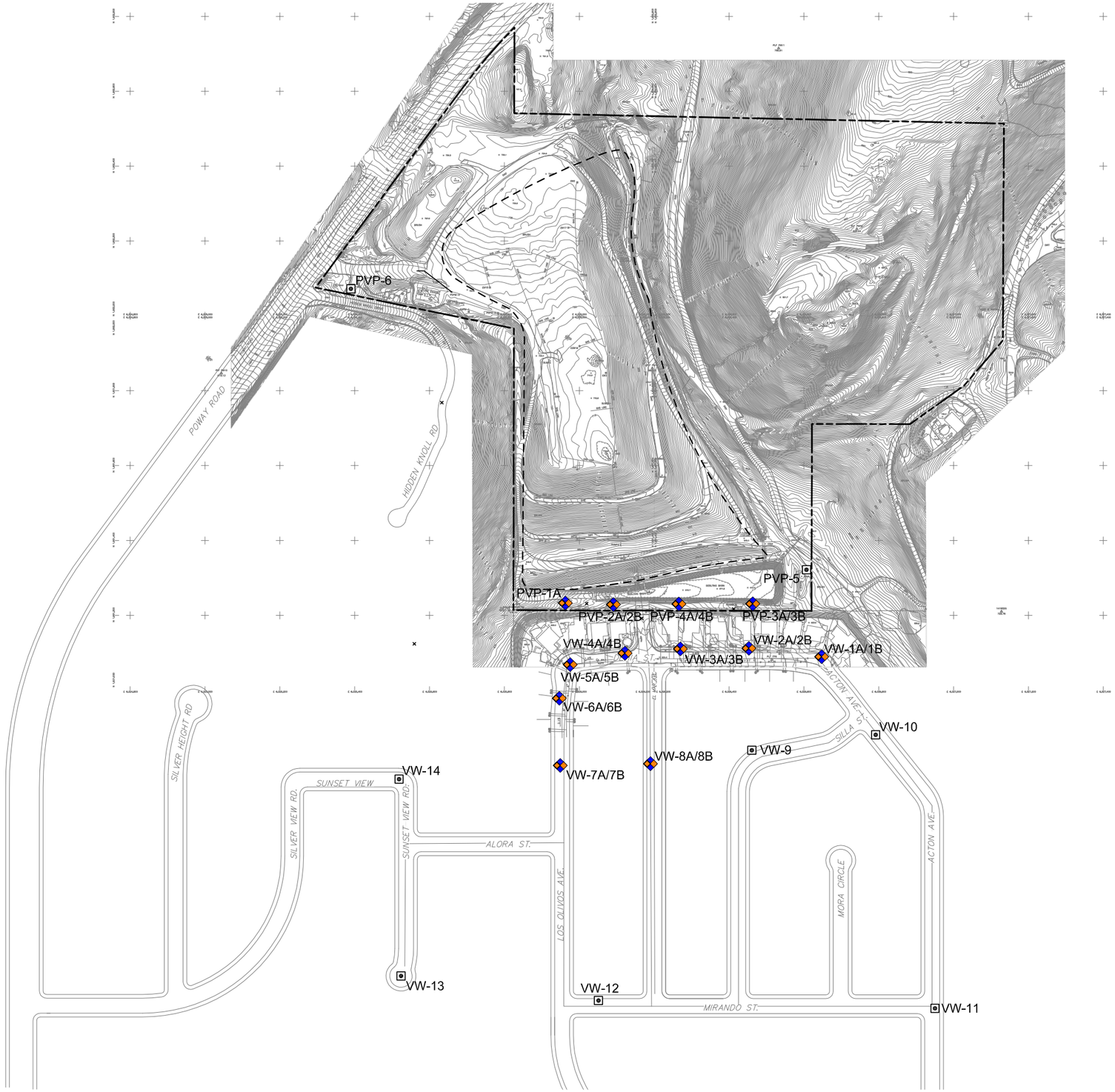
San Diego | June 2008

Figure 1

K:\SC0226 SDCG Routine Services\Reports\08q1\Time-Series Plots 2\Viejas_1q08\[SanDiegoCounty_Hydrographs1Q08.xls]Poway Plot



LEGEND

- SOIL VAPOR WELL CLUSTER
- VAPOR WELL (5 FEET BGS)
- APPROXIMATE PROPERTY BOUNDARY
- APPROXIMATE TRASH/REFUSE BOUNDARY
- EXISTING PAVED ROAD
- EXISTING DIRT ROAD

N

300 150 0 300

SCALE IN FEET

BASE MAP REFERENCE:
STEWART GEO TECHNOLOGIES JULY 2002

SOIL VAPOR SAMPLE LOCATIONS
POWAY LANDFILL
POWAY, CALIFORNIA

Geosyntec consultants

DATE:	JUNE 2008	FIGURE
PROJECT NO.	SC0233-14-02	2

P:\PRJ\SDCadd\CADD\SC0233\Figures\Soil Vapor Sampling Report\2007\1Q07\SC0233_Figure 2_Soil Vapor Locations.dwg

Benzene Concentrations in Soil Vapor
April 2008
Poway Landfill
Poway, California

ND
POWAY ROAD
ND
1.5
1.8
1.9
10
36
ND
ND
DEHIA ST.
ND
ND
ND
ACTON AVE
LOS OLIVOS AVE.
EL MAR AVE
SILLA ST.
ALORA ST.
SUNSET VIEW RD.
MORA CIR
ND
2.9
MIRANDO ST.
4.3
300 150 0 300 Feet
Legend
PCE in Soil Vapor (ppbv)
10.1 - 100
1.3 - 10
ND < 1.2
Not sampled due to high vacuum or water encountered during purging
Notes: Highest concentration detected at 5 or 10 feet bgs at each location during the April 2008 sampling event.
PCE Concentrations in Soil Vapor
April 2008
Poway Landfill
Poway, California
Geosyntec consultants
San Diego
June 2008
Figure
4

TCE Concentrations in Soil Vapor
April 2008
Poway Landfill
Poway, California

Geosyntec consultants

San Diego | June 2008

Figure 5

ATTACHMENT A

Soil Vapor Sample Collection Logs

Geosyntec consultants

CALIBRATION LOG FOR AIR SAMPLING

Date	Time	Unit Description			Calibration Gas			Reading	Comments
		Brand	Type	Serial #	Type	lot#	PPM	PPM	
4/21	9:05	LANDTEC	GEM	GM05584	CH_4	917982	50	49.5	
↓	↓	↓	↓	↓	CO_2	917982	35	34.5	
↓	9:10	↓	↓	~~R7160~~	CH_4	↓	50	49.45	SM 4/21 serial #
↓	↓	↓	↓	↓	CO_2	↓	35	35.1	GM07948105
4/22	7:49	LANDTECH	GEM	GM05584	CH_4	917982	50	49.8	
↓	↓	↓	↓	↓	CO_2	917982	35	34.3	
↓	8:35	LANDTECH	GEM	~~R7160~~	CH_4	↓	50	49.7	
↓	↓	↓	↓	↓	CO_2	↓	35	34.8	

-- Not Applicable

SOIL GAS PROBE MEASUREMENTS

Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway
Project Number: SC0233
Phase Number: 14-01
Date: 4/10/2008 Weather: Sunny
Field Personnel: C. Gale & S. Aadnes
Tracer Gas: He

Probe # PVP-1
PID Model # N.A.
PID Serial # N.A
Landtech GEM 2000 Landfill Gas Meter Serial # N.A.
Helium detector (model and serial number) N.A.
Air Temperature 76° Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	N.A.	Time	N.A.	Initial Pressure/Vacuum (prior to pumping)	0	Time	1119

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_20)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1120	1120	—	—	.200	—	>100	—	—	—	—	—	—	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments Pumped for 15 seconds

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10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/21/05 Weather: Sunny 72
Field Personnel: S. Andrews, C. Gale
Tracer Gas: He

Probe # PVP-1A
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # 0794005
Helium detector (model and serial number) Dielectric R9 587
Air Temperature 72 Atm. Pressure — (in Hg)

Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	0.0	Time	1025	Initial Pressure/Vacuum (prior to pumping)	0	Time	1026

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID (ppmv)~~ Balance
1028	1040	12	3	.167	1.0	58.0	0	2.0	17.8	30	80	<1.0	79.2
1042	1056	14	1	.167	1.0	85.0	—	—	—	30	80	—	—
1056	1103	7	3	.167	.50	38.0	—	—	—	30	90	<1.0	—

sample

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1042	PVP 1A	PVP 1A	12038	-30.0	-3.5

Comments: Leak Test ✓ ok. Increased vacuum from last sampling event.

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10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/21/08 Weather: Sunny 72
Field Personnel: S. Audues, C. Gale.
Tracer Gas: He

Probe # PVP-2A
PID Model # –
PID Serial # –
Landtech GEM 2000 Landfill Gas Meter Serial # 0794805
Helium detector (model and serial number) Dielectric 89 587
Air Temperature 72 Atm. Pressure – (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	0	Time	1123	Initial Pressure/Vacuum (prior to pumping)	0	Time	1123

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID~~ Balance (ppmv)	
1123	1131	8	3	.167	1	1.5	0	.6	19.0	30	88	<1.0	80.3	
1133	1143	10	1	.167	1	1.9	–	–	–	30	70	–	–	sample
1143	1146	3	3	.167	.50	2.0	–	–	–	30	74	<1.0	–	

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1133	PVP-2A	PVP-2A	34623	-30.0	-2.5

Comments Leak Test ✓ok.

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Geosyntec consultants
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10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway
Project Number: SC0233
Phase Number: 14-01
Date: 4/10/2008 Weather: Sunny
Field Personnel: C. Gale & S. Aadnes
Tracer Gas: He

Probe # PVP-2B
PID Model # N.A.
PID Serial # N.A.
Landtech GEM 2000 Landfill Gas Meter Serial # N.A
Helium detector (model and serial number) N.A
Air Temperature 77° Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	N.A	Time	N.A	Initial Pressure/Vacuum (prior to pumping)	8.0	Time	1130

Subsurface type ☐ Asphalt ☑ Concrete ☐ Grass ☐ Other
Surface thickness: 6" in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1131	1134	—	—	.200	—	7 100	—	—	—	—	—	—	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments: Pumped for 3 minutes

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Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/21/08 Weather: SUNNY
Field Personnel: D.S. SM
Tracer Gas: He

Probe # SVP-3A
PID Model # NA
PID Serial # NA
Landtech GEM 2000 Landfill Gas Meter Serial # GM05584
Helium detector (model and serial number) DIGLEGARE R6132
Air Temperature — Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	NA	Time	NA	Initial Pressure/Vacuum (prior to pumping)	0.10	Time	10:41

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	NA 0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
10:43	—	—	—	—	—	7100	—	—	—	30	70	—	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
*	*	*	*	*	*

Comments * WELL HEAD VACUUM 7100 in H2O - NO SAMPLE COLLECTED

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Geosyntec consultants
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10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway
Project Number: SC0233
Phase Number: 14-01
Date: 4/10/2008 Weather: Sunny
Field Personnel: C. Gale & S. Aadnes
Tracer Gas: He

Probe # PVP-3B
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # —
Helium detector (model and serial number) —
Air Temperature — Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	—	Time	—	Initial Pressure/Vacuum (prior to pumping)	0	Time	1202

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☒ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1203	1208	5	—	0.200	—	>100	—	—	—	—	—	—	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments

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Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/21/08 Weather: SUNNY
Field Personnel: D.S. S.M
Tracer Gas: He

Probe # PVP-4A
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # # GM05584
Helium detector (model and serial number) DIELECTRIC R6132
Air Temperature NA Atm. Pressure NA (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	NA	Time	NA	Initial Pressure/Vacuum (prior to pumping)	0	Time	11:16

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_20)
	0.2	
	NA 0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" ~~in~~/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~CALIBRATE~~ VOCs by PID (ppmv)
11:18	11:27	9	3	0.167	1	0	0	1.3	19.6	30	80	0	—
Sample ~~11:27/11:55~~						~~0.05~~							
11:52	11:55	3	3	0.167	0.3	0.01	NA	NA	NA	30	80	0	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
11:35	PVP-4A	PVP-4A	20776	-30	4.5
11:35	PVP-4A	PVP-4B	~~SMG506~~ SL100	-30	4.5

Comments

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Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway
Project Number: SC0233
Phase Number: 14-01
Date: 4/10/2008 Weather: Sunny
Field Personnel: C. Gale & S. Aadnes
Tracer Gas: He

Probe # PVP-4B
PID Model # N.A
PID Serial # N.A
Landtech GEM 2000 Landfill Gas Meter Serial # N.A
Helium detector (model and serial number) N.A
Air Temperature 77° Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	N.A	Time	N.A	Initial Pressure/Vacuum (prior to pumping)	0 ~~1149~~	Time	1149

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1150	1152	—	—	.200	—	7100	—	—	—	—	—	—	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments Pumped for 2 minutes

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Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/21/08 Weather: SUNNY
Field Personnel: S. M D. S
Tracer Gas: He

Probe # PVP-5
PID Model # –
PID Serial # –
Lamp: 10.6 / 11.7 eV
Landtech GEM 2000 Landfill Gas Meter Serial # GM05584
Helium detector (model and serial number) DIELECTRIC R6132
Air Temperature – Atm. Pressure – (in Hg)

Field tubing blank (ppmv)	–	Time	–	Initial Pressure/Vacuum (prior to pumping)	0	Time	9:40

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" (in)/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	1.4	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
9:45	9:57	6	3	0.167	1	0.05	0	1	19.8	30	70	< 1	NA
10:12	10:15	3	3	0.167	0.5	0	– NA –	– NA –	– NA –	30	70	< 1	NA

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
10:00	PVP-5	PVP-5	9468	30	3

Comments

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Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/21/08 Weather: Sunny 72°
Field Personnel: S. Andrews, C. Gale
Tracer Gas: He

Probe # PVP-6
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # 0794805
Helium detector (model and serial number) Dielectric R9587
Air Temperature 72 Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	0.0	Time	0930	Initial Pressure/Vacuum (prior to pumping)	0	Time	0933

