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bcc
Subject Submittal of Expanded SVE Pilot Testing TM

History: This message has been forwarded.

Hi Chris - the expanded SVE pilot testing TM is provided for your review. The attached pdf file includes the report text and tables, figures, and appendices (including analytical reports). If you have any questions regarding this submittal, please feel free to call.

Have a great holiday weekend!!

Regards,

Sharon Wallin, P.G.

New Location, Direct Dial No., and Fax as of August 6, 2007:

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<<ExpPilotTM__083107_EPA_complete.pdf>> ExpPilotTM__083107_EPA_complete.pdf

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Memorandum

To: *Chris Lichens - USEPA*

From: *Dave Chamberlin - CDM*
John Eisenbeis - CDM

Date: *August 31, 2007*

Subject: *Technical Memorandum*
Expanded Soil Vapor Extraction Pilot Test Findings
Omega Chemical Superfund Site
10500-37240-T2.OSS.SVEOP
10500-5.2.3

1.0 Introduction

Camp Dresser & McKee Inc. (CDM) has prepared this Technical Memorandum (TM) on behalf of the Omega Chemical Site Potentially Responsible Party (PRP) Organized Group (OPOG) to present additional findings of the expanded soil vapor extraction (SVE) pilot testing at the Omega Chemical Superfund Site (Site). This document has been prepared in accordance with the Statement of Work (SOW) in Consent Decree (CD) No. 00-12471 between the United States Environmental Protection Agency (EPA) and OPOG, which required OPOG to implement a vadose zone remedial investigation/feasibility study (RI/FS) for contaminant releases on, at, or emanating from the Site. The CD was lodged on November 24, 2000 and entered into the US District Court on February 28, 2001.

An initial pilot test was conducted between September and December 2006 to collect data to confirm the feasibility of SVE and to assist in the design and implementation of a potential full-scale SVE system at the Site, if appropriate. The primary volatile organic compounds (VOCs) at the Site and adjacent parcels are tetrachloroethene (PCE), trichloroethene (TCE), and 1,1-dichloroethene (1,1-DCE).

The initial pilot test was performed according to the methods described in the Soil Vapor Extraction Pilot Test Work Plan (CDM, August 4, 2006) and consisted of two types of tests: step testing and a multi-week pilot test. The step testing was performed to evaluate the

following: 1) relationship between applied vacuum at the SVE wells and the resulting vapor flows; and 2) the resulting vacuum distributions in the subsurface around the wells. The multi-week test provided design information for potential implementation of the SVE technology once near-equilibrium conditions had been established by operating the SVE system for several weeks. In addition, multi-week pilot testing provided additional information concerning the mass of contaminants in the vicinity of the test wells.

Expanded pilot testing was recommended in the Technical Memorandum for Soil Vapor Extraction Pilot Test Initial Findings (CDM, February 5, 2007) that presented the initial findings and EPA's subsequent comments. The expanded pilot test documented in this TM was performed in the Star City Auto Body portion of the Site according to the methods described in the *Revised Second Addendum to February 5, 2007 Technical Memorandum* (CDM April 20, 2007). The expanded pilot test consisted of three phases of testing, as follows: pneumatic communications testing, step testing, and multi-week extended testing. These tests were conducted to characterize the extent of pneumatic communication through the 30-foot unit and provide further design information about SVE system operation at near-equilibrium conditions.

2.0 Objectives

The overall objectives of the expanded SVE pilot test were to collect additional data which will be used in the selection, design, and implementation of the overall on-site soils remedy for the Site. Specifically, the collected data will aid in selecting the most appropriate SVE design parameters for a potential full-scale system at the Site.

Specific objectives for the expanded pilot test included:

- Determine whether pneumatic communication occurs across the 30-foot unit at multiple locations. The 30-foot unit was identified during the recently-completed RI and is described in detail in Section 2.4.4 of the revised draft RI report (CDM, June 19, 2007).

- Confirm the ability of vapor phase granular activated carbon (GAC) to treat extracted vapors to appropriate discharge limits.

- Estimate the contaminant mass removal rate in extracted vapors from wells located at Star City Auto Body in the exterior, concrete paved parking lot. These rates will be used to size and select the treatment systems for a potential full-scale system and to evaluate potential air discharge permit issues, if any.

- Estimate the achievable SVE treatment zone sizes for SVE wells on the Star City Auto Body lot for the interval above the 30-foot unit to serve as a basis to select well spacing and construction.

- Collect transient vacuum readings for calculation of intrinsic permeability of the soils.

3.0 SVE Well and VMP Installation

Between May 20 and June 10, 2007, three SVE/monitoring wells (SVE-6S, SVE-7S, and SVE-8S) and six vapor monitoring probes (VMP1 through VMP6) were installed at the Site for pilot testing purposes. SVE well locations are shown in Figure 3-1. The SVE wells were installed using the hollow-stem auger drilling method using 10-inch diameter hollow stem augers, and were constructed of 4-inch diameter Schedule 40 PVC. Each borehole was continuously sampled using a split spoon sampler to document the soil profile at each location. The three new SVE wells (VE-6S to VE-8S) were screened from 10 to 30 feet below ground surface (bgs) with 20-slot (0.020-inch opening) perforated PVC casing. The total depth of the SVE wells was approximately 30 feet bgs. No. 3 Monterey sand was used for filter pack around the well screens. Hydrated medium-sized bentonite chips (approximately 3 feet thick) were placed in the annulus above the filter pack. The rest of the annulus was backfilled with Portland cement (with 5% bentonite added) grout to the ground surface. Surfaces at each location were completed with a flush-grade, water-tight, traffic-rated surface completions. Table 3-1 summarizes the SVE well construction details.

The VMPs were installed using the direct push drilling method, and were constructed of 1-inch diameter Schedule 40 PVC. Each borehole was continuously sampled using a macrocore sampler to document the soil profile at each location. One VMP (VMP-2) was completed in the 30-foot unit and was screened from 33.5 to 35 feet with 20-slot perforated PVC casing. The remaining five VMPs were screened from 40 to 45 feet with 20-slot perforated PVC casing. The total depths of the VMPs were approximately 45 feet bgs for the five "deep" VMPs and 35 feet bgs for the VMP completed in the 30-foot unit. No. 3 Monterey sand was used for filter pack around the well screens. Hydrated medium-sized bentonite chips (approximately 3 feet thick) were placed in the annulus above the filter pack. The rest of the annulus was backfilled with Portland cement (with 5% bentonite added) grout to the ground surface. Surfaces at each location were completed with a flush-grade, water-tight, traffic-rated surface completions. Table 3-1 summarizes the VMP construction details.

The lithology encountered during well installation was continuously logged from the surface to the final depth according to the Unified Soil Classification System. The boring logs are presented in Appendix A. Field activities were performed in accordance with CDM's Standard Field Procedures Manual and CDM Health and Safety Plan (HASP) for the Omega site. A CDM geologist was present during all of these Site activities.

During drilling and completion of the soil borings, headspace measurements using a MiniRAE photoionization detector (PID) were performed on soil samples at approximate 5-foot intervals. Recorded measurements ranged from 0.0 to 622 parts per million by volume (ppmv). In general, PID soil head space readings recorded during the drilling were above background levels.

4.0 Equipment Setup

This section summarizes the equipment used during the expanded SVE pilot testing.

SVE System Equipment

Northstar Environmental Remediation (NER) was subcontracted to furnish, set up, and maintain a mobile SVE system. The SVE system used consisted of one 25 horsepower (HP) oil-sealed liquid ring pump capable of extracting up to 250 actual cubic feet per minute (acfm) at a vacuum of 29 inches of mercury (in. Hg). The skid mounted system was also equipped with an air/water separator with a high water level shutoff switch and drain pump, a particulate filter, 240-volt, 3-phase, 60-amp control panel, vacuum and flow gages and other instrumentation as necessary to operate the system. All system piping, hoses, and conduits were installed above ground.

Vapor Treatment

Soil vapors were treated using two 1,000-pound GAC vessels installed in series to comply with requirements of a South Coast Air Quality Management District (SCAQMD) various-locations vapor treatment permit (Permit No. F88601). Sampling ports were installed at the wellhead and at various locations in the system to monitor and collect system influent and effluent vapor samples. The air discharge from the carbon vessels (effluent), as required by the SCAQMD permit, along with system influent and between the lead and lag GAC vessels were tested using a PID unit calibrated with hexane.

Other Equipment Used during Testing

The following additional equipment was used during testing:

- Subsurface pressure at vapor probes and non-operating wells were measured using magnehelic gauges or a digital pressure meter (OMEGA HHP-103).
- Concentrations of VOCs in the influent, effluent, and outlet (between the GAC units) streams were monitored with a MiniRAE 2000 PID unit, (11.7 eV ionization potential

lamp) and a PE Photovac Intrinsically Safe Handheld Flame Ionization Detector (FID) unit. The instruments were calibrated to 100 ppmv isobutylene and hexane, respectively. One-liter Tedlar bags were used to collect soil gas samples for field analysis.

- A 2-inch diameter (25 to 125 acfm flow range) direct read, in-line flow meter (AMETEK ROTRON) was used to measure flow rates at the entering the primary GAC vessel.

- Wellhead conditions, such as temperature and flow rate, were measured using a TSI VelociCalc (Model 8347) digital flow meter.

Field equipments were calibrated in accordance with the manufacture's instructions. Instruments requiring field calibration were checked and adjusted before and after each day of use.

5.0 Pilot Test Results

Between June 14 and July 20, 2007, CDM conducted a pneumatic communications test and three one-day step tests at each of the new shallow wells (VE-6S through VE-8S) in the Star City Auto Body property. The SVE system was located in the portion of the Site occupied by Star City Auto Body. Appendix B contains a detailed discussion of the pilot test results. The field data collected during the expanded pilot test are summarized in Tables 5-1 and 5-2.

6.0 Analytical Results

Soil vapor samples were collected from the system influent, between the GAC canisters (outlet) and system discharge point (effluent) and analyzed for VOCs in accordance with EPA Method No. TO-15. Soil vapor samples were submitted to Sun Star Laboratories, Inc (Sun Star), a State-certified environmental laboratory located in Tustin, California. The air samples were collected by using 1000 cubic centimeter (cc) silonite-coated steel canisters provided by Sun Star. Table 6-1 summarizes the soil vapor analytical results. The laboratory analytical reports are contained in Appendix C.

Although system influent samples were collected during the pneumatic testing and step testing phases, laboratory analysis of these results reported concentrations that were an order of magnitude lower than anticipated when compared to field monitoring results. It is believed that these lower than anticipated results were caused by a problem with the canisters' connection fitting, inadvertently diluting the sample during collection. These laboratory results have not been presented in this document, but are available for review in Appendix C.