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
—	0.2	
	0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID~~ Balance
0937	0943	6	3	.167	1	.60	0	2.9	18.3	30	65	<1.0	78.7
0945	0953	8	1	.167	1	.85	—	—	—	30	75	—	—
0954	0956	2	3	.167	.5	.90	—	—	—	30	80	<1.0	—

→ Sample

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
0945	PVP-6	PVP-6	33645	-29.5	4.0

Comments: Leak Test ✓ok

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Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/21/08 Weather: Sunny
Field Personnel: D.S S.M
Tracer Gas: He

Probe # VW-1A
PID Model # NA
PID Serial # NA
Landtech GEM 2000 Landfill Gas Meter Serial # GM05584
Helium detector (model and serial number) Pielsonic R6132
Air Temperature NA Atm. Pressure NA (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	NA	Time	NA	Initial Pressure/Vacuum (prior to pumping)	0	Time	1306

Subsurface type ☒ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" cm/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	NA 0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
13:08	13:15	7	3	0.167	1	0.05	0	3.2	17.9	30	90	0 < 1	NA
13:26	13:29	3	0.3	0.167	0.3	0.50	NA	NA	NA	30	90	< 1	NA

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
13:16	VW-1A	VW-1A	11429	30	7

Comments
BAL - 78.9

SOIL GAS PROBE MEASUREMENTS

Geosyntec consultants
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10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/24/08 Weather: SUNNY
Field Personnel: D. SHERMAN . S. McCLARTY
Tracer Gas: He

Probe # VW-1B
PID Model # NA
PID Serial # NA
Lamp: 10.6 / 11.7 eV
Landtech GEM 2000 Landfill Gas Meter Serial # GM05584
Helium detector (model and serial number) DIELECTRIC R6132
Air Temperature NA Atm. Pressure NA (in Hg)

Field tubing blank (ppmv)	NA	Time	NA	Initial Pressure/Vacuum (prior to pumping)	0	Time	13:32

Subsurface type	☐ Asphalt	☑ Concrete	☐ Grass	☐ Other
Surface thickness: 6 (in)/cm		☐ unknown		
(ie. asphalt of concrete surface)				

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	NA 0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
13:33	–	–	–	–	–	80	–	–	–	–	–	–	–
13:35	–	–	–	–	–	>100	NA	NA	NA	–	–	–	–

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
*	*	*	*	*	*

Comments * >100" H_2O ∴ NO SAMPLE COLLECTED

SOIL GAS PROBE MEASUREMENTS

Geosyntec consultants
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10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/2/08 Weather: SUNNY
Field Personnel: D.S. S.M
Tracer Gas: He

Probe # VW-2A
PID Model # NA
PID Serial # NA
Lamp: 10.6 / 11.7 eV
Landtech GEM 2000 Landfill Gas Meter Serial # GM05584
Helium detector (model and serial number) PIELECTRIC R6132
Air Temperature NA Atm. Pressure NA (in Hg)

Field tubing blank (ppmv)	NA	Time	NA	Initial Pressure/Vacuum (prior to pumping)	0	Time	14:00

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" (in)/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	NA 0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1410	NA	NA	3	0.167	NA	>100	NA	NA	NA	30	80	NA	NA

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
*	*	*	*	*	*

Comments WELL HEAD VACUUM * >100 " H_2O ∴ NO SAMPLE COLLECTED

SOIL GAS PROBE MEASUREMENTS

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San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway
Project Number: SC0233
Phase Number: 14-01
Date: 4/10/2008 Weather: Sunny
Field Personnel: C. Gale & S. Aadnes
Tracer Gas: He

Probe # VW-2B
PID Model # N.A
PID Serial # N.A
Landtech GEM 2000 Landfill Gas Meter Serial # N.A
Helium detector (model and serial number) N.A
Air Temperature 77° Atm. Pressure – (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	N.A	Time	—	Initial Pressure/Vacuum (prior to pumping)	0	Time	1439

Subsurface type	☒ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: 6" in/cm ☐ unknown (ie. asphalt of concrete surface)	

1 Casing Volume	
☐ Sub-slab <0.1 L	
Soil gas probe	(L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1440	1440	–	–	.200	–	7100	–	–	–	–	–	–	–

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments Pumped for 15 seconds

SOIL GAS PROBE MEASUREMENTS

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San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/21/08 Weather: SUNNY
Field Personnel: D.S. S.M
Tracer Gas: He

Probe # VEW-3A
PID Model # NA
PID Serial # NA
Lamp: 10.6 / 11.7 eV
Landtech GEM 2000 Landfill Gas Meter Serial # GM 05584
Helium detector (model and serial number) DIELECTRIC R6132
Air Temperature NA Atm. Pressure NA (in Hg)

Field tubing blank (ppmv)	NA	Time	NA	Initial Pressure/Vacuum (prior to pumping)	0	Time	14:45

Subsurface type ☐ Asphalt ☑ Concrete ☐ Grass ☐ Other
Surface thickness: 6" (in/cm) ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	NA 0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
14:46	14:52	6	3	0.167	1	0	0	3.0	16.4	30	80	<1	
15:11	15:14	3	3	0.167	0.3	0	—	—	—	30	80	<1	

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
14:57	VW-3A	VW-3A	1491	30	6

Comments: BALANCE - 80.6%

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San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway
Project Number: SC0233
Phase Number: 14-01
Date: 4/10/2008 Weather: Sunny
Field Personnel: C. Gale & S. Aadnes
Tracer Gas: He

Probe # VW-33
PID Model # N.A
PID Serial # N.A
Landtech GEM 2000 Landfill Gas Meter Serial # N.A
Helium detector (model and serial number) N.A
Air Temperature 77° Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	N.A	Time	N.A	Initial Pressure/Vacuum (prior to pumping)	0	Time	1450

Subsurface type ☒ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: 6" in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1450	1452	1	—	.200	—	7100	—	—	—	—	—	—	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments Pumped for 1 minute.

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858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/21/08 Weather: Sunny 72°
Field Personnel: S. Andrews, C. Gale
Tracer Gas: He

Probe # VW-4A
PID Model # –
PID Serial # –
Landtech GEM 2000 Landfill Gas Meter Serial # 0794805
Helium detector (model and serial number) Dielectric R9587
Air Temperature 72 Atm. Pressure – (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	0	Time	1340	Initial Pressure/Vacuum (prior to pumping)	0	Time	1341

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.5	
	1	

Subsurface type ☒ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID~~ (ppmv) Balance
1341	1349	8	3	.167	1	.50	0	5.2	12.9	30	62	<1.0	81.8
1350	1358	8	1	.167	1	.40	–	–	–	30	75	–	–
1358	1403	5	1	.167	.50	.40	–	–	–	30	68	<1.0	–

Sample

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1350	VW-4A	VW-4A	11437	26.5	-3.5

Comments Leak test ✓ok.

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San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/21/08 Weather: Sunny 72°
Field Personnel: S. Andrews, C. Gate
Tracer Gas: He

Probe # VW-4B
PID Model # –
PID Serial # –
Landtech GEM 2000 Landfill Gas Meter Serial # 07948-05
Helium detector (model and serial number) Dielectric R9587
Air Temperature 72 Atm. Pressure – (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	0 ~~13~~ Sum	Time	1313	Initial Pressure/Vacuum (prior to pumping)	0	Time	1316

Subsurface type	☒ Asphalt ☐ Concrete ☐ Grass ☐ Other	1 Casing Volume
Surface thickness: _____ in/cm (ie. asphalt of concrete surface)	☐ unknown	☐ Sub-slab <0.1 L Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L) Sum	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max.	Tracer Gas (%) Sample	~~VOCs by PID~~ (ppmv) Balance
1318	1323	5	3	.167	~~.200~~	100	–	–	–	–	–	–	

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
	VW-4B	VW-4B	~~33648~~	-29.5	-29.5

Comments: Leak Test ✓ ok. Cannot Sample due to well head vacuum over 100.0 in H_2O. Summa VOID.

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San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/21/08 Weather: Sunny 72
Field Personnel: S. Andnes, C. Gale
Tracer Gas: He

Probe # VW-5A
PID Model # –
PID Serial # –
Landtech GEM 2000 Landfill Gas Meter Serial # 0794805
Helium detector (model and serial number) Dielectric R9587
Air Temperature 72 Atm. Pressure – (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	0	Time	1426	Initial Pressure/Vacuum (prior to pumping)	0	Time	1429

Subsurface type ☒ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
–	0.2	
	0.5	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID~~ Balance (ppmv)
1430	1437	7	3	.167	1	.95	0.0	2.6	15.9	30	79	<1.0	~~84~~ 81.5
1439	1445	9	1	.167	1	1.0	–	–	–	30	77	–	– → Sample
1449	1453	4	3	.167	.50	1.0	–	–	–	30	77	<1.0	–

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1439	VW-5A	VW-5A	12378	-30.0	-3.0
1436	VW-5A	QCFB	34122	-25.5	-1.5

Comments Leak Test Ok.

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San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway
Project Number: SC0233
Phase Number: 14-01
Date: 4/10/2008 Weather: Sunny
Field Personnel: C. Gale & S. Aadnes
Tracer Gas: He

Probe # IW-5B
PID Model # N.A.
PID Serial # N.A
Landtech GEM 2000 Landfill Gas Meter Serial # N.A
Helium detector (model and serial number) N.A
Air Temperature 77 Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	N.A.	Time	N.A.	Initial Pressure/Vacuum (prior to pumping)	16.0	Time	1500

Subsurface type ☒ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: 6" in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
—	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1501	1501	—	—	.200	—	7100	—	—	—	—	—	—	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments Pumped for 10 seconds

SOIL GAS PROBE MEASUREMENTS

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San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/22/08 Weather: Sunny 74
Field Personnel: S. Andrews, C. Gale
Tracer Gas: He

Probe # VW-6A
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # 0794805
Helium detector (model and serial number) Dielectric R9587
Air Temperature 74 Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	0	Time	1057	Initial Pressure/Vacuum (prior to pumping)	0	Time	1058

Subsurface type ☒ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID (ppmv)~~ Balance
1059	1109		3	.167	1	87.0	increased			30	64		
						100.00							

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
	~~DW-6A~~	~~VW-6A~~	9538	-27.0	

Comments Leak Test ✓ ok. Vacuum @ well head over 100 in H_2O after 10 minutes.

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San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway
Project Number: SC0233
Phase Number: 14-01
Date: 4/10/2008 Weather: Sunny
Field Personnel: C. Gale & S. Aadnes
Tracer Gas: He

Probe # ~~N.A~~ Sma VW-6B
PID Model # N.A
PID Serial # N.A
Landtech GEM 2000 Landfill Gas Meter Serial # N.A
Helium detector (model and serial number) N.A
Air Temperature 77 Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)		Time		Initial Pressure/Vacuum (prior to pumping)	16.0	Time	1514

Subsurface type	☒ Asphalt	☐ Concrete	☐ Grass	☐ Other
Surface thickness:	6" in/cm	☐ unknown		
(ie. asphalt of concrete surface)				

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1515	1515	—	—	.200	—	7100	—	—	—	—	—	—	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments
Pumped for 10 Seconds

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San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/22/08 Weather: Sunny 74
Field Personnel: S. Andrews, C. Gale
Tracer Gas: He

Probe # VW-7A
PID Model # —
PID Serial # —
Lamp: 10.6 / 11.7 eV
Landtech GEM 2000 Landfill Gas Meter Serial # 0794805
Helium detector (model and serial number) Dielectric R9587
Air Temperature 74 Atm. Pressure — (in Hg)

Field tubing blank (ppmv)	0	Time	1238	Initial Pressure/Vacuum (prior to pumping)	0	Time	1241

Subsurface type ☒ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID~~ (ppmv)
1242	1252	10	3	.167	1	1.1	0	8.3	10.4	30	66	<1.0	Balance
1254	1302	8	1	.167	1	1.15	—	—	—	30	70	—	81.7
1303			3	.167	.50		—	—	—	30	71	<1.0	—

→ Sample

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1254	VW-7A	VW-7A	31759	-30.0	-4.0
1245	VW-7A	QCFB	35659	-30.0	-2.5

Comments Leak Test ✓ ok

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San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway
Project Number: SC0233
Phase Number: 14-01
Date: 4/10/2008 Weather: Sunny
Field Personnel: C. Gale & S. Aadnes
Tracer Gas: He

Probe # VW - 7B
PID Model # N.A
PID Serial # N.A
Landtech GEM 2000 Landfill Gas Meter Serial # N.A
Helium detector (model and serial number) N.A
Air Temperature 77° Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	N.A	Time	N.A	Initial Pressure/Vacuum (prior to pumping)	14	Time	1524

Subsurface type ☒ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: 6 " in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1525	1525	—	—	.200	—	>100	—	—	—	—	—	—	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments: Pumped for 15 Seconds.

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858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/22/08 Weather: sunny
Field Personnel: D.S. / SM
Tracer Gas: He

Probe # VW-8A
PID Model # NA
PID Serial # NA
Landtech GEM 2000 Landfill Gas Meter Serial # GM 005584
Helium detector (model and serial number) PICOLECTRIC R 6132
Air Temperature NA Atm. Pressure NA (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	NA	Time	NA	Initial Pressure/Vacuum (prior to pumping)	1.5 ~~11:05~~	Time	11.05 ~~1.5~~

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	NA ~~0.5~~	
	1	

Subsurface type ☐ Asphalt ☑ Concrete ☐ Grass ☐ Other
Surface thickness: 6" inch/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
11:06	11:12	6	3	0.167	2	1	NA	NA	NA	40	65	NA	NA
~~11:16~~													

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
*	*	*	*	*	*

Comments * 100mL H_2O in Tedlar no sample collected *

SOIL GAS PROBE MEASUREMENTS

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San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/22/08 Weather: SUNNY
Field Personnel: D.S. S.M
Tracer Gas: He

Probe # VW-8B
PID Model # NA
PID Serial # NA
Landtech GEM 2000 Landfill Gas Meter Serial # GM 005594
Helium detector (model and serial number) DIELECTRIC R6132
Air Temperature NA Atm. Pressure NA (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	NA	Time	NA	Initial Pressure/Vacuum (prior to pumping)	0	Time	10:47

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6 (in)/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	NA 0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
10:48	10:49	1	NA	0.107	—	>100	NA	NA	NA	—	—	—	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
*	*	*	*	*	*

Comments
WELL HEAD VACUUM >100" H_2O ∴ NO SAMPLE COLLECTED WATER IN LINE!

SOIL GAS PROBE MEASUREMENTS

Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway
Project Number: SC0233
Phase Number: 14-01
Date: 4/10/2008 Weather: Sunny
Field Personnel: C. Gale & S. Aadnes
Tracer Gas: He

Probe # VW-9
PID Model # N. A
PID Serial # N. A
Landtech GEM 2000 Landfill Gas Meter Serial # N. A
Helium detector (model and serial number) N. A
Air Temperature 77° Atm. Pressure _____ (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	N. A	Time	N. A	Initial Pressure/Vacuum (prior to pumping)	0 ~~1423~~ 2m	Time	1423

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6 " in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_20)
	0.2	
	0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
1424	1427	3	–	.200	–	>100	–	–	–	–	–	–	–

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)

Comments: Pumped for 3 minutes

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Geosyntec consultants
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10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/22/08 Weather: Sunny 74
Field Personnel: S. Aadnes, C. Gale
Tracer Gas: He

Probe # VW-10 Lamp: 10.6 / 11.7 eV
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # 07948/05
Helium detector (model and serial number) Dielectric 29587
Air Temperature 74 Atm. Pressure — (in Hg)

Field tubing blank (ppmv)	0	Time	0958	Initial Pressure/Vacuum (prior to pumping)	0	Time	0959

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.25	
	0.5	
	1	

Subsurface type ☒ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID~~ (ppmv) Balance
1000	1008	8	3	.167	1	.06	0	4.8	16.2	30	66	<1.0	79.0 → ~~Sample~~ Sample
1009	1016	7	1	.167	1	.095	—	—	—	30	72	—	— → Sample
1016	1020	4	3	.167	.50	.06	—	—	—	30	81	<1.0	—

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
1009	VW-10	VW-10	SC66	-29.5	4.0

Comments Leak Test ✓ ok.

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Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/22/08 Weather: Sunny 74
Field Personnel: S. Azdues, C. Gale
Tracer Gas: He

Probe # VW-11
PID Model # —
PID Serial # —
Landtech GEM 2000 Landfill Gas Meter Serial # 0794805
Helium detector (model and serial number) Dielectric R9587
Air Temperature 74 Atm. Pressure — (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	0	Time	0858	Initial Pressure/Vacuum (prior to pumping)	0	Time	0859

Start of Pneumatic Testing :

Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0	
	0.5	

Subsurface type ☒ Asphalt ☐ Concrete ☐ Grass ☐ Other
Surface thickness: _____ in/cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	~~VOCs by PID~~ (ppmv) Balance
0900	0911	11	3	.167	1	75.0	0.	4.1	15.5	30	81	<1.0	80.4
0912	0930	18	1	.167	.1	70.0	—	—	—	30	76	—	—
0931	0940	9	3	.167	.50	68.0	—	—	—	30	70	<1.0	—

Sample

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
0912	VW-11	VW-11	12029	29.0	3.0

Comments Leak Test ✓ ok. Vacuum increased since last sampling event.

SOIL GAS PROBE MEASUREMENTS

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10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/22/08 Weather: SUNNY
Field Personnel: DS / SM
Tracer Gas: He

Probe # VW-12
PID Model # NA
PID Serial # NA
Lamp: 10.6 / 11.7 eV
Landtech GEM 2000 Landfill Gas Meter Serial # GM00584
Helium detector (model and serial number) DIELECTRIC R6132
Air Temperature NA Atm. Pressure NA (in Hg)

Field tubing blank (ppmv)	NA	Time	NA	Initial Pressure/Vacuum (prior to pumping)	0 ~~9:51~~	Time	9:51

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	NA 0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" cm ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
9:52	9:58	6	3	0.167	1	0	0	2	18.6	~~7~~ 40	70	<1	NA
10:09	10:12	3	3	0.167	0.5	0	NA	NA	NA	40	80	<1	NA

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
10:00	VW-12	VW-12	21019	30	-4.5
10:00	VW-12	VW-12C	93102	30	-4.5

Comments
BALANCE - 79.4%.

SOIL GAS PROBE MEASUREMENTS

Geosyntec consultants
engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/22/08 Weather: Sunny
Field Personnel: D.S. S.M
Tracer Gas: He

Probe # VW-13
PID Model # NA
PID Serial # NA
Landtech GEM 2000 Landfill Gas Meter Serial # GM005584
Helium detector (model and serial number) DIELECTRIC R6132
Air Temperature NA Atm. Pressure NA (in Hg)
Lamp: 10.6 / 11.7 eV

Field tubing blank (ppmv)	NA	Time	NA	Initial Pressure/Vacuum (prior to pumping)	8:10 0	Time	8:10

Subsurface type	☐ Asphalt	☒ Concrete	☐ Grass	☐ Other
Surface thickness:	6" in/cm	☐ unknown		
(ie. asphalt of concrete surface)				

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	NA 0.5	
	1	

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	max	Sample	VOCs by PID (ppmv)
8:12	8:18	6	3	0.167	1	2	0	2.1	17.2	30	80	<1	NA
8:32	8:35	3	3	0.107	0.3	2	NA	NA	NA	30	7	<6.5	NA

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
8:20	VW-13	VW-13	SC 48	30	5.5

Comments BAL - 80.7

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engineers | scientists | innovators
10875 Ranch Bernardo Road, Suite 200
San Diego, Ca. 92127
858.674.6559 fax 858.674.6586

Project Name: Poway Landfill
Project Number: SC0230
Phase Number: 14-01
Date: 4/22/08 Weather: Sunny
Field Personnel: D.S. S.M.
Tracer Gas: He

Probe # VW-14
PID Model # NA
PID Serial # NA
Lamp: 10.6 / 11.7 eV
Landtech GEM 2000 Landfill Gas Meter Serial # GM 00 5584
Helium detector (model and serial number) DIELECTRIC R6132
Air Temperature NA Atm. Pressure NA (in Hg)

Field tubing blank (ppmv)	NA	Time	NA	Initial Pressure/Vacuum (prior to pumping)	0	Time	8:57

Start of Pneumatic Testing :		
Elapsed Time (min.)	Flow Rate (LPM)	Well Head Vacuum (in H_2O)
	0.2	
	NA 0.5	
	1	

Subsurface type ☐ Asphalt ☒ Concrete ☐ Grass ☐ Other
Surface thickness: 6" (in/cm) ☐ unknown
(ie. asphalt of concrete surface)

1 Casing Volume
☐ Sub-slab <0.1 L
Soil gas probe (L)

Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	Total Vol (L)	Well Head Vacuum (in H_2O)	CH4 (%)	CO2 (%)	O2 (%)	Tracer Gas (%) min	Tracer Gas (%) max	Tracer Gas (%) Sample	VOCs by PID (ppmv)
8:58	9:04	6	3	0.167	1	2	0.0	4.9	14.5	30	77	<1	NA
9:14	9:17	3	3	0.167	0.5	2	NA	NA	NA	30	80	<1	NA

Time	Location	Sample ID	Summa Canister ID	Initial Vacuum (in Hg)	Final Vacuum (in Hg)
9:07	VW-14	VW-14	9494	30	-6

Comments
Balance 80.6 %

ATTACHMENT B

Laboratory Analytical Certificates

Geosyntec consultants

Data Validation – Poway Landfill
13-14 May 2008

Level II data packages were received in the Geosyntec-San Diego, Ca office in April 2008, for data validation. The data were received from Air Toxics Ltd., Folsom, California. The following documents were referenced with regard to performing this data validation; USEPA National Functional Guidelines for Organic Data Review, as well as the pertinent Methods referenced by the data package. The data review process provides information on the analytical limitations of data based on specified quality control (QC) criteria. The data are discussed by Work Order number and analytical test as follows:

WO# 0804496

Results were reported for the following samples:

Client ID	Laboratory ID
PVP-5	0804496-01A
PVP-5 Duplicate	0804496-01AA
PVP-4A	0804496-02A
PVP-4C	0804496-03A
VW-1A	0804496-04A
VW-3A	0804496-05A
PVP-6	0804496-06A
PVP-1A	0804496-07A
PVP-2A	0804496-08A
VW-4A	0804496-09A
QCTB	0804496-10A
VW-5A	0804496-11A
QCFB	0804496-12A

Matrix: Gaseous

All regulatory and technical holding times were met.

EPA Method TO-15 (Modified) – Volatile Organic Compounds

Duplicate results for sample PVP-5 and its associated lab duplicate were outside of the acceptable range for relative percent difference (RPD) for acetone (85%) and ethanol (non-detect in lab duplicate). Results for these compounds in PVP-5 are "J" qualified as estimated. Positive results for 1,2-dichlorobenzene detected in sample PVP-4A were not detected in field duplicate PVP-4C. Results for this compound in PVP-4A are "J" qualified as estimated.

Positive results were detected in the trip blank (QCTB) and field blank (QCFB). Due to this, elevated reporting limits were reported for the following constituents: ethanol (PVP-5 and PVP-

6); acetone (PVP-5, PVP-4A, PVP-4C, VW-1A, VW-3A, PVP-6, PVP-1A, PVP-2A, VW-4A, and VW-5A); 2-butanone (PVP-4A, PVP-4C, VW-1A, VW-3A, PVP-6, PVP-1A, PVP-2A, VW-4A, and VW-5A); benzene (PVP-6 and VW-5A); heptane (PVP-6); toluene (VW-1A and PVP-6), ethylbenzene (VW-1A and VW-4A); m,p-xylene (VW-1A, PVP-6 and VW-5A); o-xylene (VW-1A, PVP-6 and VW-5A); 4-ethyltoluene (VW-1A and PVP-6); and 1,2,4-trimethylbenzene (PVP-6).

Ethanol exceeded recovery limits in the laboratory control spike (LCS). The following qualifiers were applied to the data:

Sample	Result (ppbv)	Qualifier
PVP-5	15	J
PVP-4A	ND	R
PVP-4C	ND	R
VW-1A	ND	R
VW-3A	ND	R
PVP-6	40	J

J - Approximate concentration
R – Rejected because presence or absence cannot be verified
ND - Non-detect

No tentatively Identified Compounds (vinyl acetate, trans-1,4-dichloro-2-butene and iodomethane) were detected in the samples.

WO# 0804514

Results were reported for the following samples:

Client ID	Laboratory ID
VW-13	0804514-01A
VW-14	0804514-02A
VW-12	0804514-03A
VW-12C	0804514-04A
VW-10	0804514-05A
VW-11	0804514-06A
VW-7A	0804514-07A
QCFB	0804514-08A
QCTB	0804514-09A

Matrix: Gaseous

All regulatory and technical holding times were met.

EPA Method TO-15 (Modified) – Volatile Organic Compounds

The following constituents detected in VW-12C were not detected in its associated field duplicate: freon 12, ethanol, freon 113, and tetrachloroethene. Results for these compounds in VW-12C are "J" qualified as estimated.

Positive results were detected in the field blank (QCFB). Due to this, elevated reporting limits were reported for the following constituents: ethanol (VW-13, VW-14, VW-12C, VW-10, and VW-11); acetone (VW-10 and VW-11); and 2-butanone (VW-14, VW-11, and VW-7A).

No Tentatively Identified Compounds (vinyl acetate, trans-1,4-dichloro-2-butene and iodomethane) were detected in the samples.

Summary

The data packages were reviewed. Based on the information provided, all of the results are acceptable for use as qualified with the exception of ethanol in PVP-4A, PVP-4C, VW-1A, and VW-3A.

Reviewer: Shana McCarthy
Geosyntec Consultants
14 May 2008

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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Hours 8:00 A.M to 6:00 P.M. Pacific

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0804496

Work Order Summary

CLIENT:	Mr. Chris Gale GeoSyntec Consultants 10875 Rancho Bernardo Road Suite 200 San Diego, CA 92127	**BILL TO:**	Mr. Chris Gale GeoSyntec Consultants 10875 Rancho Bernardo Road Suite 200 San Diego, CA 92127
PHONE:	858-674-6559	**P.O. #**	
FAX:	858-674-6586	**PROJECT #**	SL-0233-14-01 Poway
DATE RECEIVED:	04/22/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/28/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	PVP-5	Modified TO-15/TICs	3.0 "Hg	15 psi
01AA	PVP-5 Lab Duplicate	Modified TO-15/TICs	3.0 "Hg	15 psi
02A	PVP-4A	Modified TO-15/TICs	5.5 "Hg	15 psi
03A	PVP-4C	Modified TO-15/TICs	5.0 "Hg	15 psi
04A	VW-1A	Modified TO-15/TICs	6.0 "Hg	15 psi
05A	VW-3A	Modified TO-15/TICs	4.5 "Hg	15 psi
06A	PVP-6	Modified TO-15/TICs	5.0 "Hg	15 psi
07A	PVP-1A	Modified TO-15/TICs	5.0 "Hg	15 psi
08A	PVP-2A	Modified TO-15/TICs	4.5 "Hg	15 psi
09A	VW-4A	Modified TO-15/TICs	4.5 "Hg	15 psi
10A	QCTB	Modified TO-15/TICs	0.0 "Hg	15 psi
11A	VW-5A	Modified TO-15/TICs	4.0 "Hg	15 psi
12A	QCFB	Modified TO-15/TICs	2.5 "Hg	15 psi
13A	Lab Blank	Modified TO-15/TICs	NA	NA
13B	Lab Blank	Modified TO-15/TICs	NA	NA
14A	CCV	Modified TO-15/TICs	NA	NA
14B	CCV	Modified TO-15/TICs	NA	NA

Continued on next page

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0804496

Work Order Summary

CLIENT:	Mr. Chris Gale GeoSyntec Consultants 10875 Rancho Bernardo Road Suite 200 San Diego, CA 92127	**BILL TO:**	Mr. Chris Gale GeoSyntec Consultants 10875 Rancho Bernardo Road Suite 200 San Diego, CA 92127
PHONE:	858-674-6559	**P.O. #**	
FAX:	858-674-6586	**PROJECT #**	SL-0233-14-01 Poway
DATE RECEIVED:	04/22/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/28/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
15A	LCS	Modified TO-15/TICs	NA	NA
15B	LCS	Modified TO-15/TICs	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 04/28/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
GeoSyntec Consultants
Workorder# 0804496