7.0 Evaluation of Pilot Test Results

This section presents an interpretation of the test results with regard to the test objectives.

Pneumatic Communication

Vacuum measurements taken during operation of the new SVE wells showed that there is definite pneumatic communication across the 30-foot unit. This result was demonstrated at several locations.

Radius of Influence

Typical vacuum measurements from VMPs on the Star City Auto property during step testing are included in Appendix D, Figures D-1 through D-3. The achievable radius of influence (ROI) during the testing was typically greater than 45 feet. This uses a ROI that is defined by at least 0.1 in. H_2O vacuum. Using 0.1 inch water as the reference, the estimated ROI as measured from the VE-6S well and three VMPs (VMP-4 through VMP-6) at 45 feet bgs was approximately 48 feet. Such an ROI was typically achievable by applying approximately 6 in. Hg to the well. The corresponding vapor extraction rate was 145 standard cubic feet per minute (scfm) (Figure D-1). Estimated ROI for VE-8S increased to approximately 77 feet by applying approximately 4 in. Hg to the well (Figure D-3). Due to the inconclusive measurements obtained from VMP-4, evaluation of ROI for VE-7S was based on the data collected from VMP-5 and VMP- 6. The achievable ROI for VE-7S was estimated to be greater than 60 ft at an applied vacuum of 3 in. Hg.

VOC Mass Removal Rates

The analytical results indicated that the VOCs most commonly detected in the soil vapor samples were PCE, TCE, and 1,1- DCE. These data can be used to determine breakthrough times for each VOC, which can in turn be used as a basis to design full-scale GAC treatment units and estimate breakthrough times for such a system, as appropriate.

The VOC mass removal rate for the system was estimated by multiplying the linearly interpolated daily extraction flow rate by the linearly interpolated VOC concentrations of the soil gas samples. Analytical results of the system influent (undiluted samples only) were used to calculate VOC mass removal rates (Figure 7-1). The estimated VOC mass removal rates and cumulative mass removal are presented in the operations summary (Table 7-1) and illustrated in Figures 7-2 and 7-3.

Between June 20 and July 20, 2007, approximately 817 pounds of VOCs were estimated to have been removed from the Site. In general, an average VOC mass removal rate of

approximately 48 pounds per day (lbs/day) was observed during the third phase (multi-week testing) of the expanded pilot study.

Vapor Treatment

The soil vapor analytical data collected at the system influent, in-between carbon units, and at the effluent port of the GAC units indicated that the GAC was capable of removing all VOCs in the extracted vapors (Table 6-1). Based upon the recorded flow rates, it is estimated that over 3.7 million cubic feet of soil vapor were extracted and treated during the third phase of the expanded pilot test.

8.0 Conclusions

The following are the main conclusions of the pilot test performed as of the date of this TM:

- Review and evaluation of the test results concluded that pneumatic communication occurs across the 30-foot unit.
- A ROI of at least 77 feet was achieved when 4 inches of Hg vacuum was applied at VE-8S. This resulted in a vapor extraction flow of approximately 93 to 100 scfm.
- A ROI of at least 60 feet was achieved when 3 inches of Hg vacuum was applied at VE-7S. This resulted in a vapor extraction flow of approximately 95 to 100 scfm.
- A ROI of at least 48 feet could be achieved when 6 inches of Hg vacuum was applied at VE-6S. This resulted in a vapor extraction flow of approximately 145 scfm.
- VOC mass removal rates ranged from 35 to 53 pounds per day (average of 48 pounds per day), depending on the SVE well operated. A total of 817 lbs of VOCs were removed during the expanded pilot test.
- The concentrations of VOCs in extracted vapors from the three new Star City Auto Body wells, coupled with the time trend in these rates (Figure 7-1) indicate a strong source of VOCs at this location.
- The GAC treatment units were capable of removing the VOCs found in the extracted soil vapors. The analyses of the samples that were collected at the GAC units provided a basis to evaluate and design GAC treatment for a potential full-scale SVE system, if appropriate.

References

CDM, 2006. *Soil Vapor Extraction Pilot Test Work Plan,* August 4.

CDM, 2007. *Technical Memorandum for Soil Vapor Extraction Pilot Test Initial Findings*, February 5.

CDM, 2007. *Revised Second Addendum to February 5, 2007 Technical Memorandum, Soil Vapor Extraction Pilot Test*, April 20.

CDM, 2007. Revised *Draft Human Health Risk Assessment for On-Site Soils*, August 6.

CDM, 2007. Revised *Draft On-Site Soils Remedial Investigation Report*, June 19.

Figures and Tables

Legend

- Property Boundary
- Former Omega Chemical Property
- Existing Building
- Former Building
- Soil Vapor Extraction Well
- Vapor Monitoring Probe Below the 30 Foot Unit
- Vapor Monitoring Probe In the 30 Foot Unit

0 20 40 80
Feet

CDM

Omega Chemical Superfund Site
Expanded Pilot Test SVE Well and VMP Locations
Figure 3-1

Figure 7-1
Omega Chemical Superfund Site Expanded SVE Pilot Test
Total Influent VOC Analytical Results

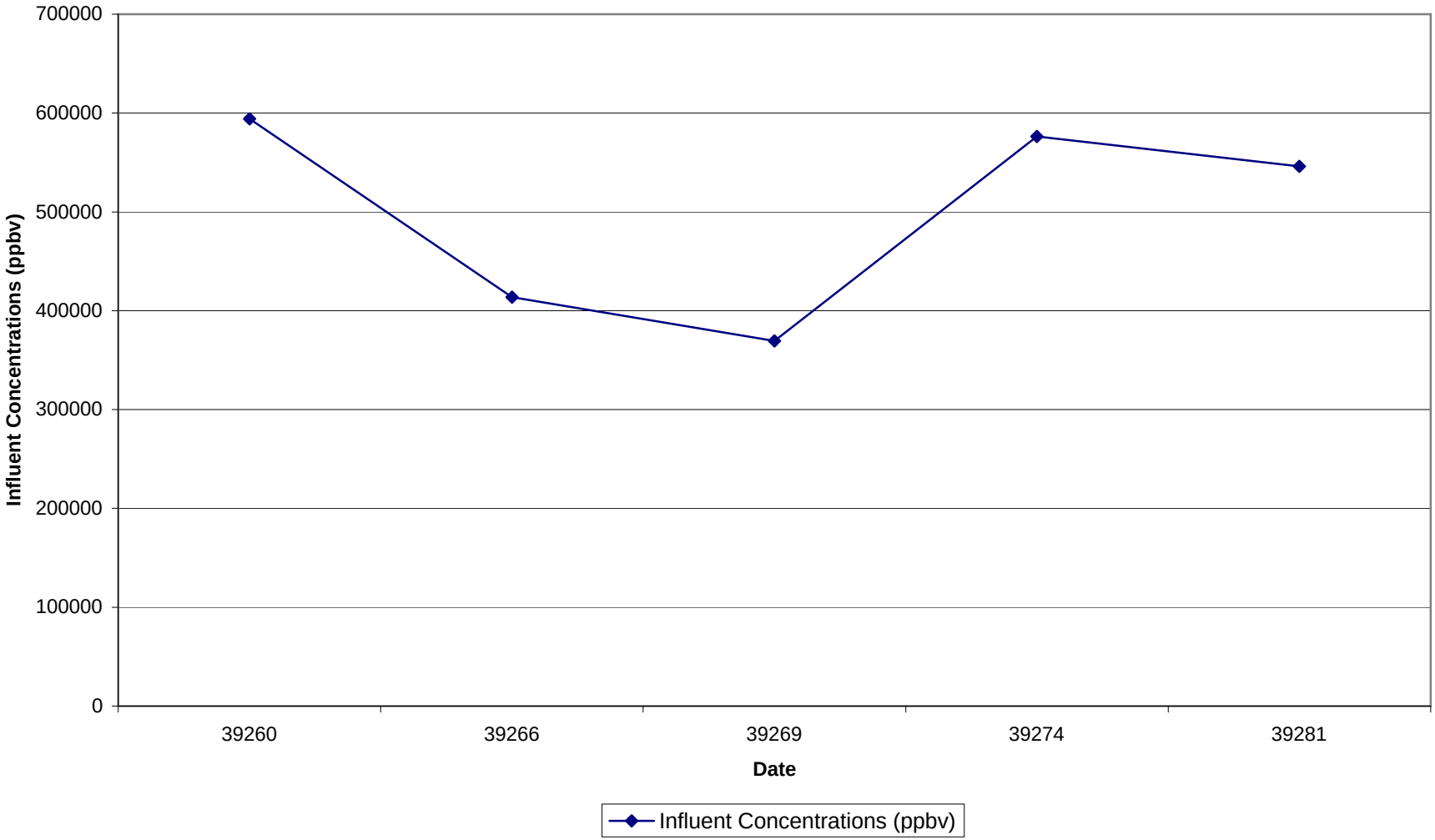


Figure 7-2
Omega Chemical Superfund Site Expanded SVE Pilot Test
Estimated VOC Removal Rate (lbs/day)