Twelve 1 Liter Summa Canister (100% Certified) samples were received on April 22, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: PVP-5

Lab ID#: 0804496-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.5	8.1	8.4	15
Acetone	4.5	4.5	11	11

Client Sample ID: PVP-5 Lab Duplicate

Lab ID#: 0804496-01AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.5	20	8.4	37

Client Sample ID: PVP-4A

Lab ID#: 0804496-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	27	6.1	130
Freon 114	1.2	1.4	8.6	9.5
Acetone	4.9	12	12	29
2-Butanone (Methyl Ethyl Ketone)	1.2	4.1	3.6	12
Chloroform	1.2	1.9	6.0	9.5
Tetrachloroethene	1.2	1.9	8.4	13
1,2-Dichlorobenzene	1.2	1.9	7.4	11

Client Sample ID: PVP-4C

Lab ID#: 0804496-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	25	6.0	120
Freon 114	1.2	1.6	8.4	11
Freon 11	1.2	1.4	6.8	7.6
Acetone	4.8	13	11	30
2-Butanone (Methyl Ethyl Ketone)	1.2	3.5	3.6	10
Chloroform	1.2	2.1	5.9	10
Tetrachloroethene	1.2	1.8	8.2	12

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VW-1A

Lab ID#: 0804496-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	5.1	15	12	35
2-Butanone (Methyl Ethyl Ketone)	1.3	2.7	3.7	8.0
Chloroform	1.3	1.3	6.2	6.2
Toluene	1.3	5.2	4.8	20
Ethyl Benzene	1.3	1.6	5.5	7.0
m,p-Xylene	1.3	5.4	5.5	23
o-Xylene	1.3	2.3	5.5	10
4-Ethyltoluene	1.3	1.3	6.2	6.5

Client Sample ID: VW-3A

Lab ID#: 0804496-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	1.5	5.9	7.4
Acetone	4.8	4.7 J	11	11
2-Butanone (Methyl Ethyl Ketone)	1.2	3.0	3.5	9.0

Client Sample ID: PVP-6

Lab ID#: 0804496-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.8	21	9.1	40
Acetone	4.8	14	11	34
2-Butanone (Methyl Ethyl Ketone)	1.2	3.3	3.6	9.8
2,2,4-Trimethylpentane	1.2	1.4	5.6	6.8
Benzene	1.2	1.7	3.9	5.6
Heptane	1.2	1.3	5.0	5.3
Toluene	1.2	3.4	4.6	13
m,p-Xylene	1.2	6.1	5.2	27
o-Xylene	1.2	2.4	5.2	10
4-Ethyltoluene	1.2	2.1	5.9	10
1,3,5-Trimethylbenzene	1.2	1.4	5.9	6.8
1,2,4-Trimethylbenzene	1.2	2.8	5.9	14

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: PVP-1A

Lab ID#: 0804496-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	50	6.0	250
Freon 114	1.2	9.0	8.4	63
Freon 113	1.2	35	9.3	260
Acetone	4.8	7.8	11	18
2-Butanone (Methyl Ethyl Ketone)	1.2	2.5	3.6	7.5
Chloroform	1.2	2.2	5.9	10
Tetrachloroethene	1.2	1.5	8.2	10

Client Sample ID: PVP-2A

Lab ID#: 0804496-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	82	5.9	410
Freon 114	1.2	7.7	8.3	54
Freon 113	1.2	230	9.1	1800
Acetone	4.8	8.8	11	21
Carbon Disulfide	1.2	5.8	3.7	18
2-Butanone (Methyl Ethyl Ketone)	1.2	4.6	3.5	13
Tetrachloroethene	1.2	1.8	8.1	12

Client Sample ID: VW-4A

Lab ID#: 0804496-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	2.6	5.9	13
Acetone	4.8	4.7 J	11	11
2-Butanone (Methyl Ethyl Ketone)	1.2	2.3	3.5	6.7
Heptane	1.2	4.6	4.9	19
Toluene	1.2	9.5	4.5	36
Tetrachloroethene	1.2	36	8.1	240
Ethyl Benzene	1.2	9.2	5.2	40
m,p-Xylene	1.2	36	5.2	160
o-Xylene	1.2	18	5.2	76
Cumene	1.2	2.7	5.8	13
Propylbenzene	1.2	4.2	5.8	21
4-Ethyltoluene	1.2	14	5.8	68

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VW-4A

Lab ID#: 0804496-09A

1,3,5-Trimethylbenzene	1.2	6.7	5.8	33
1,2,4-Trimethylbenzene	1.2	20	5.8	97

Client Sample ID: QCTB

Lab ID#: 0804496-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.0	6.7	7.6	12
Acetone	4.0	13	9.6	30
2-Propanol	4.0	4.2	9.9	10
Methylene Chloride	1.0	2.2	3.5	7.6
Hexane	1.0	3.0	3.6	11
2-Butanone (Methyl Ethyl Ketone)	1.0	4.3	3.0	13
Cyclohexane	1.0	2.9	3.5	10
Benzene	1.0	1.3	3.2	4.2
Heptane	1.0	1.2	4.1	5.1
Toluene	1.0	18	3.8	68
Ethyl Benzene	1.0	1.6	4.4	7.2
m,p-Xylene	1.0	4.1	4.4	18
o-Xylene	1.0	1.5	4.4	6.6
4-Ethyltoluene	1.0	1.1	5.0	5.4
1,2,4-Trimethylbenzene	1.0	1.2	5.0	6.1

Client Sample ID: VW-5A

Lab ID#: 0804496-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	5.4	5.8	26
Freon 114	1.2	1.2	8.1	8.6
Freon 113	1.2	5.7	8.9	44
Acetone	4.7	50	11	120
2-Butanone (Methyl Ethyl Ketone)	1.2	5.4	3.4	16
2,2,4-Trimethylpentane	1.2	18	5.4	85
Benzene	1.2	1.2	3.7	3.8
Toluene	1.2	57	4.4	210
Tetrachloroethene	1.2	10	7.9	68
m,p-Xylene	1.2	6.5	5.0	28
o-Xylene	1.2	2.0	5.0	8.6

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: QCFB

Lab ID#: 0804496-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Acetone	4.4	5.8	10	14
2-Butanone (Methyl Ethyl Ketone)	1.1	1.1	3.2	3.3
Toluene	1.1	1.7	4.1	6.6
m,p-Xylene	1.1	1.1	4.8	4.9

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-5

Lab ID#: 0804496-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042320**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.24**	**Date of Analysis:**	**4/23/08 10:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	8.1	8.4	15
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	4.5	11	11
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-5

Lab ID#: 0804496-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042320**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.24**	**Date of Analysis:**	**4/23/08 10:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	128	70-130
4-Bromofluorobenzene	88	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-5 Lab Duplicate

Lab ID#: 0804496-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042321**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.24**	**Date of Analysis:**	**4/23/08 11:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	20	8.4	37
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	Not Detected	11	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-5 Lab Duplicate

Lab ID#: 0804496-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042321**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.24**	**Date of Analysis:**	**4/23/08 11:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	124	70-130
4-Bromofluorobenzene	91	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-4A

Lab ID#: 0804496-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042322**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.47**	**Date of Analysis:**	**4/23/08 11:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	27	6.1	130
Freon 114	1.2	1.4	8.6	9.5
Chloromethane	4.9	Not Detected	10	Not Detected
Vinyl Chloride	1.2	Not Detected	3.2	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	1.2	Not Detected	4.8	Not Detected
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	6.9	Not Detected
Ethanol	4.9	Not Detected	9.3	Not Detected
Freon 113	1.2	Not Detected	9.5	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Acetone	4.9	12	12	29
2-Propanol	4.9	Not Detected	12	Not Detected
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
3-Chloropropene	4.9	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.3	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Hexane	1.2	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.2	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	4.1	3.6	12
cis-1,2-Dichloroethene	1.2	Not Detected	4.9	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	1.9	6.0	9.5
1,1,1-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.8	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.8	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	5.0	Not Detected
Heptane	1.2	Not Detected	5.1	Not Detected
Trichloroethene	1.2	Not Detected	6.6	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.7	Not Detected
1,4-Dioxane	4.9	Not Detected	18	Not Detected
Bromodichloromethane	1.2	Not Detected	8.3	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.6	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-4A

Lab ID#: 0804496-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042322**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.47**	**Date of Analysis:**	**4/23/08 11:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.7	Not Detected
Tetrachloroethene	1.2	1.9	8.4	13
2-Hexanone	4.9	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.5	Not Detected
Chlorobenzene	1.2	Not Detected	5.7	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected
Styrene	1.2	Not Detected	5.3	Not Detected
Bromoform	1.2	Not Detected	13	Not Detected
Cumene	1.2	Not Detected	6.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.5	Not Detected
Propylbenzene	1.2	Not Detected	6.1	Not Detected
4-Ethyltoluene	1.2	Not Detected	6.1	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	6.1	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.4	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.4	Not Detected
1,2-Dichlorobenzene	1.2	1.9	7.4	11
1,2,4-Trichlorobenzene	4.9	Not Detected	37	Not Detected
Hexachlorobutadiene	4.9	Not Detected	53	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	114	70-130
1,2-Dichloroethane-d4	125	70-130
4-Bromofluorobenzene	90	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-4C

Lab ID#: 0804496-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042323**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/24/08 12:25 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	25	6.0	120
Freon 114	1.2	1.6	8.4	11
Chloromethane	4.8	Not Detected	10	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	1.2	Not Detected	4.7	Not Detected
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	1.4	6.8	7.6
Ethanol	4.8	Not Detected	9.1	Not Detected
Freon 113	1.2	Not Detected	9.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	4.8	13	11	30
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.2	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	3.5	3.6	10
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	2.1	5.9	10
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-4C

Lab ID#: 0804496-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042323**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/24/08 12:25 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	1.8	8.2	12
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	110	70-130
1,2-Dichloroethane-d4	124	70-130
4-Bromofluorobenzene	89	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-1A

Lab ID#: 0804496-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042324**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.53**	**Date of Analysis:**	**4/24/08 12:58 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.3	Not Detected	6.2	Not Detected
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	5.1	Not Detected	10	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	1.3	Not Detected	4.9	Not Detected
Chloroethane	1.3	Not Detected	3.3	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Ethanol	5.1	Not Detected	9.5	Not Detected
Freon 113	1.3	Not Detected	9.7	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	5.1	15	12	35
2-Propanol	5.1	Not Detected	12	Not Detected
Carbon Disulfide	1.3	Not Detected	3.9	Not Detected
3-Chloropropene	5.1	Not Detected	16	Not Detected
Methylene Chloride	1.3	Not Detected	4.4	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.3	2.7	3.7	8.0
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Chloroform	1.3	1.3	6.2	6.2
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Cyclohexane	1.3	Not Detected	4.4	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.0	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	5.9	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.1	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.5	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	5.2	4.8	20
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-1A

Lab ID#: 0804496-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042324**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.53**	**Date of Analysis:**	**4/24/08 12:58 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	Not Detected	8.6	Not Detected
2-Hexanone	5.1	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	1.6	5.5	7.0
m,p-Xylene	1.3	5.4	5.5	23
o-Xylene	1.3	2.3	5.5	10
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.7	Not Detected
Propylbenzene	1.3	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.3	1.3	6.2	6.5
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected
Hexachlorobutadiene	5.1	Not Detected	54	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	124	70-130
4-Bromofluorobenzene	91	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-3A

Lab ID#: 0804496-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042325**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.38**	**Date of Analysis:**	**4/24/08 01:31 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	1.5	5.9	7.4
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	4.8	Not Detected	9.8	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.6	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	4.8	4.7 J	11	11
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	1.2	Not Detected	3.7	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.1	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	3.0	3.5	9.0
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-3A

Lab ID#: 0804496-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042325**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.38**	**Date of Analysis:**	**4/24/08 01:31 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	Not Detected	8.1	Not Detected
2-Hexanone	4.8	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	111	70-130
1,2-Dichloroethane-d4	123	70-130
4-Bromofluorobenzene	93	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-6

Lab ID#: 0804496-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042326**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/24/08 02:03 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	4.8	Not Detected	10	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	1.2	Not Detected	4.7	Not Detected
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Ethanol	4.8	21	9.1	40
Freon 113	1.2	Not Detected	9.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	4.8	14	11	34
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.2	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	3.3	3.6	9.8
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	1.4	5.6	6.8
Benzene	1.2	1.7	3.9	5.6
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	1.3	5.0	5.3
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	3.4	4.6	13
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-6

Lab ID#: 0804496-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042326**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/24/08 02:03 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	6.1	5.2	27
o-Xylene	1.2	2.4	5.2	10
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	2.1	5.9	10
1,3,5-Trimethylbenzene	1.2	1.4	5.9	6.8
1,2,4-Trimethylbenzene	1.2	2.8	5.9	14
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	111	70-130
1,2-Dichloroethane-d4	120	70-130
4-Bromofluorobenzene	92	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-1A

Lab ID#: 0804496-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042406**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/24/08 10:15 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	50	6.0	250
Freon 114	1.2	9.0	8.4	63
Chloromethane	4.8	Not Detected	10	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	1.2	Not Detected	4.7	Not Detected
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
Freon 113	1.2	35	9.3	260
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	4.8	7.8	11	18
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.2	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	2.5	3.6	7.5
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	2.2	5.9	10
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-1A

Lab ID#: 0804496-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042406**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/24/08 10:15 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	1.5	8.2	10
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	117	70-130
4-Bromofluorobenzene	100	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-2A

Lab ID#: 0804496-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042407**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.38**	**Date of Analysis:**	**4/24/08 10:54 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	82	5.9	410
Freon 114	1.2	7.7	8.3	54
Chloromethane	4.8	Not Detected	9.8	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.6	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
Freon 113	1.2	230	9.1	1800
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	4.8	8.8	11	21
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	1.2	5.8	3.7	18
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.1	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	4.6	3.5	13
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	Not Detected	4.9	Not Detected
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: PVP-2A