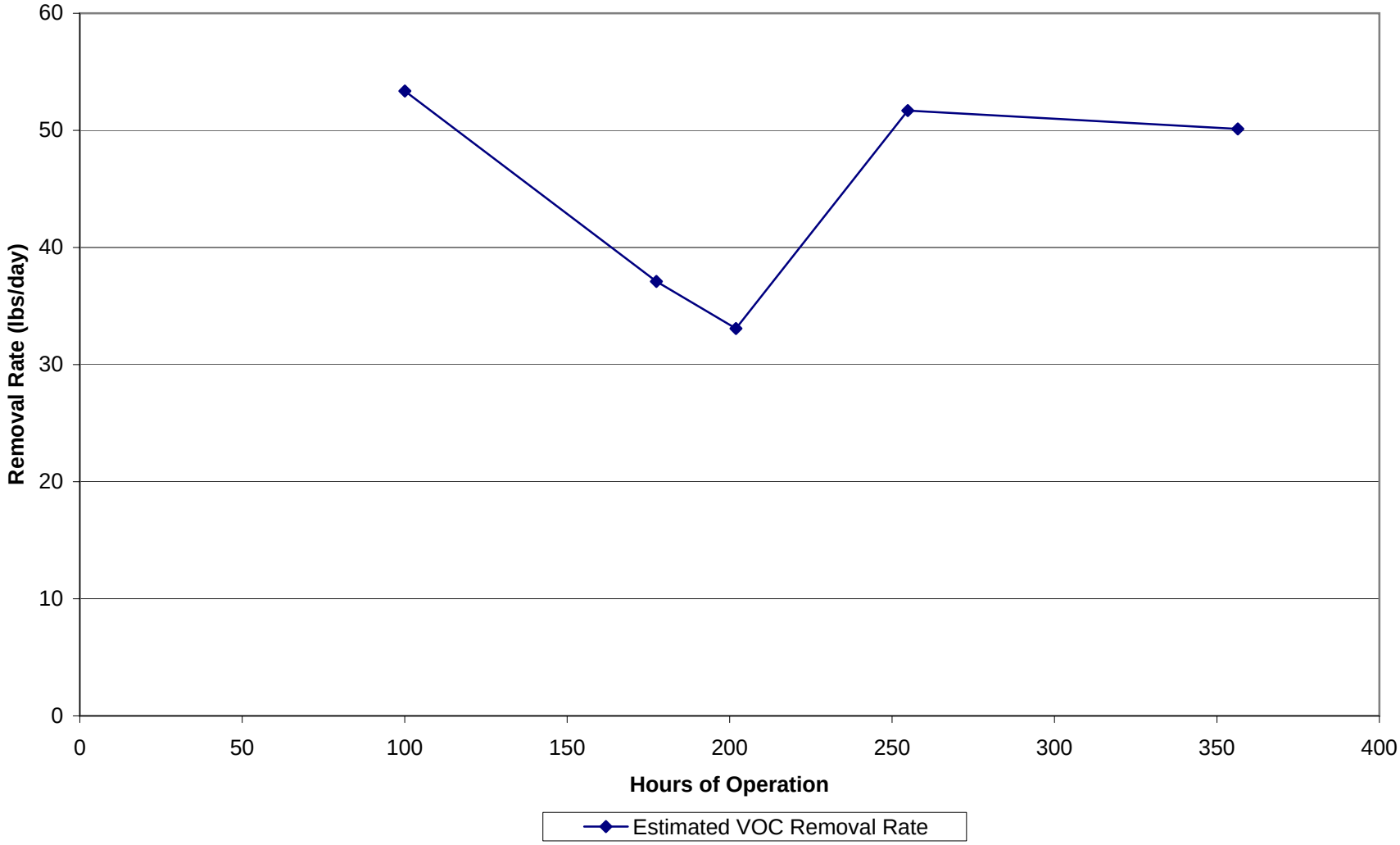


Figure 7-3
Omega Chemical Superfund Site Expanded SVE Pilot Test
Estimated Cumulative VOC Mass Removed (lbs)

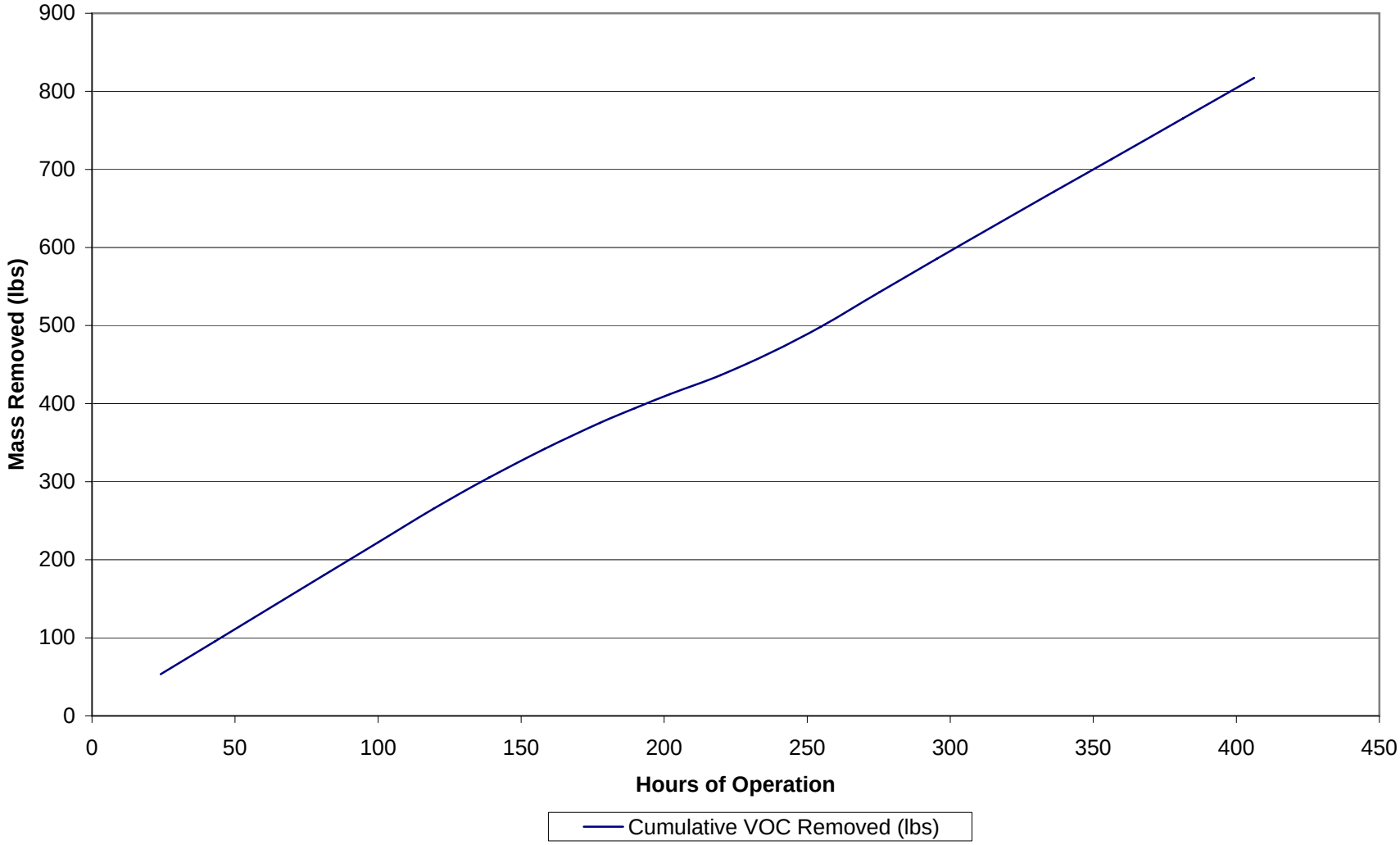


Table 3-1
Omega Chemical Superfund Site Expanded SVE Pilot Test
SVE Well and VMP Construction Details

ID	Total Drilled Depth (feet)	Screened Interval (feet bgs)	Filter Pack Interval (feet bgs)	Bentonite Interval (feet bgs)	Date Drilled
VE-6S	30	10 - 30	7 - 30	0.5 - 7.0	5/20/2007
VE-7S	30	10 - 30	7 - 30	0.5 - 7.0	5/20/2007
VE-8S	30	10 - 30	7 - 30	0.5 - 7.0	5/20/2007
VMP-1	45	40 - 45	37 -45	2.0 -37	6/6/2007
VMP-2	35	33.5 - 35	32.5 - 35	2.0 - 32.5	6/6/2007
VMP-3	45	40 - 45	37 - 45	2.0 - 37	6/6/2007
VMP-4	45	40 - 45	38 - 45	0.6 - 38	6/10/2007
VMP-5	45	40 - 45	38 - 45	0.5 - 38	6/10/2007
VMP-6	45	40 - 45	38 - 45	0.5 - 38	6/10/2007

Note:
bgs: below ground surface

Table 5-1
Omega Chemical Superfund Site Expanded SVE Pilot Test
Single Well Tests Summary

Active Wellhead		Wellhead Vacuum (in. Hg)	Flow Rate (SCFM)	Influent PID (ppmv)	Influent FID (ppmv)
VE-6S	Step 1	4	113	83.5	268.4
	Step 2	6	145	99.8	275.6
	Step 3	2.5	86	103	261.9
VE-7S	Step 1	5	101	580	1421
	Step 2	7	160	610	1445
	Step 3	3	86	404	1337
VE-8S	Step 1	6	108	407	1100
	Step 2	8	145	363	1100
	Step 3	4	93	404	--

Notes

in. Hg	inches of mercury
SCFM	standard cubic feet per minute
in. H2O	inches of water
ppmv	parts per million by volume
--	not measured

Table 5-2
Omega Chemical Superfund Site Expanded SVE Pilot Test
Field Monitoring Data Summary

Date	VE-7S Vacuum [2] (in. Hg)	VE-7S Flow Rate (SCFM)	VE-8S Vacuum (in. Hg)	VE-8S Flow Rate (SCFM)	PID Influent (ppmv)	FID Influent (ppmv)
6/20/2007	3	82.5	4	90	425	1120
6/21/2007	3	74	3.5	74	480	880
6/22/2007	2.5	75	3	74.5	505	780
6/25/2007	2.8	70	3.2	72	421	815
6/26/2007	2	64	1.5	68	470	673
6/27/2007	2	74	2.5	68	521	710
6/28/2007 [1]	2	72	1.5	72	408	618
6/29/2007	2	98.5	1.5	71	490	582
7/2/2007	2.5	81.5	2	70	517	568
7/3/2007	2	90	3	68	460	495
7/5/2007	2.5	76	2	70	425	428
7/6/2007	2	82	2.6	70	476	525
7/9/2007	2.5	65	2	67	528	--
7/10/2007	2	77	2	67	522	--
7/11/2007	2	82.5	2.5	70	484	388
7/12/2007 [1]	2	62.5	1.5	64	685	355
7/13/2007	2	97	1.5	71	322	406
7/16/2007	2.5	61	2	62	406	330
7/18/2007	2	89.5	3	69.5	247	375
7/20/2007	2.3	78	2.5	36	222	--

Notes

VOC concentrations measured by PID calibrated to 100 ppm iso.

-- Measurement not taken.
in. Hg inches of mercury
SCFM standard cubic feet per minute
ppmv parts per million by volume

[1] Breakthrough of primary GAC vessel occurred based on field measurements. Reported concentration taken prior to swapping fresh vessel into system train.

[2] Values measured between 6/20 and 7/16/07 have been adjusted to accommodate a gauge error.