Lab ID#: 0804496-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042407**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.38**	**Date of Analysis:**	**4/24/08 10:54 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	1.8	8.1	12
2-Hexanone	4.8	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.8	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	Not Detected	5.8	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.8	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	101	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-4A

Lab ID#: 0804496-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042408**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.38**	**Date of Analysis:**	**4/24/08 11:33 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	2.6	5.9	13
Freon 114	1.2	Not Detected	8.3	Not Detected
Chloromethane	4.8	Not Detected	9.8	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.6	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Ethanol	4.8	Not Detected	9.0	Not Detected
Freon 113	1.2	Not Detected	9.1	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Acetone	4.8	4.7 J	11	11
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	1.2	Not Detected	3.7	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.1	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Hexane	1.2	Not Detected	4.2	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	2.3	3.5	6.7
cis-1,2-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.5	Not Detected
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Cyclohexane	1.2	Not Detected	4.1	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Heptane	1.2	4.6	4.9	19
Trichloroethene	1.2	Not Detected	6.4	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.0	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.9	Not Detected
Toluene	1.2	9.5	4.5	36
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-4A

Lab ID#: 0804496-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042408**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.38**	**Date of Analysis:**	**4/24/08 11:33 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	36	8.1	240
2-Hexanone	4.8	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.1	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	9.2	5.2	40
m,p-Xylene	1.2	36	5.2	160
o-Xylene	1.2	18	5.2	76
Styrene	1.2	Not Detected	5.1	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	2.7	5.8	13
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
Propylbenzene	1.2	4.2	5.8	21
4-Ethyltoluene	1.2	14	5.8	68
1,3,5-Trimethylbenzene	1.2	6.7	5.8	33
1,2,4-Trimethylbenzene	1.2	20	5.8	97
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	117	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCTB

Lab ID#: 0804496-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042409**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.02**	**Date of Analysis:**	**4/24/08 12:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.0	Not Detected	5.0	Not Detected
Freon 114	1.0	Not Detected	7.1	Not Detected
Chloromethane	4.0	Not Detected	8.3	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
1,3-Butadiene	1.0	Not Detected	2.2	Not Detected
Bromomethane	1.0	Not Detected	3.9	Not Detected
Chloroethane	1.0	Not Detected	2.7	Not Detected
Freon 11	1.0	Not Detected	5.7	Not Detected
Ethanol	4.0	6.7	7.6	12
Freon 113	1.0	Not Detected	7.7	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Acetone	4.0	13	9.6	30
2-Propanol	4.0	4.2	9.9	10
Carbon Disulfide	1.0	Not Detected	3.1	Not Detected
3-Chloropropene	4.0	Not Detected	13	Not Detected
Methylene Chloride	1.0	2.2	3.5	7.6
Methyl tert-butyl ether	1.0	Not Detected	3.6	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Hexane	1.0	3.0	3.6	11
1,1-Dichloroethane	1.0	Not Detected	4.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.0	4.3	3.0	13
cis-1,2-Dichloroethene	1.0	Not Detected	4.0	Not Detected
Tetrahydrofuran	1.0	Not Detected	3.0	Not Detected
Chloroform	1.0	Not Detected	4.9	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Cyclohexane	1.0	2.9	3.5	10
Carbon Tetrachloride	1.0	Not Detected	6.4	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.7	Not Detected
Benzene	1.0	1.3	3.2	4.2
1,2-Dichloroethane	1.0	Not Detected	4.1	Not Detected
Heptane	1.0	1.2	4.1	5.1
Trichloroethene	1.0	Not Detected	5.4	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.7	Not Detected
1,4-Dioxane	4.0	Not Detected	14	Not Detected
Bromodichloromethane	1.0	Not Detected	6.8	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.1	Not Detected
Toluene	1.0	18	3.8	68
trans-1,3-Dichloropropene	1.0	Not Detected	4.6	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCTB

Lab ID#: 0804496-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042409**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.02**	**Date of Analysis:**	**4/24/08 12:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.0	Not Detected	5.5	Not Detected
Tetrachloroethene	1.0	Not Detected	6.8	Not Detected
2-Hexanone	4.0	Not Detected	16	Not Detected
Dibromochloromethane	1.0	Not Detected	8.6	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.8	Not Detected
Chlorobenzene	1.0	Not Detected	4.6	Not Detected
Ethyl Benzene	1.0	1.6	4.4	7.2
m,p-Xylene	1.0	4.1	4.4	18
o-Xylene	1.0	1.5	4.4	6.6
Styrene	1.0	Not Detected	4.3	Not Detected
Bromoform	1.0	Not Detected	10	Not Detected
Cumene	1.0	Not Detected	5.0	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	6.9	Not Detected
Propylbenzene	1.0	Not Detected	5.0	Not Detected
4-Ethyltoluene	1.0	1.1	5.0	5.4
1,3,5-Trimethylbenzene	1.0	Not Detected	5.0	Not Detected
1,2,4-Trimethylbenzene	1.0	1.2	5.0	6.1
1,3-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.2	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.1	Not Detected
1,2,4-Trichlorobenzene	4.0	Not Detected	30	Not Detected
Hexachlorobutadiene	4.0	Not Detected	43	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	102	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-5A

Lab ID#: 0804496-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042410**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.33**	**Date of Analysis:**	**4/24/08 12:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	5.4	5.8	26
Freon 114	1.2	1.2	8.1	8.6
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	Not Detected	8.8	Not Detected
Freon 113	1.2	5.7	8.9	44
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	50	11	120
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	1.2	Not Detected	3.6	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	5.4	3.4	16
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	18	5.4	85
Benzene	1.2	1.2	3.7	3.8
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	57	4.4	210
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-5A

Lab ID#: 0804496-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042410**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.33**	**Date of Analysis:**	**4/24/08 12:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	10	7.9	68
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	6.5	5.0	28
o-Xylene	1.2	2.0	5.0	8.6
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	98	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCFB

Lab ID#: 0804496-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042411**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.20**	**Date of Analysis:**	**4/24/08 01:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	4.4	Not Detected	9.1	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	Not Detected	8.3	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	5.8	10	14
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	1.1	3.2	3.3
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	1.7	4.1	6.6
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCFB

Lab ID#: 0804496-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042411**	**Date of Collection:**	**4/21/08**
Dil. Factor:	**2.20**	**Date of Analysis:**	**4/24/08 01:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	Not Detected	7.5	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	1.1	4.8	4.9
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804496-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/08 11:30 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804496-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/08 11:30 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	109	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	91	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804496-13B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 09:31 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804496-13B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 09:31 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	101	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804496-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042303**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/08 08:56 AM**

Compound	%Recovery
Freon 12	104
Freon 114	103
Chloromethane	89
Vinyl Chloride	94
1,3-Butadiene	82
Bromomethane	107
Chloroethane	97
Freon 11	104
Ethanol	79
Freon 113	98
1,1-Dichloroethene	93
Acetone	80
2-Propanol	77
Carbon Disulfide	95
3-Chloropropene	91
Methylene Chloride	88
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	89
Hexane	83
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	92
Tetrahydrofuran	78
Chloroform	92
1,1,1-Trichloroethane	105
Cyclohexane	87
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	92
Benzene	91
1,2-Dichloroethane	129
Heptane	92
Trichloroethene	105
1,2-Dichloropropane	101
1,4-Dioxane	97
Bromodichloromethane	122
cis-1,3-Dichloropropene	114
4-Methyl-2-pentanone	107
Toluene	111
trans-1,3-Dichloropropene	115

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804496-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/08 08:56 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	99
Tetrachloroethene	99
2-Hexanone	94
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	104
Chlorobenzene	100
Ethyl Benzene	102
m,p-Xylene	102
o-Xylene	100
Styrene	91
Bromoform	112
Cumene	102
1,1,2,2-Tetrachloroethane	106
Propylbenzene	110
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	86
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	85

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	112	70-130
1,2-Dichloroethane-d4	122	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804496-14B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042402**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 07:35 AM**

Compound	%Recovery
Freon 12	106
Freon 114	106
Chloromethane	109
Vinyl Chloride	102
1,3-Butadiene	100
Bromomethane	104
Chloroethane	86
Freon 11	107
Ethanol	90
Freon 113	102
1,1-Dichloroethene	98
Acetone	85
2-Propanol	91
Carbon Disulfide	91
3-Chloropropene	86
Methylene Chloride	95
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	94
Hexane	91
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	106
Tetrahydrofuran	99
Chloroform	106
1,1,1-Trichloroethane	108
Cyclohexane	93
Carbon Tetrachloride	114
2,2,4-Trimethylpentane	101
Benzene	104
1,2-Dichloroethane	125
Heptane	108
Trichloroethene	107
1,2-Dichloropropane	109
1,4-Dioxane	106
Bromodichloromethane	119
cis-1,3-Dichloropropene	114
4-Methyl-2-pentanone	116
Toluene	103
trans-1,3-Dichloropropene	116

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804496-14B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 07:35 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	98
Tetrachloroethene	103
2-Hexanone	112
Dibromochloromethane	116
1,2-Dibromoethane (EDB)	111
Chlorobenzene	102
Ethyl Benzene	97
m,p-Xylene	97
o-Xylene	98
Styrene	100
Bromoform	122
Cumene	96
1,1,2,2-Tetrachloroethane	104
Propylbenzene	98
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	93
Hexachlorobutadiene	85

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	105	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804496-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/08 09:47 AM**	

Compound	%Recovery
Freon 12	105
Freon 114	93
Chloromethane	85
Vinyl Chloride	87
1,3-Butadiene	75
Bromomethane	96
Chloroethane	90
Freon 11	96
Ethanol	59 Q
Freon 113	98
1,1-Dichloroethene	98
Acetone	83
2-Propanol	68
Carbon Disulfide	89
3-Chloropropene	79
Methylene Chloride	87
Methyl tert-butyl ether	61
trans-1,2-Dichloroethene	82
Hexane	75
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	78
cis-1,2-Dichloroethene	86
Tetrahydrofuran	68
Chloroform	86
1,1,1-Trichloroethane	99
Cyclohexane	78
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	82
Benzene	78
1,2-Dichloroethane	113
Heptane	81
Trichloroethene	92
1,2-Dichloropropane	86
1,4-Dioxane	72
Bromodichloromethane	106
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	87
Toluene	99
trans-1,3-Dichloropropene	102

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804496-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/08 09:47 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	87
Tetrachloroethene	88
2-Hexanone	74
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	90
Chlorobenzene	87
Ethyl Benzene	89
m,p-Xylene	87
o-Xylene	88
Styrene	73
Bromoform	100
Cumene	93
1,1,2,2-Tetrachloroethane	94
Propylbenzene	98
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	80
1,3-Dichlorobenzene	82
1,4-Dichlorobenzene	84
alpha-Chlorotoluene	89
1,2-Dichlorobenzene	77
1,2,4-Trichlorobenzene	79
Hexachlorobutadiene	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	111	70-130
1,2-Dichloroethane-d4	127	70-130
4-Bromofluorobenzene	98	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804496-15B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 08:52 AM**	

Compound	%Recovery
Freon 12	95
Freon 114	98
Chloromethane	107
Vinyl Chloride	99
1,3-Butadiene	96
Bromomethane	102
Chloroethane	88
Freon 11	103
Ethanol	93
Freon 113	112
1,1-Dichloroethene	112
Acetone	88
2-Propanol	96
Carbon Disulfide	93
3-Chloropropene	91
Methylene Chloride	105
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	93
Hexane	96
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	108
Tetrahydrofuran	99
Chloroform	107
1,1,1-Trichloroethane	107
Cyclohexane	94
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	101
Benzene	104
1,2-Dichloroethane	121
Heptane	108
Trichloroethene	105
1,2-Dichloropropane	107
1,4-Dioxane	103
Bromodichloromethane	117
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	111
Toluene	107
trans-1,3-Dichloropropene	114

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804496-15B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7042404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 08:52 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	99
Tetrachloroethene	103
2-Hexanone	110
Dibromochloromethane	115
1,2-Dibromoethane (EDB)	107
Chlorobenzene	101
Ethyl Benzene	96
m,p-Xylene	96
o-Xylene	96
Styrene	101
Bromoform	122
Cumene	98
1,1,2,2-Tetrachloroethane	106
Propylbenzene	101
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	123
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	114
Hexachlorobutadiene	99

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	105	70-130

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: C. Gale
Collected by: (Print and Sign) D. Shippen, C. Gale
Company: GEOSYNTEC
Email: cgale@geosyntec.com
Address: 10875 Rancho Bernardo Rd Suite 200
City: SD
State: CA
Zip: 92127
Phone: 858-674-6558
Fax: 1-858-675-8675

Project Info:
P.O. #:
Project #: SL-0233-14-01
Project Name: Poway

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	PVP-5	9468	4/21/08	10:00	TO-15 + TIC	30	3		
02A	PVP-4A	20776	4/21/08	11:35		30	7		
03A	PVP-4C	54100	4/21/08	11:35		30	7		
04A	VW-1A	1142.9	4/21/08	13:16		30	7		
05A	VW-3A	1491	4/21/08	14:57		30	6		
06A	PVP-6	33645	4/21/08	0945		29.5	4.0		
07A	PVP-1A	12038	4/21/08	1042		30.0	3.5		
08A	PVP-2A	34623	4/21/08	1133		30.0	2.5		
09A	VW-4A	11437	4/21/08	1350		26.5	3.5		
10A	BLTB	9480	4/21/08	1500		N.A	N.A		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	4/21/08 16:00	Fedex # 8052 7095 6877	4/21/08 16:02
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		Monica Bergen ATL	4/22/08 8:22
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: See Kyle Vagadori for TICs

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	Yes No None	0804496

Form 1093 rev. 1

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: Chris Gale
Collected by: (Print and Sign) D. Skippon, C. Gale
Company: Geosyntec
Email:
Address: 10875 Rancho Bernardo Rd. Suite 200 City: San Diego State: CA Zip: 92127
Phone: 858-674-6559 Fax: 858-674-8675

Project Info:
P.O. #:
Project #: SI-0233-14-01
Project Name: Poway

Turn Around Time:
☒ Normal
☐ Rush:
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
HA	VW-5A	12378	4/21/08	1439	TO-15 + TIC	30.0	3.0		
12A	QCFB # 34122	~~#1350~~	4/21/08	1436	↓	25.5	1.5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
	4/21/08 16:02	Fedex	4/21/08 16:02
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
		Monica Gaggen	4/22/08
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: See Kyle Vaguchi for TICS