Table 6-1
Omega Chemical Superfund Site
Summary of Expanded SVE Pilot Test Analytical Data

COMPOUNDS	UNITS	INFLUENT-VE7S-061407*	INFLUENT-VE8S-061507*	INFLUENT-VE7S-061907*	INFLUENT-7S8S-062007*	INFLUENT-7S8S-062707	INFLUENT-7S8S-070307	INFLUENT-7S8S-070607	INFLUENT-7S8S-071107	INFLUENT-7S8S-071807
1,1,1-TRICHLOROETHANE	ppbv	91	650	36	500	4500	3900	5400	4900	5000
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	ppbv	50 U	50 U	3100	4200	1 U	50 U	50 U	50 U	50 U
1,1,2-TRICHLOROETHANE	ppbv	64	50 U	12	160	1 U	320	400	370	330
1,1-DICHLOROETHANE	ppbv	240	400	130	490	2400	1400	1800	1600	1400
1,1-DICHLOROETHENE	ppbv	9400	1700	5800	8500	44000	25000	22000	34000	28000
1,2,4-TRIMETHYLBENZENE	ppbv	50 U	50 U	10 U	10 U	1 U	50 U	50 U	50 U	50 U
1,2-DICHLOROBENZENE	ppbv	50 U	50 U	10 U	10 U	5.2	50 U	50 U	50 U	50 U
1,2-DICHLOROETHANE	ppbv	50 U	260	10 U	210	250	1000	1500	1300	1300
1,3,5-TRIMETHYLBENZENE	ppbv	50 U	50 U	10 U	10 U	1 U	50 U	50 U	50 U	50 U
1,4-DICHLOROBENZENE	ppbv	50 U	50 U	10 U	10 U	3.2	50 U	50 U	50 U	50 U
1,4-DIOXANE	ppbv	50 U	54	10 U	100	480	370	520	550	600
2-BUTANONE	ppbv	50 U	50 U	11	17	5 U	50 U	50 U	50 U	50 U
4-ETHYLTOLUENE	ppbv	50 U	50 U	10 U	10 U	1 U	50 U	50 U	50 U	50 U
ACETONE	ppbv	50 U	50 U	18	24	7.4	50 U	50 U	50 U	50 U
BENZENE	ppbv	50 U	50 U	12	55	64	270	350	340	310
CARBON TETRACHLORIDE	ppbv	50 U	50 U	10 U	70	68	50 U	50 U	50 U	50 U
CHLOROFORM	ppbv	220	270	100	400	3000	2100	2800	2500	2500
CIS-1,2-DICHLOROETHENE	ppbv	50 U	50 U	10 U	14	25	50 U	50 U	50 U	98
DICHLORODIFLUOROMETHANE	ppbv	50 U	50 U	10 U	10 U	1 U	50 U	50 U	50 U	50 U
ISOPROPYL ALCOHOL (ISOPROPANOL)	ppbv	50 U	50 U	10 U	10 U	1 U	50 U	50 U	50 U	50 U
M,P-XYLENES	ppbv	50 U	50 U	10 U	10 U	2 U	50 U	50 U	50 U	50 U
METHYLENE CHLORIDE	ppbv	280	75	10 U	11	52	50 U	240	310	450
O-XYLENE	ppbv	50 U	50 U	10 U	10 U	1 U	50 U	50 U	50 U	50 U
STYRENE	ppbv	50 U	50 U	10 U	10 U	1 U	50 U	50 U	50 U	50 U
TETRACHLOROETHENE	ppbv	29000	25000	2400	46000	510000	360000	310000	500000	480000
TETRAHYDROFURAN	ppbv	82	65	35	61	1 U	190	190	150	150
TOLUENE	ppbv	50 U	50 U	10 U	10	59	50 U	50 U	50 U	50 U
TRANS-1,2-DICHLOROETHENE	ppbv	410	79	240	430	2100	1400	1700	1600	1400
TRICHLOROETHENE	ppbv	3100	1100	810	3600	26000	15000	19000	26000	22000
TRICHLOROFLUOROMETHANE (FREON 11)	ppbv	1700	180	830	1000	1100	2800	3500	2800	2400
VINYL CHLORIDE	ppbv	50 U	50 U	10 U	10 U	1 U	50 U	50 U	50 U	50 U
TOTAL VOCs	**ppbv**	**44,587**	**29,833**	**13,534**	**65,852**	**594,114**	**413,750**	**369,400**	**576,420**	**545,938**

Notes:
ppbv: parts per billion by volume
All samples are analyzed by EPA Method TO-15
U: not detected above the laboratory reporting limit
Samples collected using a possibly malfunctioning flow controller

Table 7-1
Omega Chemical Superfund Site
Operation Summary and Estimated Removal Rates for Expanded SVE Pilot System

Date	System Status	Hours of Operation	Sample COLLECTED	Flow Rate (SCFM)	Flow Rate (SCFD)	Total VOC Conc. (ug/L)	Est. VOC Rem. Rate (lbs/day)	Cum. VOC Removed (lbs)
20-Jun-07	*On*	*4234.1*		*153.00*	*220,320*	*3911.86*	*53.35*	*53.4*
21-Jun-07	*On*	4258.1		*153.00*	*220,320*	*3911.86*	*53.35*	*96*
22-Jun-07	*On*	4277.1		*153.00*	*220,320*	*3911.86*	*53.35*	*138*
23-Jun-07	*Off*	4277.1		*0.00*	*0*	*0.00*	*0.00*	*138*
24-Jun-07	*Off*	4277.1		*0.00*	*0*	*0.00*	*0.00*	*138*
25-Jun-07	*On*	4296.1		*153.00*	*220,320*	*3911.86*	*53.35*	*180*
26-Jun-07	*On*	4315.1		*153.00*	*220,320*	*3911.86*	*53.35*	*222*
27-Jun-07	**On**	**4334.1**	**1**	**153.00**	**220,320**	**3911.86**	**53.35**	**265**
28-Jun-07	On	4353.5		153.00	220,320	3618.49	49.35	305
29-Jun-07	On	4372.8		153.00	220,320	3325.11	45.35	342
30-Jun-07	Off	4372.8		0.00	0	0.00	0.00	342
1-Jul-07	Off	4372.8		0.00	0	0.00	0.00	342
2-Jul-07	On	4392.2		153.00	220,320	3031.74	41.35	375
3-Jul-07	**On**	**4411.5**	**2**	**152.00**	**218,880**	**2738.36**	**37.10**	**394**
4-Jul-07	Off	4411.5		152.00	218,880	0.00	0.00	394
5-Jul-07	On	4423.8		152.00	218,880	2581.98	34.99	412
6-Jul-07	**On**	**4436.0**	**3**	**153.00**	**220,320**	**2425.59**	**33.08**	**436**
7-Jul-07	Off	4436.0		0.00	0	0.00	0.00	436
8-Jul-07	Off	4436.0		0.00	0	0.00	0.00	436
9-Jul-07	On	4453.7		153.00	220,320	2888.61	39.40	465
10-Jul-07	On	4471.3		153.00	220,320	3351.63	45.71	499
11-Jul-07	**On**	**4488.9**	**4**	**152.00**	**218,880**	**3814.65**	**51.69**	**543**
12-Jul-07	On	4509.2		152.00	218,880	3777.19	51.18	586
13-Jul-07	On	4529.5		152.00	218,880	3739.73	50.67	629
14-Jul-07	Off	4529.5		0.00	0	0.00	0.00	629
15-Jul-07	Off	4529.5		0.00	0	0.00	0.00	629
16-Jul-07	On	4549.9		152.00	218,880	3702.27	50.17	671
17-Jul-07	On	4570.2		152.00	218,880	3664.81	49.66	713
18-Jul-07	**On**	**4590.5**	**5**	**155.00**	**223,200**	**3627.35**	**50.12**	**765**
19-Jul-07	On	4615.4		155.00	223,200	3627.35	50.12	817
20-Jul-07	On	4640.3		157.00	226,080	3627.35	50.77	
Operation Summary:				**152.9 (avg.)**	**3,727,325.4 (total)**	**3,541.4 (avg.)**	**48.3 (avg.)**	**817 (total)**

Notes

Values in italics are estimated based on June 27, 2007 data.

lbs	pounds
SCFD	standard cubic feet per day
SCFM	standard cubic feet per minute
ug/L	microgram per liter

Appendix A
Boring/Well Construction Logs

CDM
18581 Teller Avenue, Suite 200
Irvine, CA 92612
(949) 752-5452
(949) 752-1307 (FAX)

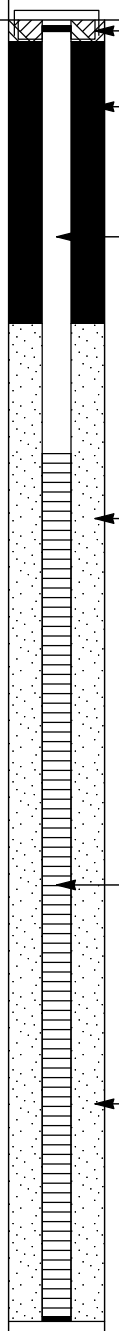
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240
PROJECT NAME Omega Chemical
LOCATION Omega/Star City Auto
DRILLING METHOD Hollow Stem Auger
SAMPLING METHOD Modified CA-Split Spoon (No Sleeves)
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY N.Begay
REMARKS PID calibrated to 100 ppm Hexane.

BORING/WELL NUMBER SVE-6S
DATE DRILLED 5/20/07
CASING TYPE/DIAMETER 4" Sch 40 PVC
SCREEN TYPE/SLOT 4" Sch 40 PVC 0.020 Slot
GRAVEL PACK TYPE #3 Monterey Sand
GROUT TYPE/QUANTITY Hydrated Medium Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC) NM
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								9" concrete. Hand auger to 5 feet below ground surface.	0.5
						ML		SILT: Very dark greyish brown (10 YR 3/2); 85% silt, very soft, low toughness; trace of cobbles.	
3.6	10, 10, 14	21			5			SILT WITH CLAY: Dark yellowish brown (10YR 4/4); 60% Silt; 30% Clay, soft; 10% gravel.	5.0
3.5									
20.3	-	18				ML			
49.4	11,12, 17,17	18							
622	9,11,14	18			10			SILT: Brown 10YR 4/3 ; 75% Silt, low plasticity, firm; 20% sand; 5% Clay.	10.0
311	11,13,16	18				ML			
-	12,14, 16,17	21							
						SP			14.5
85.3	-	12			15	SM		SAND WITH SILT AND GRAVEL: Brown (10YR 4/3); 70% sand, fine to coarse; 10% gravel, maximum diameter up to 1-inch.	15.0
-	-	18						CLAY: Dark yellowish brown (10YR 4/4); 85% Clay, low plasticity, firm; 10% Silt; 5% Sand, fine.	
-	9,12, 15,18	21							
533	12,16, 18	15			20	CL		CLAY: Same as above.	
157	-	18							
6.7	-	24							
95.4	7,10, 13	18			25				
									26.5
96.1	9,13, 15,15	18						Gravel lens	27.0
						CL		CLAY WITH SILT: Dark yellowish brown (10YR 4/4); 60% clay; 30% silt; 10% gravel.	
128	9,14, 16,18	24							28.5
								Gravel lens	29.0
138						CL		CLAY SILT WITH: Dark yellowish brown (10YR 4/4); 65% clay; 30% silt; 5% gravel.	30.0
					30			Total Depth of Borehole is 30 feet below ground surface.	