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	Yes No None	0804496

Form 1299 rev.11

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

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Hours 8:00 A.M to 6:00 P.M. Pacific

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0804514

Work Order Summary

CLIENT:	Mr. Chris Gale GeoSyntec Consultants 10875 Rancho Bernardo Road Suite 200 San Diego, CA 92127	**BILL TO:**	Mr. Chris Gale GeoSyntec Consultants 10875 Rancho Bernardo Road Suite 200 San Diego, CA 92127
PHONE:	858-674-6559	**P.O. #**	
FAX:	858-674-6586	**PROJECT #**	SC-0233-14-01 Poway
DATE RECEIVED:	04/23/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	04/30/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VW-13	Modified TO-15/TICs	3.0 "Hg	15 psi
02A	VW-14	Modified TO-15/TICs	4.0 "Hg	15 psi
03A	VW-12	Modified TO-15/TICs	2.5 "Hg	15 psi
04A	VW-12C	Modified TO-15/TICs	2.5 "Hg	15 psi
05A	VW-10	Modified TO-15/TICs	4.0 "Hg	15 psi
06A	VW-11	Modified TO-15/TICs	2.0 "Hg	15 psi
07A	VW-7A	Modified TO-15/TICs	5.0 "Hg	15 psi
08A	QCFB	Modified TO-15/TICs	3.5 "Hg	15 psi
09A	QCTB	Modified TO-15/TICs	27.0 "Hg	15 psi
10A	Lab Blank	Modified TO-15/TICs	NA	NA
10B	Lab Blank	Modified TO-15/TICs	NA	NA
11A	CCV	Modified TO-15/TICs	NA	NA
11B	CCV	Modified TO-15/TICs	NA	NA
12A	LCS	Modified TO-15/TICs	NA	NA
12B	LCS	Modified TO-15/TICs	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 04/30/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
GeoSyntec Consultants
Workorder# 0804514

Nine 1 Liter Summa Canister (100% Certified) samples were received on April 23, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no

performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VW-13

Lab ID#: 0804514-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.5	12	8.4	22

Client Sample ID: VW-14

Lab ID#: 0804514-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	2.9	5.8	14
Ethanol	4.7	9.0	8.8	17
Freon 113	1.2	5.4	8.9	41
2-Butanone (Methyl Ethyl Ketone)	1.2	1.2	3.4	3.7

Client Sample ID: VW-12

Lab ID#: 0804514-03A

No Detections Were Found.

Client Sample ID: VW-12C

Lab ID#: 0804514-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	4.1	5.4	20
Ethanol	4.4	7.9	8.3	15
Freon 113	1.1	9.3	8.4	71
Tetrachloroethene	1.1	2.9	7.5	20

Client Sample ID: VW-10

Lab ID#: 0804514-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.7	8.0	8.8	15
Acetone	4.7	65	11	150
2-Butanone (Methyl Ethyl Ketone)	1.2	130	3.4	400
Tetrahydrofuran	1.2	7.7	3.4	23
Chloroform	1.2	1.2	5.7	5.7
2,2,4-Trimethylpentane	1.2	41	5.4	190

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VW-10

Lab ID#: 0804514-05A

Benzene	1.2	3.0	3.7	9.6
Heptane	1.2	5.8	4.8	24
4-Methyl-2-pentanone	1.2	16	4.8	68
Toluene	1.2	52	4.4	200
2-Hexanone	4.7	43	19	180
Ethyl Benzene	1.2	16	5.0	71
m,p-Xylene	1.2	76	5.0	330
o-Xylene	1.2	37	5.0	160
Cumene	1.2	3.3	5.7	16
Propylbenzene	1.2	9.8	5.7	48
4-Ethyltoluene	1.2	54	5.7	270
1,3,5-Trimethylbenzene	1.2	29	5.7	140
1,2,4-Trimethylbenzene	1.2	87	5.7	430

Client Sample ID: VW-11

Lab ID#: 0804514-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.3	6.8	8.1	13
Acetone	4.3	17	10	41
2-Propanol	4.3	6.1	11	15
2-Butanone (Methyl Ethyl Ketone)	1.1	3.6	3.2	11
cis-1,2-Dichloroethene	1.1	3.4	4.3	14
Benzene	1.1	4.9	3.4	16
Toluene	1.1	16	4.1	59
Tetrachloroethene	1.1	4.3	7.3	29
Ethyl Benzene	1.1	3.5	4.7	15
m,p-Xylene	1.1	8.2	4.7	36
o-Xylene	1.1	3.6	4.7	16
4-Ethyltoluene	1.1	1.5	5.3	7.4
1,2,4-Trimethylbenzene	1.1	1.1	5.3	5.4

Client Sample ID: VW-7A

Lab ID#: 0804514-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Butanone (Methyl Ethyl Ketone)	1.2	1.3	3.6	3.8

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: QCFB

Lab ID#: 0804514-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Ethanol	4.6	4.8	8.6	9.0
Acetone	4.6	10	11	25
2-Butanone (Methyl Ethyl Ketone)	1.1	1.5	3.4	4.4

Client Sample ID: QCTB

Lab ID#: 0804514-09A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-13

Lab ID#: 0804514-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042406**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.24**	**Date of Analysis:**	**4/24/08 01:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	12	8.4	22
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	Not Detected	11	Not Detected
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-13

Lab ID#: 0804514-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042406**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.24**	**Date of Analysis:**	**4/24/08 01:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	101	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-14

Lab ID#: 0804514-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042407**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.33**	**Date of Analysis:**	**4/24/08 01:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	2.9	5.8	14
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	9.0	8.8	17
Freon 113	1.2	5.4	8.9	41
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	Not Detected	11	Not Detected
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	1.2	Not Detected	3.6	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	1.2	3.4	3.7
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	4.8	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-14

Lab ID#: 0804514-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042407**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.33**	**Date of Analysis:**	**4/24/08 01:58 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.0	Not Detected
m,p-Xylene	1.2	Not Detected	5.0	Not Detected
o-Xylene	1.2	Not Detected	5.0	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	Not Detected	5.7	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.7	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.7	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	106	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-12

Lab ID#: 0804514-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042408**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.20**	**Date of Analysis:**	**4/24/08 02:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	4.4	Not Detected	9.1	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	Not Detected	8.3	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	Not Detected	10	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-12

Lab ID#: 0804514-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042408**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.20**	**Date of Analysis:**	**4/24/08 02:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	Not Detected	7.5	Not Detected
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	107	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-12C

Lab ID#: 0804514-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042409**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.20**	**Date of Analysis:**	**4/24/08 03:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	4.1	5.4	20
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	4.4	Not Detected	9.1	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	7.9	8.3	15
Freon 113	1.1	9.3	8.4	71
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	Not Detected	10	Not Detected
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	Not Detected	3.5	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	Not Detected	4.1	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-12C

Lab ID#: 0804514-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042409**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.20**	**Date of Analysis:**	**4/24/08 03:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	2.9	7.5	20
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	108	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-10

Lab ID#: 0804514-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042435**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.33**	**Date of Analysis:**	**4/25/08 08:05 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	1.2	Not Detected	3.1	Not Detected
Freon 11	1.2	Not Detected	6.5	Not Detected
Ethanol	4.7	8.0	8.8	15
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	65	11	150
2-Propanol	4.7	Not Detected	11	Not Detected
Carbon Disulfide	1.2	Not Detected	3.6	Not Detected
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.2	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	Not Detected	4.1	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	130	3.4	400
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	7.7	3.4	23
Chloroform	1.2	1.2	5.7	5.7
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	Not Detected	4.0	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	41	5.4	190
Benzene	1.2	3.0	3.7	9.6
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Heptane	1.2	5.8	4.8	24
Trichloroethene	1.2	Not Detected	6.3	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	16	4.8	68
Toluene	1.2	52	4.4	200
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-10

Lab ID#: 0804514-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042435**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.33**	**Date of Analysis:**	**4/25/08 08:05 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	Not Detected	7.9	Not Detected
2-Hexanone	4.7	43	19	180
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	16	5.0	71
m,p-Xylene	1.2	76	5.0	330
o-Xylene	1.2	37	5.0	160
Styrene	1.2	Not Detected	5.0	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	3.3	5.7	16
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	9.8	5.7	48
4-Ethyltoluene	1.2	54	5.7	270
1,3,5-Trimethylbenzene	1.2	29	5.7	140
1,2,4-Trimethylbenzene	1.2	87	5.7	430
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	34	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-11

Lab ID#: 0804514-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042414**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.16**	**Date of Analysis:**	**4/24/08 07:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Chloromethane	4.3	Not Detected	8.9	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.2	Not Detected
Chloroethane	1.1	Not Detected	2.8	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
Ethanol	4.3	6.8	8.1	13
Freon 113	1.1	Not Detected	8.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	4.3	17	10	41
2-Propanol	4.3	6.1	11	15
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.3	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	3.9	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	3.6	3.2	11
cis-1,2-Dichloroethene	1.1	3.4	4.3	14
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Cyclohexane	1.1	Not Detected	3.7	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
Benzene	1.1	4.9	3.4	16
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	Not Detected	5.8	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,4-Dioxane	4.3	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.4	Not Detected
Toluene	1.1	16	4.1	59
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-11

Lab ID#: 0804514-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042414**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.16**	**Date of Analysis:**	**4/24/08 07:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	4.3	7.3	29
2-Hexanone	4.3	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	3.5	4.7	15
m,p-Xylene	1.1	8.2	4.7	36
o-Xylene	1.1	3.6	4.7	16
Styrene	1.1	Not Detected	4.6	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.3	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
4-Ethyltoluene	1.1	1.5	5.3	7.4
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	1.1	5.3	5.4
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-7A

Lab ID#: 0804514-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042413**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/24/08 06:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.2	Not Detected	6.0	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	4.8	Not Detected	10	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	1.2	Not Detected	4.7	Not Detected
Chloroethane	1.2	Not Detected	3.2	Not Detected
Freon 11	1.2	Not Detected	6.8	Not Detected
Ethanol	4.8	Not Detected	9.1	Not Detected
Freon 113	1.2	Not Detected	9.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	4.8	Not Detected	11	Not Detected
2-Propanol	4.8	Not Detected	12	Not Detected
Carbon Disulfide	1.2	Not Detected	3.8	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	1.2	Not Detected	4.2	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	Not Detected	4.3	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.2	1.3	3.6	3.8
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	Not Detected	5.9	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	Not Detected	4.2	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	Not Detected	5.6	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: VW-7A

Lab ID#: 0804514-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042413**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/24/08 06:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	Not Detected	8.2	Not Detected
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	Not Detected	10	Not Detected
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	110	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCFB

Lab ID#: 0804514-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042415**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.29**	**Date of Analysis:**	**4/24/08 08:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.1	Not Detected	5.7	Not Detected
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	4.6	Not Detected	9.4	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.4	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.4	Not Detected
Ethanol	4.6	4.8	8.6	9.0
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	4.6	10	11	25
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.6	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	4.0	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	Not Detected	4.0	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	1.5	3.4	4.4
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.4	Not Detected
Chloroform	1.1	Not Detected	5.6	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	Not Detected	3.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.3	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	Not Detected	4.7	Not Detected
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCFB

Lab ID#: 0804514-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042415**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**2.29**	**Date of Analysis:**	**4/24/08 08:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.6	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	110	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCTB

Lab ID#: 0804514-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042418**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/24/08 09:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: QCTB

Lab ID#: 0804514-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042418**	**Date of Collection:**	**4/22/08**
Dil. Factor:	**1.00**	**Date of Analysis:**	**4/24/08 09:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804514-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 12:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804514-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 12:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	103	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804514-10B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042424**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 09:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0804514-10B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042424**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 09:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Vinyl Acetate	108-05-4	NA	Not Detected
trans-1,4-Dichloro-2-butene	110-57-6	NA	Not Detected
Iodomethane	74-88-4	NA	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	99	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804514-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 09:47 AM**	

Compound	%Recovery
Freon 12	112
Freon 114	103
Chloromethane	103
Vinyl Chloride	106
1,3-Butadiene	108
Bromomethane	114
Chloroethane	101
Freon 11	108
Ethanol	115
Freon 113	102
1,1-Dichloroethene	102
Acetone	103
2-Propanol	100
Carbon Disulfide	101
3-Chloropropene	98
Methylene Chloride	98
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	100
Hexane	105
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	98
Tetrahydrofuran	110
Chloroform	103
1,1,1-Trichloroethane	104
Cyclohexane	98
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	105
Benzene	101
1,2-Dichloroethane	114
Heptane	111
Trichloroethene	103
1,2-Dichloropropane	104
1,4-Dioxane	100
Bromodichloromethane	111
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	113
Toluene	101
trans-1,3-Dichloropropene	108

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804514-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 09:47 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	105
Tetrachloroethene	106
2-Hexanone	102
Dibromochloromethane	122
1,2-Dibromoethane (EDB)	113
Chlorobenzene	105
Ethyl Benzene	103
m,p-Xylene	105
o-Xylene	104
Styrene	108
Bromoform	120
Cumene	110
1,1,2,2-Tetrachloroethane	103
Propylbenzene	115
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	109
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	97
1,2,4-Trichlorobenzene	76
Hexachlorobutadiene	90

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	100	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804514-11B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042417a**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 03:47 PM**

Compound	%Recovery
Freon 12	109
Freon 114	111
Chloromethane	106
Vinyl Chloride	112
1,3-Butadiene	107
Bromomethane	114
Chloroethane	109
Freon 11	114
Ethanol	116
Freon 113	108
1,1-Dichloroethene	114
Acetone	104
2-Propanol	109
Carbon Disulfide	112
3-Chloropropene	112
Methylene Chloride	108
Methyl tert-butyl ether	120
trans-1,2-Dichloroethene	113
Hexane	117
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	117
cis-1,2-Dichloroethene	115
Tetrahydrofuran	107
Chloroform	106
1,1,1-Trichloroethane	112
Cyclohexane	117
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	115
Benzene	104
1,2-Dichloroethane	112
Heptane	114
Trichloroethene	109
1,2-Dichloropropane	113
1,4-Dioxane	111
Bromodichloromethane	115
cis-1,3-Dichloropropene	116
4-Methyl-2-pentanone	117
Toluene	112
trans-1,3-Dichloropropene	117