WELL DIAGRAM



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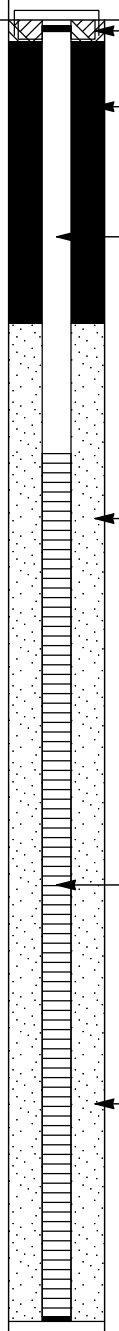
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240
BORING/WELL NUMBER SVE-7S
ROJECT NAME Omega Chemical
DATE DRILLED 5/20/07
LOCATION Omega/Star City Auto
CASING TYPE/DIAMETER 4" Sch 40 PVC
DRILLING METHOD Hollow Stem Auger
SCREEN TYPE/SLOT 4" Sch 40 PVC 0.020 Slot
SAMPLING METHOD Modified CA-Split Spoon (No Sleeves)
GRAVEL PACK TYPE #3 Monterey Sand
GROUND SURFACE ELEVATION (FT MSL) NA
GROUT TYPE/QUANTITY Hydrated Medium Bentonite Chips
TOP OF CASING ELEVATION (FT MSL) NA
STATIC WATER LEVEL (FT BELOW TOC) NM
LOGGED BY N.Begay
GROUND WATER ELEVATION (FT MSL)
REMARKS PID calibrated to 100 ppm Hexane.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								Concrete to 6" below ground surface (bgs). Hand auger to 5 ft bgs.	0.5
30.6									
39.6									
15.5									
0.6	7,8, 11	18			5			SILT WITH CLAY: Dark brown (10YR3/3); 70% silt, low plasticity, firm; 30% clay.	5.0
0	8,11, 14	21						SILT WITH CLAY: Dark brown (10YR3/3); 80% silt, low plasticity, firm; 20% clay; trace of gravel.	
4.6	6,9, 10,12	18				ML			
0	8,9, 11	18			10				
0	7,10, 12	18						SILT WITH CLAY: Same as above, except 5% gravel.	
0	6,10, 13,16	24						SILT WITH CLAY: Same as above, except 80% silt; 20% clay.	
									14.5
0	7,11, 17	18			15	CL		GRAVELLY CLAY: 65% clay; 20% gravel, maximum diameter up to 2-inch; 15% silt.	
0	8,12, 14	18							
									18.0
0	6,11, 14,14	21				CL		CLAY WITH SILT: 80% clay; 20% silt; 5% sand.	
0	9,11, 15	18			20				20.5
						CL		GRAVELLY CLAY: 10YR5/3 Brown; 80% silt; 20% gravel, maximum diameter up to 1.5-inch; 10% Silt.	21.5
0	7,13, 15	18				CL		CLAY: 10YR4/3 Brown; 90% Clay, firm, low plasticity; 10% Silt.	
									23.0
33.6	6,9, 13,15	24						SILT WITH CLAY: 10YR4/3 Brown; 70% silt; 30% clay.	
88.2	7,11, 13	18			25				
-	-	18				ML			
20.3	10,10, 13,17	18							
									30.0
		24			30			Total Depth of Borehole is 30 feet below ground surface.	

WELL DIAGRAM



NEWGINT OMEGA.GPJ NEWGINT.GDT 6/13/07

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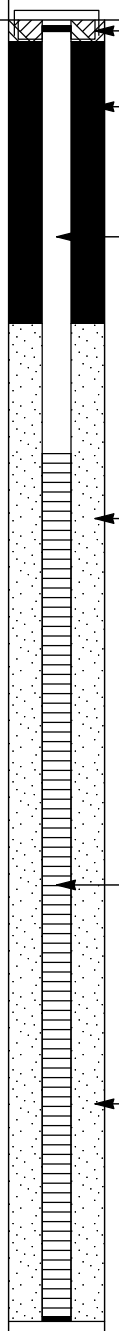
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240
PROJECT NAME Omega Chemical
LOCATION Omega/Star City Auto
DRILLING METHOD Hollow Stem Auger
SAMPLING METHOD Modified CA-Split Spoon (No Sleeves)
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY N. Begay
REMARKS PID calibrated to 100 ppm Hexane.

BORING/WELL NUMBER SVE-8S
DATE DRILLED 5/20/07
CASING TYPE/DIAMETER 4" Sch 40 PVC
SCREEN TYPE/SLOT 4" Sch 40 PVC 0.020 Slot
GRAVEL PACK TYPE #3 Monterey Sand
GROUT TYPE/QUANTITY Hydrated Medium Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC) NM
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							Concrete to 6" below ground surface (bgs). Hand auger to 5 ft bgs.	0.5
44.7							SILT: Very dark greyish brown (10YR3/3); 95% silt, medium plasticity, soft; 5% sand, fine.	
6.2							SILT: Dark yellow brown (10YR4/4); 80% silt, soft; 15% clay; 5% sand, fine.	
2.3	40	6			5	ML		
4.2	8,10, 11,12	24					SILT: Same as above, except trace gravel.	
4.7	10,12, 15	18					SILT: Dark yellow brown (10YR4/4); 70% silt; 15% clay; 15% gravel.	
364	8,10, 12	18			10			
						CL	CLAY lens	11.5 / 12.0
6.3	9,10, 10,2	24				ML	SILT: Dark yellow brown (10YR4/4); 80% silt; 15% clay; 5% sand, fine; trace of gravel, maximum diameter to 2-inches, angular to subrounded.	
3.3	7,8,14	18					SILT WITH GRAVEL: 65% silt; 20% gravel; 10% clay; 5% sand.	14.0
5.3	10,12, 15,18	18			15	SP SM		
34.2	9,14,15	24				ML	SILT WITH CLAY: 70% silt; 25% clay; 5% sand, fine.	16.5
						SP SM	SILT WITH GRAVEL: 65% silt; 20% gravel, maximum diameter up to .75 inches; 10% clay; 5% sand.	18.0 / 18.5
22.7	8,11, 14	18				ML	SILT WITH CLAY: 70% silt; 25% clay; 5% sand, fine.	
8.1	8,11, 14,17	18			20			21.0
						SP SM	SILT WITH GRAVEL: 65% silt; 20% gravel, maximum diameter up to .75 inches; 10% clay; 5% sand.	21.5
12.4	-	24					SILT WITH CLAY: 70% silt, firm; 25% clay; 5% sand, fine; trace of gravel.	
7.7	-	18						
-	-	18			25	ML		
12.4	-	18						
7.7	10,10, 12,15	24					SILT WITH CLAY: Dark yellow brown (10YR4/4); 85% silt, low plasticity, firm; 20% clay; 5% sand, fine.	
					30		Total Depth of Borehole is 30 feet below ground surface.	30.0

WELL DIAGRAM



NEWGINT OMEGA.GPJ NEWGINT.GDT 6/13/07

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP
BORING/WELL NUMBER VMP-1
PROJECT NAME Omega Chemical
DATE DRILLED 6/6/07
LOCATION FORMER 3 KINGS
CASING TYPE/DIAMETER 1.0" PVC
DRILLING METHOD Direct Push
SCREEN TYPE/SLOT 0.02
SAMPLING METHOD Macrocore
GRAVEL PACK TYPE #3 Monterey Sand
GROUND SURFACE ELEVATION (FT MSL) NA
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
TOP OF CASING ELEVATION (FT MSL) NA
STATIC WATER LEVEL (FT BELOW TOC) NM
LOGGED BY Dane Nicklaus
GROUND WATER ELEVATION (FT MSL)
REMARKS Boring was sampled for lithology using a 4-foot macrocore. Finished with a Traffic Rated Well Box.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								CONCRETE is 6 inches below ground surface.	0.5
								SILT, SILTY SAND: brown, darkish brown; hand cleared	
1.3		46			5	SM		SILTY SAND: brown, light brown	
1.5		44						SILTY SAND: light brown	
					10				11.0
						ML		SANDY SILT: light brown	
1.3		46						SANDY SILT, SILT: brown	
								SILT: brown, light brown	14.0
					15	ML			
0.6		46							17.0
						CL		CLAY WITH GRAVEL: brown	18.0
						CL		CLAY, SILTY CLAY: brown	20.0
1.1		40			20			CLAYEY SILT, SILT: brown, reddish brown	
0.5		46			25	ML		SILT: brown, light brown	28.0
1.5		24						SANDY SILT, SILT: brown	
					30	ML			

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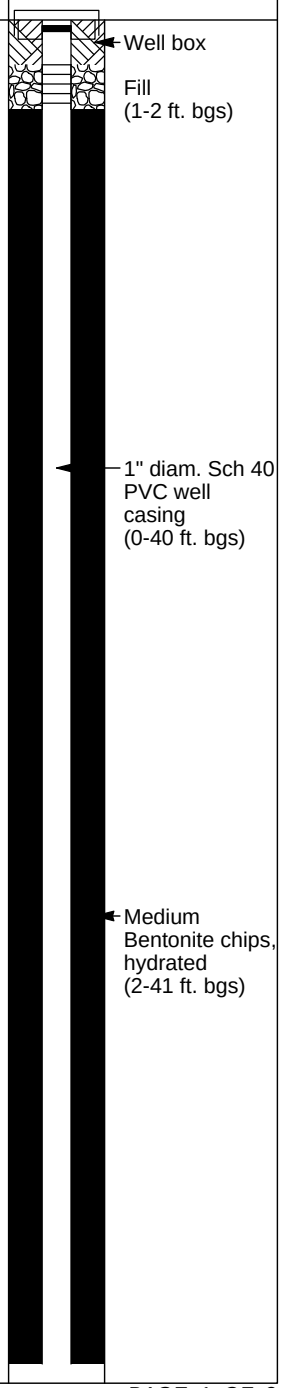

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP **BORING/WELL NUMBER** VMP-1
PROJECT NAME Omega Chemical **DATE DRILLED** 6/6/07

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								SILT: brown, very stiff	31.0	
								SILT: brown, very stiff		Medium Bentonite chips, hydrated (2-41 ft. bgs)
2.6		46								
					35	ML				
5		46								
								CLAY SILT: brown		#3 Monterey Sand (37-45 ft.bgs)
									39.0	
								SILT WITH GRAVEL: brown, light brown; gravel up to 3/4 in.		
5		30			40	ML				
									41.0	
								SILT: light brown		
						ML				1" diam. Sch 40 PVC 0.020" slot (40-45 ft. bgs)
6		12						CLAY SILT, SILT: brown, light brown		
					45				45.0	
								Total depth of borehole is 45 feet below ground surface.		
					50					
					55					
					60					