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0804514-11B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042417a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 03:47 PM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	116
Tetrachloroethene	114
2-Hexanone	110
Dibromochloromethane	116
1,2-Dibromoethane (EDB)	109
Chlorobenzene	112
Ethyl Benzene	116
m,p-Xylene	116
o-Xylene	116
Styrene	114
Bromoform	117
Cumene	113
1,1,2,2-Tetrachloroethane	111
Propylbenzene	118
4-Ethyltoluene	123
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	113
alpha-Chlorotoluene	128
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	101

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	101	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804514-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 10:17 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	96
Chloromethane	97
Vinyl Chloride	98
1,3-Butadiene	98
Bromomethane	108
Chloroethane	94
Freon 11	102
Ethanol	113
Freon 113	109
1,1-Dichloroethene	107
Acetone	110
2-Propanol	100
Carbon Disulfide	96
3-Chloropropene	93
Methylene Chloride	104
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	98
Hexane	102
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	96
Tetrahydrofuran	105
Chloroform	100
1,1,1-Trichloroethane	99
Cyclohexane	92
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	101
Benzene	97
1,2-Dichloroethane	112
Heptane	106
Trichloroethene	101
1,2-Dichloropropane	102
1,4-Dioxane	98
Bromodichloromethane	109
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	118
Toluene	103
trans-1,3-Dichloropropene	101

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804514-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s042403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 10:17 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	100
Tetrachloroethene	103
2-Hexanone	103
Dibromochloromethane	117
1,2-Dibromoethane (EDB)	103
Chlorobenzene	100
Ethyl Benzene	96
m,p-Xylene	98
o-Xylene	100
Styrene	101
Bromoform	117
Cumene	106
1,1,2,2-Tetrachloroethane	101
Propylbenzene	110
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	87
Hexachlorobutadiene	91

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	104	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804514-12B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042422**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 07:22 PM**

Compound	%Recovery
Freon 12	106
Freon 114	116
Chloromethane	109
Vinyl Chloride	118
1,3-Butadiene	107
Bromomethane	116
Chloroethane	118
Freon 11	114
Ethanol	123
Freon 113	127
1,1-Dichloroethene	127
Acetone	109
2-Propanol	115
Carbon Disulfide	114
3-Chloropropene	117
Methylene Chloride	117
Methyl tert-butyl ether	124
trans-1,2-Dichloroethene	114
Hexane	116
1,1-Dichloroethane	114
2-Butanone (Methyl Ethyl Ketone)	119
cis-1,2-Dichloroethene	112
Tetrahydrofuran	100
Chloroform	103
1,1,1-Trichloroethane	106
Cyclohexane	112
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	110
Benzene	102
1,2-Dichloroethane	109
Heptane	116
Trichloroethene	106
1,2-Dichloropropane	108
1,4-Dioxane	102
Bromodichloromethane	111
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	114
Toluene	111
trans-1,3-Dichloropropene	113

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0804514-12B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5042422**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/24/08 07:22 PM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	109
Tetrachloroethene	112
2-Hexanone	111
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	102
Chlorobenzene	109
Ethyl Benzene	111
m,p-Xylene	112
o-Xylene	111
Styrene	111
Bromoform	114
Cumene	111
1,1,2,2-Tetrachloroethane	107
Propylbenzene	113
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	126
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	95

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: CHRIS GALE
Collected by: (Print and Sign) V. SKILLEN
Company: GEOSYNTEC Email: cgale@geosyntec.com
Address: 10875 R.B Road Suite 200 City: San Diego State: CA Zip: 92127
Phone: 858-674-6559 Fax: 858-674-6586

Project Info:
P.O. #
Project # SC-0233-14-01
Project Name: Poway

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	VW-13	5C48	4/22/08	8:20	TO-15 + TIC	30	5.5		
02A	VW-14	9494	4/22/08	9:07		30	6		
03A	VW-12	21019	4/22/08	10:00		30	4.5		
04A	VW-12C	93102	4/22/08	10:00		30	4.5 5.5		
05A	VW-10 SC66	~~1009~~	4/22/08	10:09		29.5	4		
06A	VW-11	12029	4/22/08	9:12		29	3		
07A	VW-7A	31759	4/22/08	1254		30.0	4.0		
08A	QCFB	35659	4/22/08	1245		30.0	2.5		
09A	QCTB	SC61	4/22/08	lab Prep		—	—		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	4/22/2008 1350	[signature] ATL	04-23-08 1010
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
See Kyle Vagadori for TIC's
Fed Ex # 8652 7095 5355

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		NA	good	Yes No None	0804514

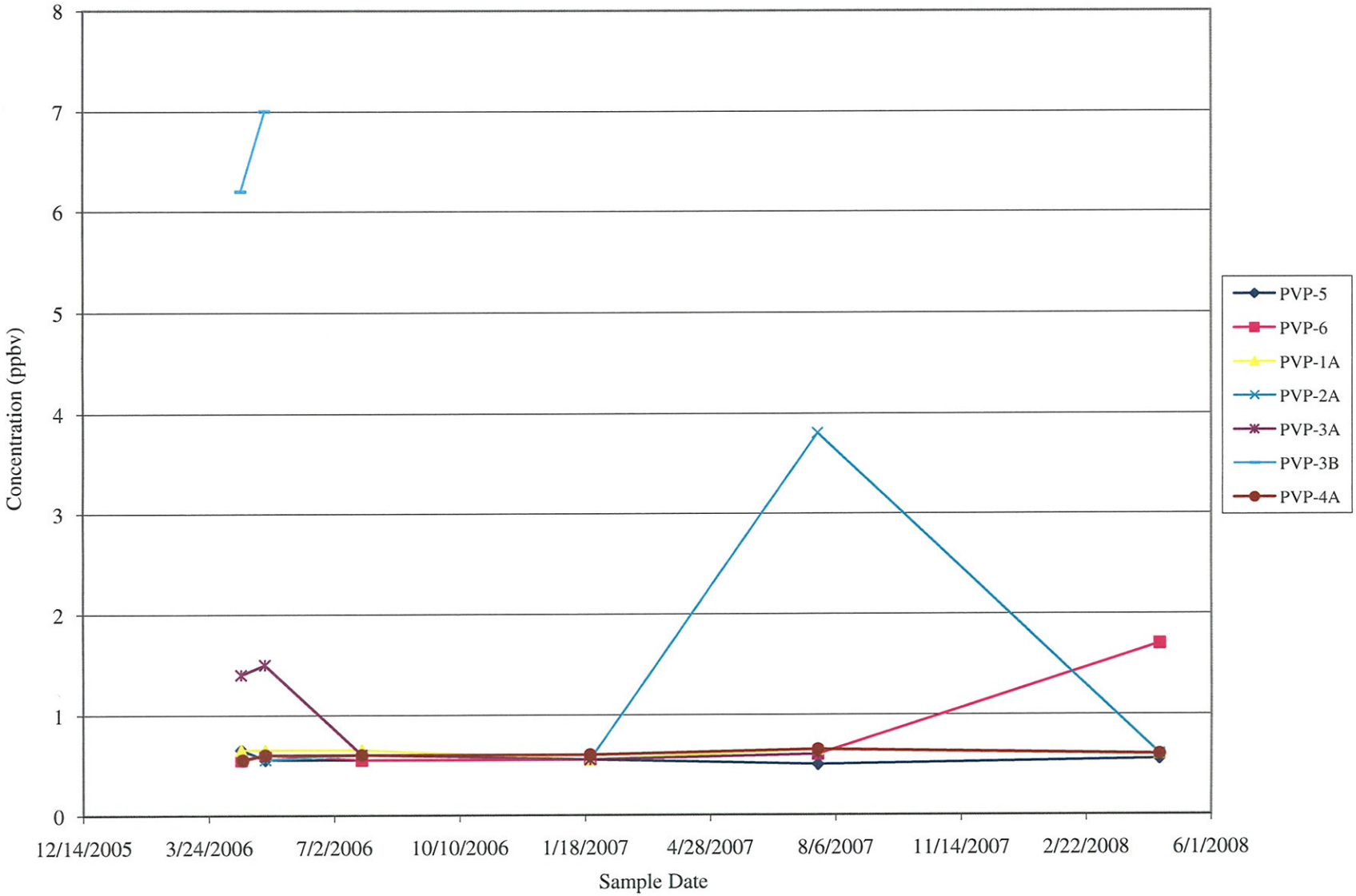
Form 1293 rev.11

ATTACHMENT C

Time Series Plots

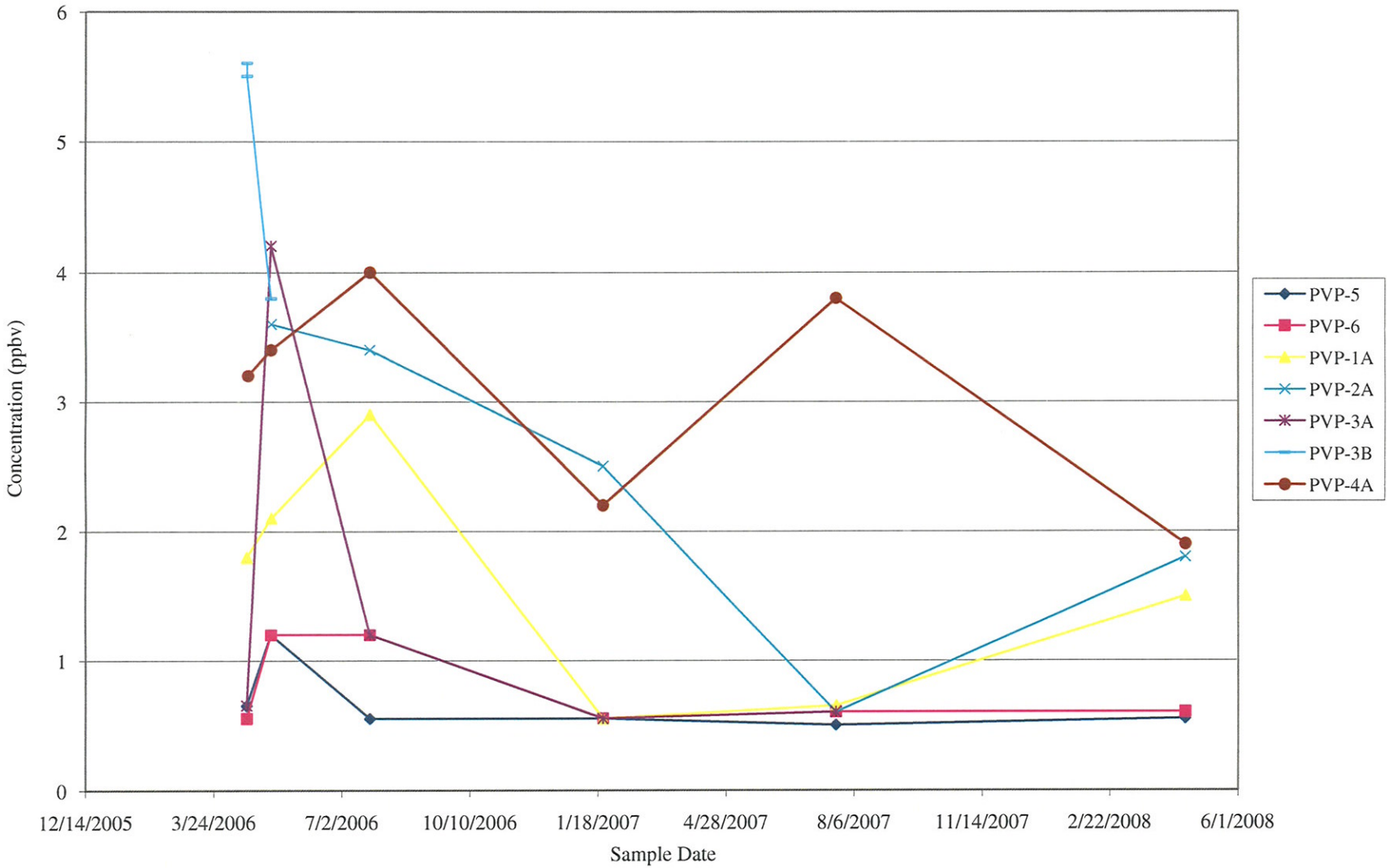
Time-Series Plot for Benzene in Onsite Soil Vapor
Poway Landfill