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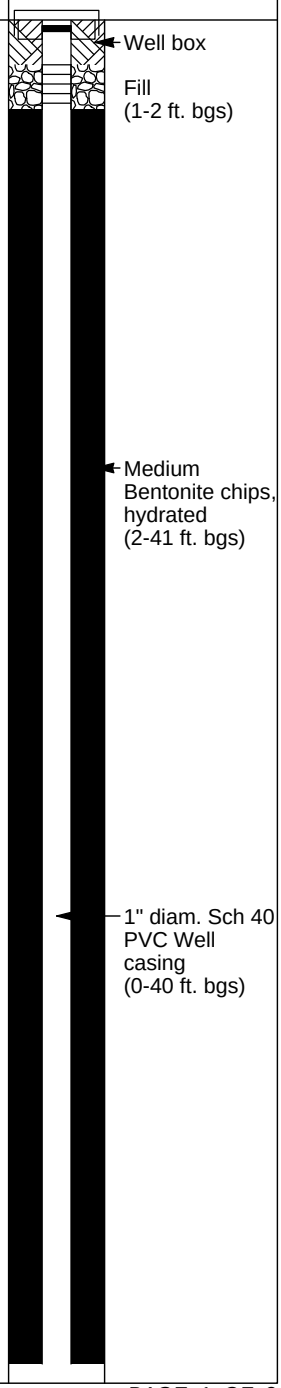
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP
BORING/WELL NUMBER VMP-2
PROJECT NAME Omega Chemical
DATE DRILLED 6/6/07
LOCATION FORMER 3 KINGS
CASING TYPE/DIAMETER 1.0" PVC
DRILLING METHOD Direct Push
SCREEN TYPE/SLOT 0.02
SAMPLING METHOD Macrocore
GRAVEL PACK TYPE #3 Monterey Sand
GROUND SURFACE ELEVATION (FT MSL) NA
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
TOP OF CASING ELEVATION (FT MSL) NA
STATIC WATER LEVEL (FT BELOW TOC) NM
LOGGED BY Dane Nicklaus
GROUND WATER ELEVATION (FT MSL)
REMARKS Boring was sampled for lithology using a 4-foot macrocore. Finished with a Traffic Rated Well Box.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
							CONCRETE to 6 inches below ground surface.	0.5
						SM	SAND, SILTY SAND: brown, darkish brown, hand cleared	5.0
--		46			5	SM	SILTY SAND: brown, light brown	11.0
--		44			10		SILTY SAND: light brown	
						ML	SANDY SILT: light brown	14.0
--		46					SANDY SILT, SILT: brown	
					15	ML	SILT: brown, light brown	17.0
--		46				CL	CLAY WITH GRAVEL: brown	18.0
						CL	CLAY, SILTY CLAY: brown	
--		40			20		CLAY SILT, SILT: brown, reddish brown	
--		46			25		SILT: brown, light brown	28.0
--		24				ML	SANDY SILT, SILT: brown	
					30			



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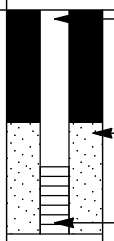
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP **BORING/WELL NUMBER** VMP-2
PROJECT NAME Omega Chemical **DATE DRILLED** 6/6/07

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
--		46				ML		SANDY SILT, SILT: brown SILT: brown, very stiff	31.0	1" diam. Sch 40 PVC Well casing (0-40 ft. bgs) #3 Monterey Sand (32.5-35 ft.bgs)
					35			Total depth of borehole is 35 feet bgs.	35.0	1" diam. Sch 40 PVC 0.020" slot (33.5-35 ft. bgs)



40
45
50
55
60

NEWGINT OMEGA.GPJ NEWGINT.GDT 6/20/07

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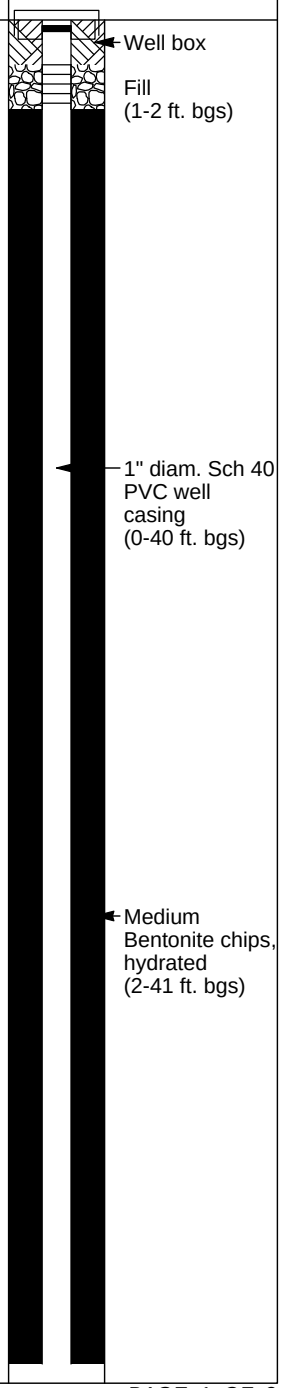
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP
BORING/WELL NUMBER VMP-3
PROJECT NAME Omega Chemical
DATE DRILLED 6/6/07
LOCATION FORMER 3 KINGS
CASING TYPE/DIAMETER 1.0" PVC
DRILLING METHOD Direct Push
SCREEN TYPE/SLOT 0.02
SAMPLING METHOD Macrocore
GRAVEL PACK TYPE #3 Monterey Sand
GROUND SURFACE ELEVATION (FT MSL) NA
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
TOP OF CASING ELEVATION (FT MSL) NA
STATIC WATER LEVEL (FT BELOW TOC) NM
LOGGED BY Dane Nicklaus
GROUND WATER ELEVATION (FT MSL)
REMARKS Boring was sampled for lithology using a 4-foot macrocore. Finished with a Traffic Rated Well Box.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								CONCRETE is 6 inches below ground surface (bgs). Hand cleared to 5 ft. bgs.	0.5
						ML		SILT: brown	
1.3		46			5				5.0
						ML		SANDY SILT: brown, light brown, gravels	
1.5		44							
					10				10.0
						ML		SILT: light brown	
1.3		46							
						ML		SILT: brown	
					15				
0.6		46							
									18.0
						CL		CLAY SILT: brown with gravels	
1.1		40			20				
								CLAY SILT: brown	
									23.0
						ML		SILT: brown stiff	
0.5		46			25				
									28.0
1.5		24				ML		SANDY SILT: brown, stiff	
									29.0
								CLAY SILT: brown, reddish brown	
					30				



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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP **BORING/WELL NUMBER** VMP-3
PROJECT NAME Omega Chemical **DATE DRILLED** 6/6/07

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						CL		CLAY SILT: brown, stiff	32.0	
2.6		46						SILT: brown, very stiff		Medium Bentonite chips, hydrated (2-41 ft. bgs)
					35					
5		46								
						ML		SILT: brown		#3 Monterey Sand (37-45 ft.bgs)
					40					
5		30								1" diam. Sch 40 PVC 0.020" slot (40-45 ft. bgs)
									44.0	
6		12				CL		CLAY SILT: brown, stiff	45.0	
					45			Total depth of borehole is 45 feet below ground surface.		
					50					
					55					
					60					

NEWGINT OMEGA.GPJ NEWGINT.GDT 6/20/07

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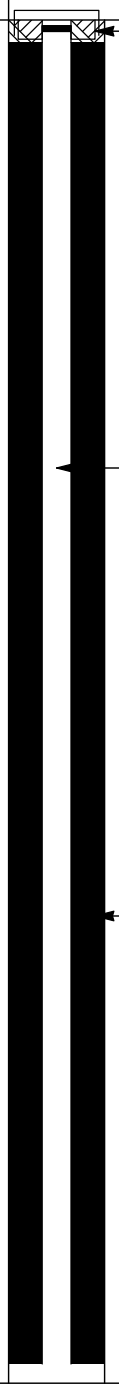
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP
PROJECT NAME Omega Chemical
LOCATION Omega/Star City Auto
DRILLING METHOD Direct Push
SAMPLING METHOD Macrocore
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY Chad Marvin
REMARKS

BORING/WELL NUMBER VMP-4
DATE DRILLED 6/10/07
CASING TYPE/DIAMETER 1.0" PVC
SCREEN TYPE/SLOT 0.02
GRAVEL PACK TYPE #3 Monterey Sand
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC) NM
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
11.2								8" concrete below ground surface (bgs).	0.6
						ML		SILT: (7.5YR 4/6) Strong brown; 85 % silt, soft, non-plastic; 10% sand, poorly graded, fine, subangular to subrounded; 5% gravel, poorly graded, fine, subangular to subrounded, maximum diameter to 1/3-inch.	5.0
8.3					5	ML		SILT WITH GRAVEL: (10YR 4/6) Dark yellowish brown; 75% silt, soft, non-plastic; 20% gravel, poorly graded, coarse, maximum diameter to 1-inch, cored rock, subangular to subrounded; 5% sand, poorly graded, medium to coarse, subangular to subrounded.	9.0
8.2					10	ML		SILT: (10YR 4/6) Dark yellowish brown; 90 % silt, soft, non-plastic; 10% sand, poorly graded, fine, subangular to subrounded.	
9.6					15	ML		SILT: (10YR 4/4) Dark yellowish brown; 70 % silt, soft, non-plastic; 10% sand, poorly graded, fine to medium, subangular to subrounded; 10% clay, soft, low plasticity; 10% gravel, poorly graded, fine, trace of medium, maximum diameter to 3/4-inch.	
					20				21.0
2.1						CL		CLAY: (10YR 3/2) Very dark grayish brown; 90% clay, soft, medium plasticity; 10% silt, soft; trace of sand, poorly graded, coarse, subangular to subrounded.	
					25				26.0
0.3						ML		SILT WITH CLAY: (10YR 3/2) Very dark grayish brown; 60 % silt, soft, low plasticity; 35% clay, soft, low plasticity; 5% gravel, poorly graded, fine, subangular to subrounded, maximum diameter to 1/3-inch.	
					30				

WELL DIAGRAM



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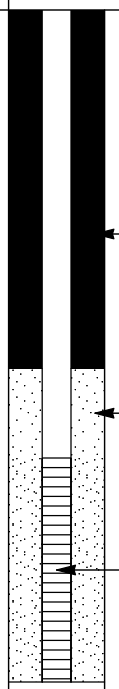
(949) 752-1307 (FAX)

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP **BORING/WELL NUMBER** VMP-4
PROJECT NAME Omega Chemical **DATE DRILLED** 6/10/07

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
0.6 0.2						SP		SAND WITH GRAVEL: (10YR 4/4) Dark yellowish brown; 60% sand, poorly graded, fine to medium, subangular to subrounded; 30% gravel, poorly graded, fine, subangular to subrounded, maximum diameter to 1/2-inch; 10% silt, soft.	31.0 31.5
					35	ML		SILT: (10YR 3/3) Dark brown; 90 % silt, firm, non-plastic; 10% clay, firm, non-plastic; trace of gravel, poorly graded, subrounded, maximum diameter to 1/4-inch.	36.5
0.3					40	CL		CLAY WITH SILT: (10YR 4/3) Brown; 60% clay, soft, low plasticity; 40 % silt, soft; trace of sand, poorly graded, medium, subangular to subrounded.	43.0
0.2 0.2					45	SP CL		SAND WITH SILT: (10YR 4/6) Dark yellowish brown; 75% sand, poorly graded, fine to medium, subangular to subrounded; 15% gravel, poorly graded, fine, subangular to subrounded, maximum diameter to 1/3-inch; 10% silt, soft.	43.5
								CLAY WITH SILT: (10YR 3/3) Dark brown; 60% clay, firm, low plasticity; 35% silt, firm; 5% sand, poorly graded, fine, subangular to subrounded.	45.0
					50			Total depth of borehole is 45 feet below ground surface.	
					55				
					60				



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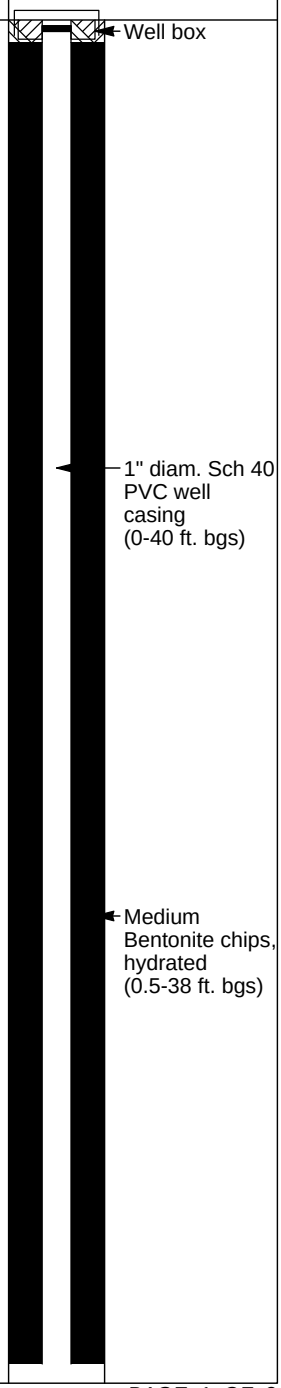
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP
PROJECT NAME Omega Chemical
LOCATION Omega/Star City Auto
DRILLING METHOD Direct Push
SAMPLING METHOD Macrocore
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY Chad Marvin
REMARKS

BORING/WELL NUMBER VMP-5
DATE DRILLED 6/10/07
CASING TYPE/DIAMETER 1.0" PVC
SCREEN TYPE/SLOT 0.02
GRAVEL PACK TYPE #3 Monterey Sand
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC) NM
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								5" concrete below ground surface (bgs).	0.5
								SILT: (7.5YR 3/2) Dark brown; 90 % silt, soft, non-plastic; 10% sand, poorly graded, fine to medium, subangular to subrounded.	
1.3					5			SILT: (10YR 5/6) Yellowish brown; 85 % silt, soft, non-plastic; 10% gravel, poorly graded, fine to medium, maximum diameter to 1-inch.	
1.5						ML		SILT: (10YR 4/6) Dark yellowish brown; 95 % silt, soft, non-plastic; 5% sand, poorly graded, fine, subrounded; trace of gravel, poorly graded, fine, maximum diameter to 1/3-inch.	
					10				
1.3									
					15				
0.6									17.0
						ML		SILT WITH GRAVEL: (10YR 3/6) Dark yellowish brown; 80 % silt, soft; 15% gravel, poorly graded, fine, subrounded to subangular, maximum diameter to 1/2-inch; 5% sand, poorly graded, medium to coarse, subangular to subrounded.	
1.1					20				21.0
								SILT: (10YR 3/3) Dark brown; 95 % silt, soft, low plasticity; 5% clay, soft, low plasticity; trace gravel, fine, subrounded, maximum diameter to 1/3-inch.	
0.5					25	ML		SILT: (10YR 3/3) Dark brown; 90% silt, soft, medium plasticity; 10% clay, soft, medium plasticity.	
1.5					30				30.0



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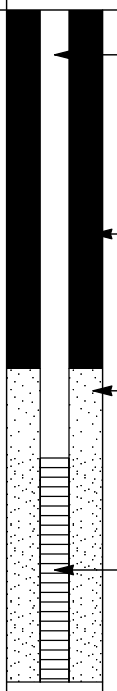
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP **BORING/WELL NUMBER** VMP-5
PROJECT NAME Omega Chemical **DATE DRILLED** 6/10/07

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								SILT: (10YR 3/3) Dark brown; 95 % silt, very firm, non-plastic; 5% sand, poorly graded, coarse, subrounded.	
2.6								SILT: (10YR 3/3) Dark brown; 90 % silt, soft, medium plasticity; 10% clay, soft, medium plasticity.	
					35				
5						ML		SILT: (10YR 3/4) Dark yellowish brown; 100% silt, soft, low plasticity; trace sand, poorly graded, medium to coarse, subrounded.	
5					40				
6									45.0
					45			Total depth of borehole is 45 feet below ground surface.	
					50				
					55				
					60				

WELL DIAGRAM



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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP
PROJECT NAME Omega Chemical
LOCATION Omega/Star City Auto
DRILLING METHOD Direct Push
SAMPLING METHOD Macrocore
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY Chad Marvin
REMARKS

BORING/WELL NUMBER VMP-6
DATE DRILLED 6/10/07
CASING TYPE/DIAMETER 1.0" PVC
SCREEN TYPE/SLOT 0.02
GRAVEL PACK TYPE #3 Monterey Sand
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC) NM
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								5" concrete below ground surface (bgs).	0.5
						ML		SILT: (7.5YR 3/2) Dark brown; 95 % silt, soft, slight plasticity; 5% clay, soft, low plasticity.	5.0
1.3					5	SP		SAND WITH SILT: (10YR 5/4) Yellowish brown; 80 % sand, poorly graded, fine to medium, subangular to subrounded; 10% gravel, poorly graded, fine, maximum diameter to 1/2-inch; 10% silt, soft, non-plastic.	10.0
1.5					10	SM		SILTY SAND WITH GRAVEL: (10YR 5/6) Yellowish brown; 50% sand, poorly graded, fine to medium; 25% silt, soft, low plasticity; 15% gravel, poorly graded, fine, subangular to subrounded, maximum diameter to 4/4-inch; 10% clay.	16.0
1.3					15				
0.6						ML		SILT: (10YR 4/2) Dark grayish brown; 85 % silt, soft, low plasticity; 10% sand, poorly graded, fine, subangular to subrounded; 5% gravel, poorly graded, fine, subangular to subrounded, maximum diameter to 1/2-inch.	
1.1					20			SILT: (10YR 3/4) Dark yellowish brown; 90 % silt, soft, low plasticity; 10% clay, soft, low plasticity; trace sand, poorly graded, fine, subangular to subrounded.	
0.5					25				
1.5					30			SILT: (7.5YR 3/2) Dark brown; 95% silt, firm, non-plastic; 5% clay, soft, low plasticity; trace sand, poorly graded, fine, subangular to subrounded.	30.0

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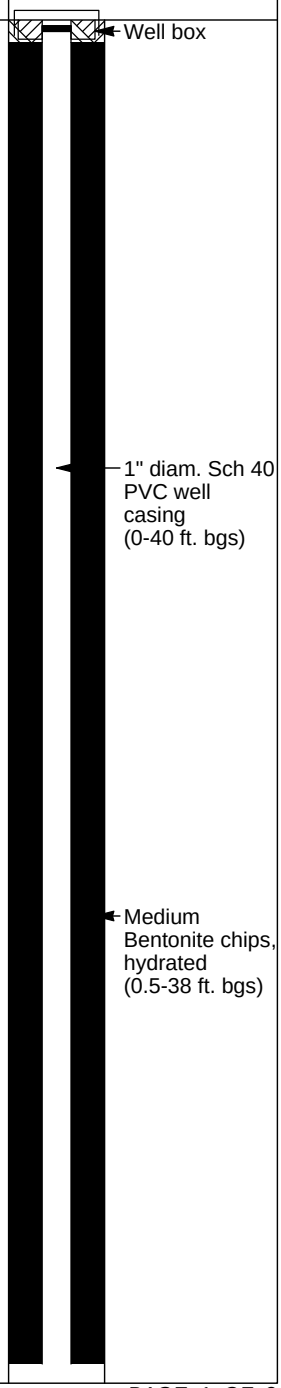

WELL DIAGRAM

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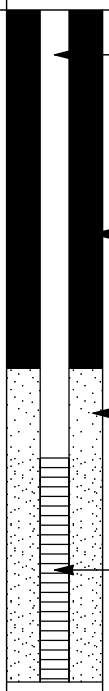
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.SVEOP **BORING/WELL NUMBER** VMP-6
PROJECT NAME Omega Chemical **DATE DRILLED** 6/10/07

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
2.6								SILT: Same as above, except; trace gravel, poorly graded, fine, subrounded, maximum diameter to 1/3-inch.		1" diam. Sch 40 PVC well casing (0-40 ft. bgs)
					35					
5						ML		SILT: (7.5YR 4/4) Brown; 95 % silt, soft, non-plastic; 5% sand, poorly graded, fine, subrounded.		Medium Bentonite chips, hydrated (0.5-38 ft. bgs)
5					40					#3 Monterey Sand (38.5-45 ft.bgs)
6										1" diam. Sch 40 PVC 0.020" slot (40-45 ft. bgs)
					45			Total depth of borehole is 45 feet below ground surface.	45.0	
					50					
					55					
					60					



NEWGINT OMEGA.GPJ NEWGINT.GDT 6/20/07

Appendix B
Field Procedures and Results

Appendix B

B.1 Pneumatic Communication Test

The first phase of the expanded SVE pilot test at the Site was conducted on June 14, 2007 to determine if pneumatic communication would occur through the 30-foot unit.