Geosyntec consultants



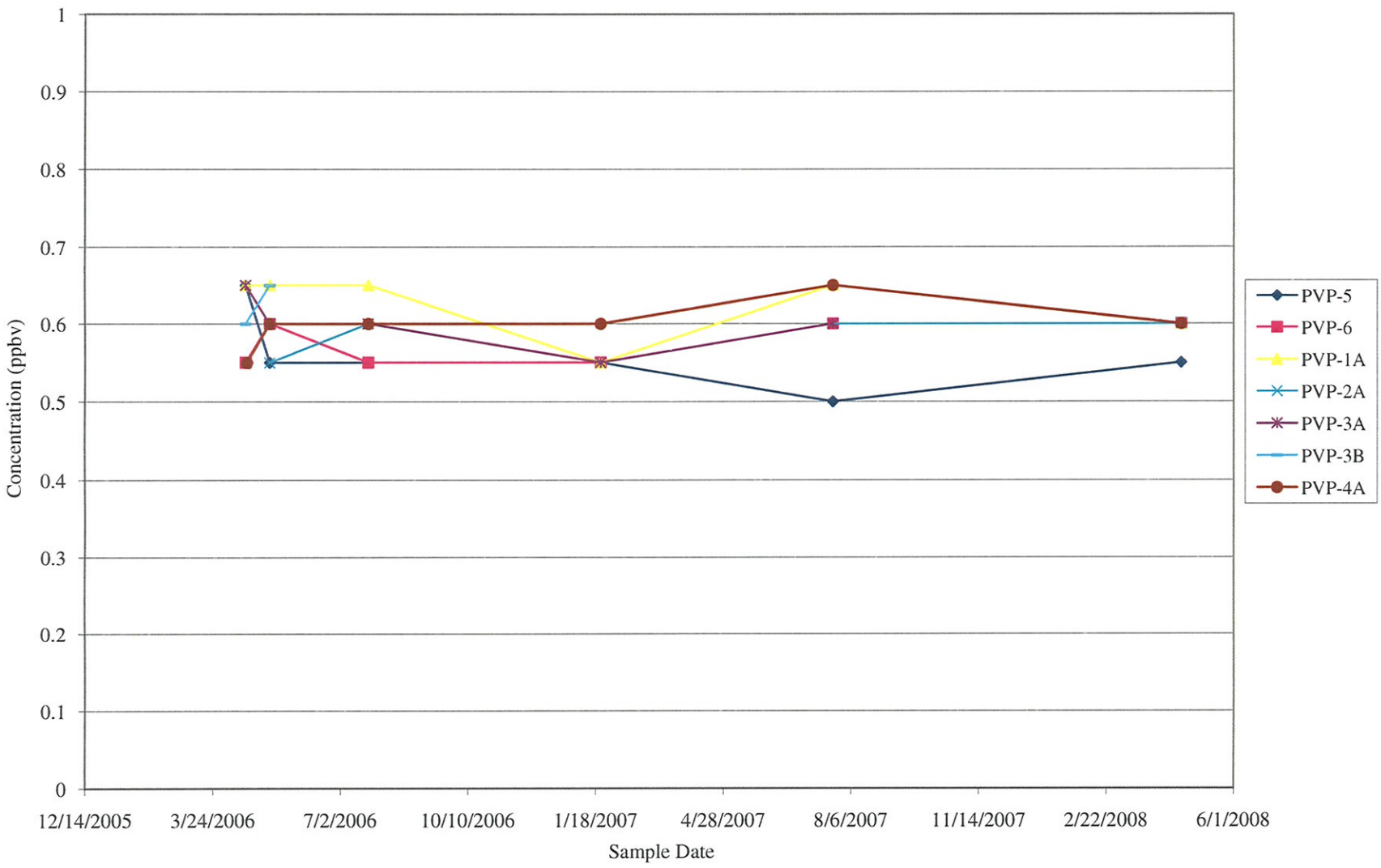
Time-Series Plot for Tetrachloroethene in Onsite Soil Vapor
Poway Landfill

Geosyntec consultants



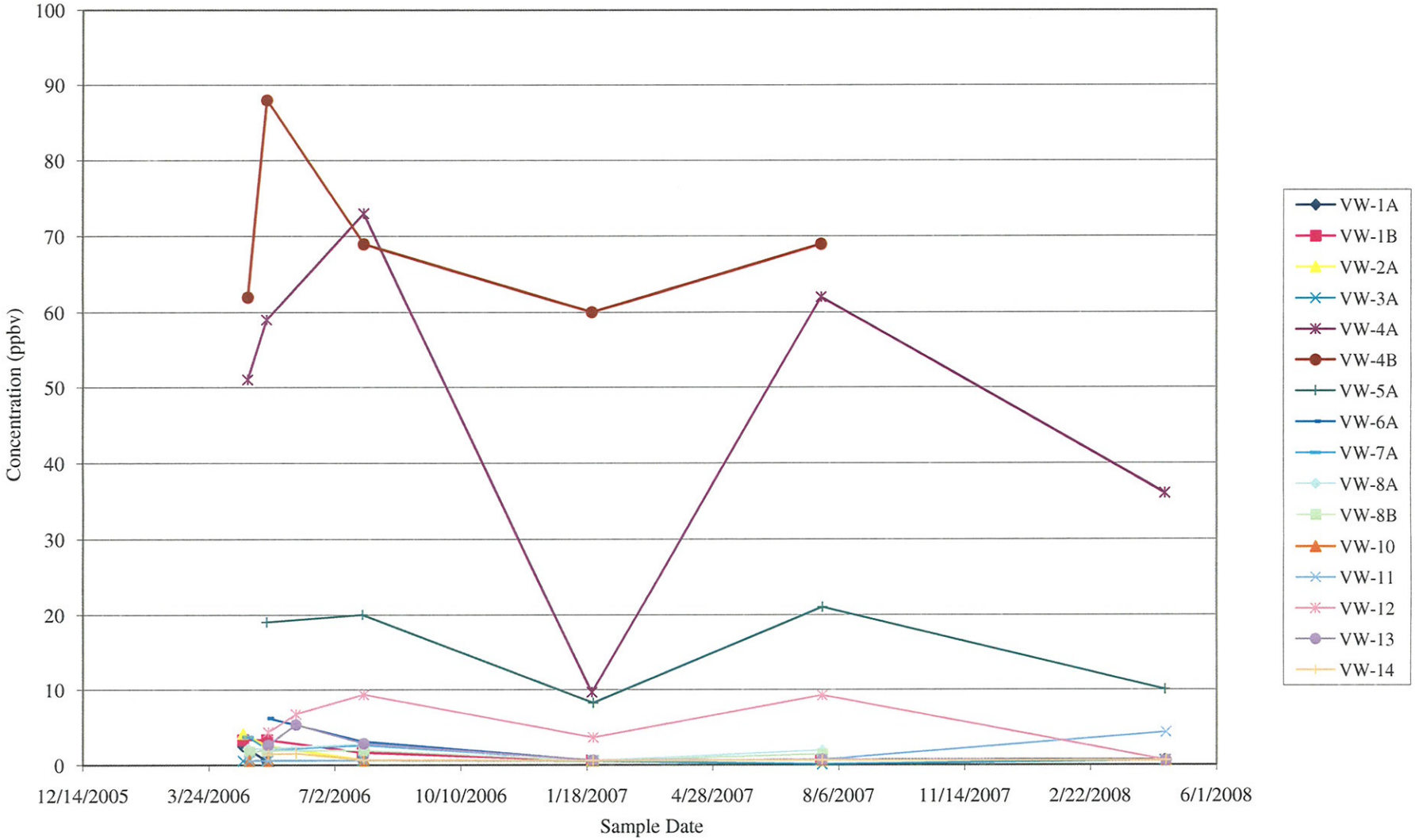
Time-Series Plot for Trichloroethene in Onsite Soil Vapor
Poway Landfill

Geosyntec consultants



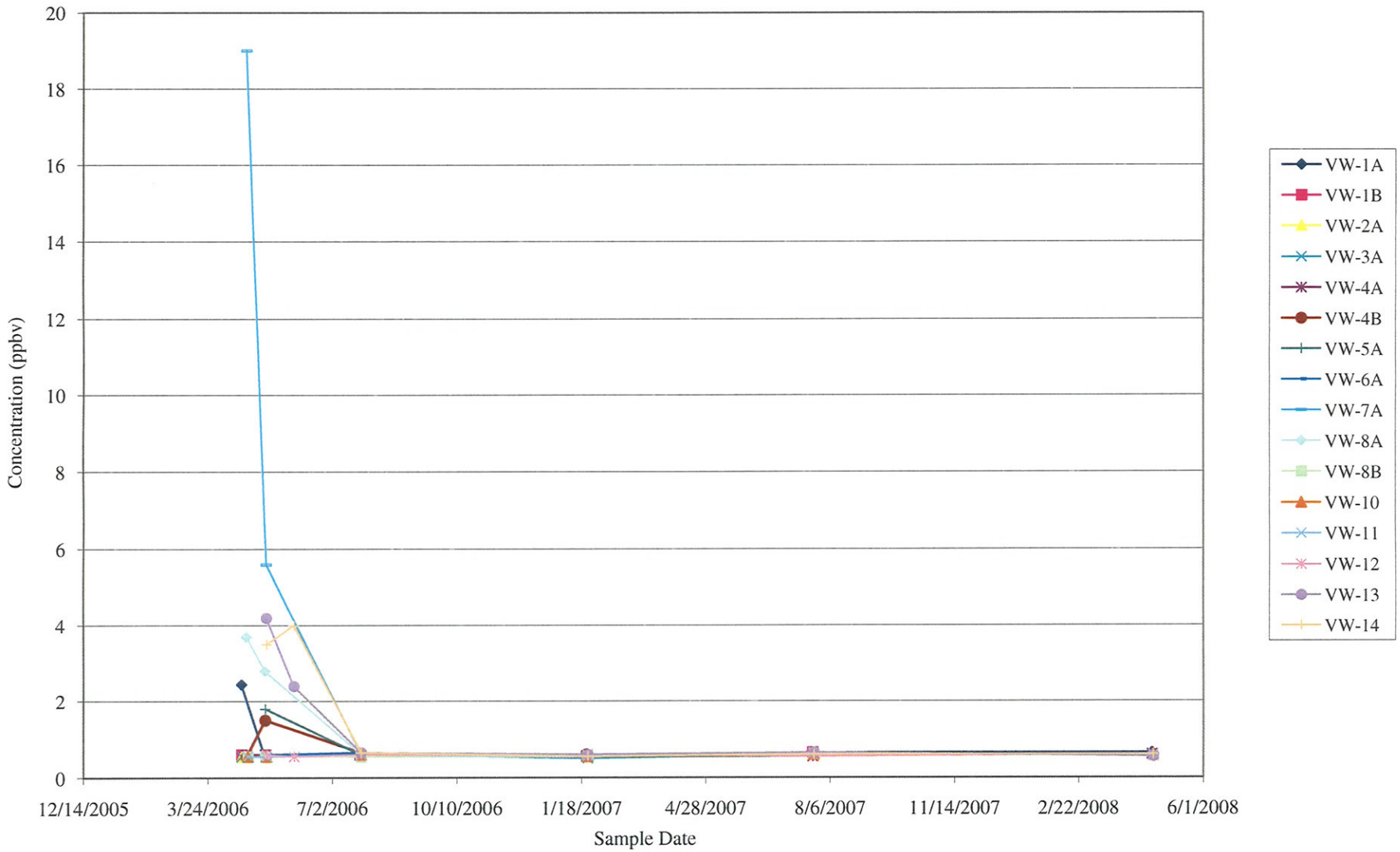
Time-Series Plot for Tetrachloroethene in Offsite Soil Vapor
Poway Landfill

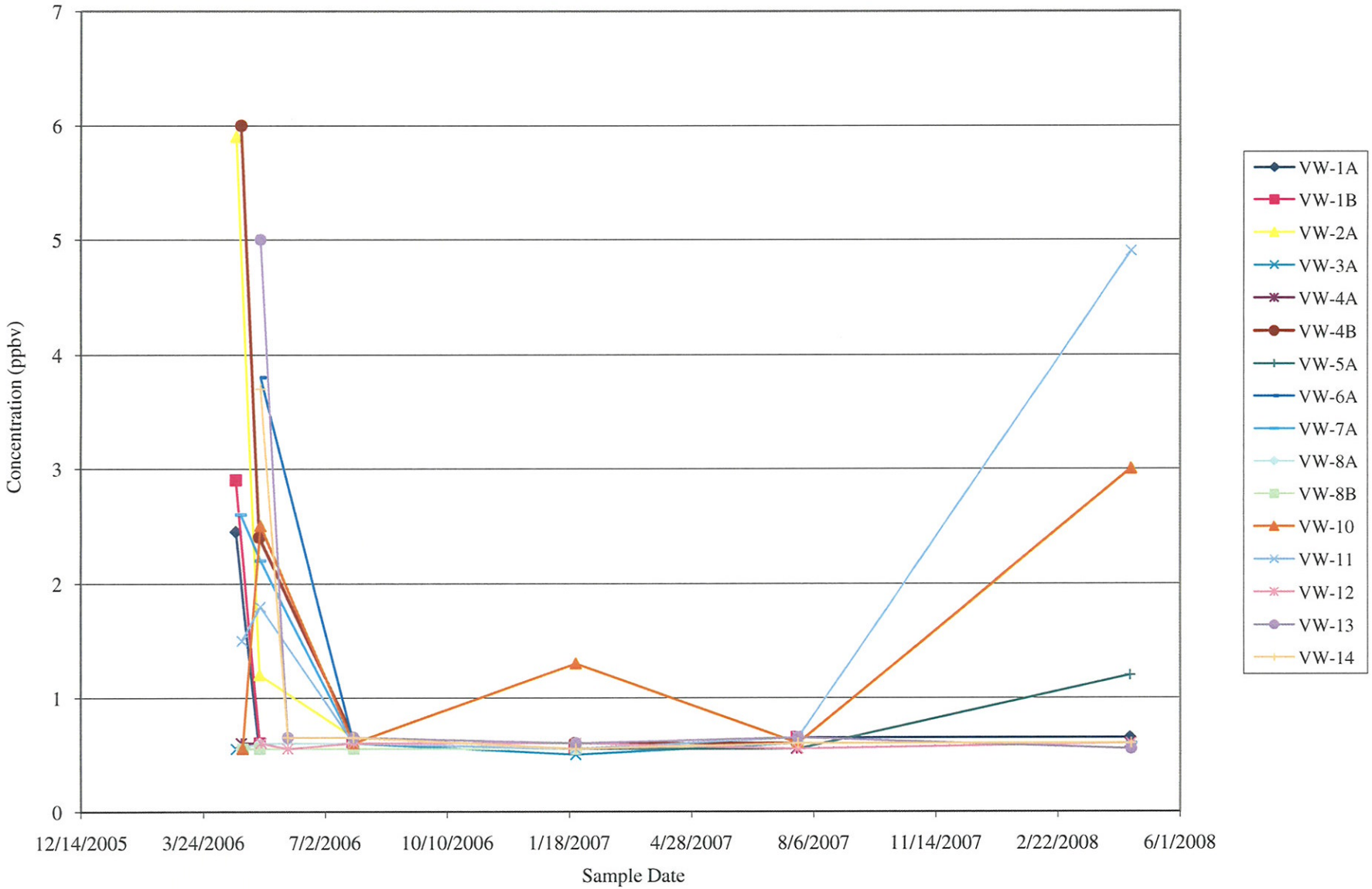
Geosyntec consultants



Time-Series Plot for Trichloroethene in Offsite Soil Vapor
Poway Landfill

Geosyntec consultants



Time-Series Plot of Benzene in Offsite Soil Vapor
Poway Landfill

Geosyntec consultants