Baseline Measurements

Baseline vacuum measurements and PID/FID readings were taken at each of the six new vapor monitoring probes (VMP-1 through VMP-6) and the three new SVE wells on the Star City Auto Body property (VE-6S through VE-8S). All baseline vacuum measurements were found to be at the lower detection limit of the handheld vacuum gauge and are considered to be a non-detect of vacuum under ambient conditions.

Prior to taking PID and FID readings, existing vapors in the VMPs and SVE wells were purged using a portable pump. One full purge volume was extract from the VMPs; however, due to the size of the SVE wells, a full purge volume could not be extracted. The data indicated that the highest influent VOC concentration would be detected during operation of well VE-7S, which is located in the suspected source area. The full results from the baseline measurements can be found in Table B-1.

Pneumatic Communications Test

A pneumatic communications test was performed by operating the liquid ring pump at a single well to determine whether or not a vacuum response would be observed in the VMPs, which are screened in or beneath the 30-foot unit. Three shallow wells in the Star City Auto Body property (VE-6S through VE-8S) and one shallow well in the 3 Kings property (VE-4S) were chosen for operation.

In all tests, a measurable vacuum was observed in more than one of the deep VMPs. The response at the closest deep VMP was significant and instantaneous. Detections at outlying VMPs were typically near the lower detection limit of the handheld gauge (0.030 to 0.040 in. H_2O range). With an applied vacuum of 12 in. Hg at VE-4S in the 3 Kings lot, a vacuum of 1.6 and 1.9 in. H_2O was observed at VMP-1 and VMP-2, respectively (both of which are considered "adjacent" at a distance of approximately 8 ft from the operating well). 0.45 in. H_2O of water was measured at VMP-3 which was approximately 30 feet away.

The instantaneous, strong vacuum response observed during the testing presents strong evidence that pneumatic communication occurs across the 30-foot unit. This result indicates that shallow soils remediated via SVE may become re-contaminated by vapors transported from deep vadose zone soils through the 30-foot layer.

B.2 Single Well Step Tests and Transient Tests

The second phase of the expanded SVE pilot test was conducted from June 15, 2007 to June 19, 2007. This phase consisted of step tests at each of the new SVE wells VE-6S

through VE-8S to determine the ROI. Transient tests were performed to allow for calculations of intrinsic permeability of the soil.

The summary of the phase 2 test procedure and results are discussed in the following paragraphs. Data from these step tests are presented in Table B-2 through B-4.

VE-8S Step Test

Overview The step test for VE-1S lasted approximately 7.5 hours, starting at 8:24 and ending at 15:50 on June 15, 2007. Subsurface pressure was measured in the VMPs and non-operating SVE wellheads to estimate the ROI. During the test, VOC concentrations at the influent, outlet, and effluent streams of the GAC units were recorded periodically. The results are included in Table B-2.

Step Test The liquid ring pump was connected to well VE-8S and was started at 8:24. For the first step, the blower was adjusted until a vacuum of 6 in. Hg was achieved at the wellhead. The initial flow rate was 76 SCFM and increased to 108 SCFM within the duration of the first step. Subsurface pressure was recorded to estimate the ROI; these values ranged from 0.005 inch of water (in. H_2O) at VMP-3 to 1.664 in. H_2O at VMP-6 (adjacent to operating well). Vacuum readings generally increased throughout the duration of the step. The vacuum readings from VMP-3 were at the handheld gauge's lower measurement limit and indicated a non-detect of vacuum response.

For the second step, the liquid ring pump was opened to allow for maximum vacuum on well VE-8S. Vacuum increased to 8 in. Hg at the wellhead. The initial flow rate was 125 SCFM and increased to 145 SCFM within the duration of the second step. Subsurface pressure readings at the non-operating wellheads ranged from 0.019 in. H_2O at VMP-3 to 2.16 in. H_2O at VMP-6. The vacuum readings from VMP-3 were at the handheld gauge's lower measurement limit and indicated a non-detect of vacuum response.

Due to an operational constraint at the liquid ring pump, further vacuum could not be applied at the wellhead. As a result, the applied vacuum was reduced for the third step. The wellhead vacuum pressure was reduced to 4 in. Hg at the wellhead while a vacuum of 19 in. Hg was recorded at the pump. The initial flow rate was 91 SCFM and increased to 93 SCFM within the duration of the third step. Subsurface pressure readings at the non-operating wellheads ranged from 0.007 in. H_2O at VMP-3 to 1.6 in. H_2O at VMP-6. The vacuum readings from VMP-3 were at the handheld gauge's lower measurement limit and indicated a non-detect of vacuum response. Vacuum measurements taken at each shallow well versus the applied vacuum at the each step is illustrated in Figure B-2.

PID and FID measurements were taken at the GAC influent, outlet (the sample port in between the two GAC units), and the discharge (effluent) streams to ensure that the system was operating within the SCAQMD permit requirements. A maximum VOC detection of 407 ppmv (PID) was recorded for the influent stream. Soil vapor samples from each stream were collected in 1-liter Summa canisters for laboratory analysis.

VE-6S Test

Overview The step test for VE-6S lasted approximately 7 hours, starting at 8:45 and ending at 15:35 on June 18, 2006. Subsurface pressure was measured in the vapor monitoring probes and non-operating wellheads to estimate the ROI. During the test, VOC concentrations at the influent, outlet, and effluent streams of the GAC units were recorded periodically. The results are included in Table B-3.

Step Test For the first step, the blower was adjusted until a vacuum of 4 in. Hg was achieved at the wellhead. The initial flow rate was 111 SCFM and increased to 113 SCFM within the duration of the first step. Subsurface vacuum was recorded to estimate the ROI; these values ranged from 0.004 in. H_2O at VMP-1 to 1.49 in. H_2O at well VMP-4 (adjacent to operating well). The vacuum readings from the three outlying VMPs in the 3 Kings property (VMP-1 through VMP-3) were at the handheld gauge's lower measurement limit and indicated a non-detect of vacuum response.

The second step began by increasing the wellhead vacuum to 6 in. Hg. A flow rate of 145 SCFM was maintained over the course of the step. Subsurface vacuum readings ranged from 0.007 in. H_2O at VMP-3 to 1.85 in. H_2O at VMP-4. The vacuum readings from VMP-3 were at the handheld gauge's lower measurement limit and indicated a non-detect of vacuum response.

Due to an operational constraint at the liquid ring pump, further vacuum could not be applied at the wellhead. As a result, the applied vacuum was reduced for the third step. Vacuum decreased to 2.5 in. Hg at the wellhead. The flow rate remained at 87 SCFM throughout the step. Subsurface pressure readings at the non-operating wellheads ranged from 0.002 in. H_2O at VMP-3 to 1.15 in. H_2O at VMP-4. The vacuum readings from the three outlying VMPs in the 3 Kings property (VMP-1 through VMP-3) were at the handheld gauge's lower measurement limit and indicated a non-detect of vacuum response. Vacuum measurements taken at each shallow well versus the applied vacuum at the each step is illustrated in Figure B-3.

PID and FID measurements were taken at the GAC influent, outlet, and effluent streams to ensure that the system was operating within the SCAQMD permit requirements. A maximum VOC detection of 182 ppmv (PID) was recorded for the influent stream. Soil gas samples from each stream were collected in 1 liter Summa canisters for laboratory analysis.

VE-7S Step Test

Overview The step test for VE-7S lasted approximately 5.5 hours, starting at 10:10 and ending at 15:40 on June 19. 2007. Subsurface pressure was measured in the VMPs and non-operating wellheads to estimate the ROI. During the test, VOC concentrations at the influent, outlet, and effluent streams of the GAC units were recorded periodically. The results are included in Table B-4.

Step Test For the first step, the blower was adjusted until a vacuum of 7 in. Hg was achieved at the wellhead. The initial flow rate was 95.5 SCFM and increased to 101 SCFM within the duration of the first step. Subsurface vacuum was recorded to estimate the ROI; these values ranged from 0.003 in. H_2O at VMP-3 to 1.17 in. H_2O at well VMP-5 (adjacent to operating well). The vacuum readings from VMP-3 were at the handheld gauge's lower measurement limit and indicated a non-detect of vacuum response.

The second step began by increasing the wellhead vacuum pressure to 8 in. Hg with a corresponding pressure of 16 in. Hg measured at the pump. The initial flow rate was 150 SCFM and increased to 160 SCFM within the duration of the step. Subsurface vacuum pressure readings ranged from 0.003 in. H_2O at VMP-3 to 1.65 in. H_2O at VMP-5. The vacuum readings from VMP-3 were at the handheld gauge's lower measurement limit and may indicate a non-detect of vacuum response.

Due to an operational constraint at the liquid ring pump, further vacuum could not be applied at the wellhead. As a result, the applied vacuum was reduced for the third step. Vacuum decreased to 3 in. Hg at the wellhead. The flow rate remained at 85 SCFM throughout the step. Subsurface pressure readings at the non-operating wellheads ranged from 0.005 in. H_2O at VMP-3 to 0.9 in. H_2O at VMP-5. The vacuum readings from VMP-3 were at the handheld gauge's lower measurement limit and indicated a non-detect of vacuum response. Vacuum measurements taken at each shallow well versus the applied vacuum at the each step is illustrated in Figure B-4.

PID and FID measurements were taken at the GAC influent, outlet, and effluent streams to ensure that the system was operating within the SCAQMD permit requirements. A maximum VOC detection of 610 ppmv (PID) was recorded for the influent stream. Soil gas samples from each stream were collected in 1-liter Summa canisters for laboratory analysis.

Transient Tests

Transient tests were conducted at both the former 3 Kings lot and the Star City Auto Body property. For these tests, a given SVE well was operated under maximum applied vacuum while a nearby VMP or SVE well was monitored for vacuum changes over time. Transient test data (collected from operations at SVE wells VE-5S and VE-7S) are displayed in Figures B-1 through B-3. The steep curve in the initial phase of the transient test highlights the immediate and substantial vacuum response experienced during SVE operation. Additionally, each graph shows an asymptotic region beginning near the 600s mark, suggesting that system approaches near-equilibrium conditions within 10 minutes of operation.

B.3 Continuous System Testing

Between June 20 and July 20, 2007, the SVE system was operated continuously. This portion of the test was intended to define the VOC mass removal time trend in extracted vapor and define the vacuum distribution in the surface as it reached equilibrium. Based on the step test results, SVE wells VE-7S and VE-8S were selected for continuous testing.

PID and FID measurements were taken at the GAC influent, outlet, and effluent streams daily to ensure that the system was operating within the requirements of the SCAQMD permit. Soil vapor samples were also collected periodically.

The system was shut down on July 20, 2007, in response to EPA's requirement.

Figure B-1
Omega Chemical Superfund Site Expanded SVE Pilot Test
Transient Vacuum Response at VMP-6, Operating Well VE-7S

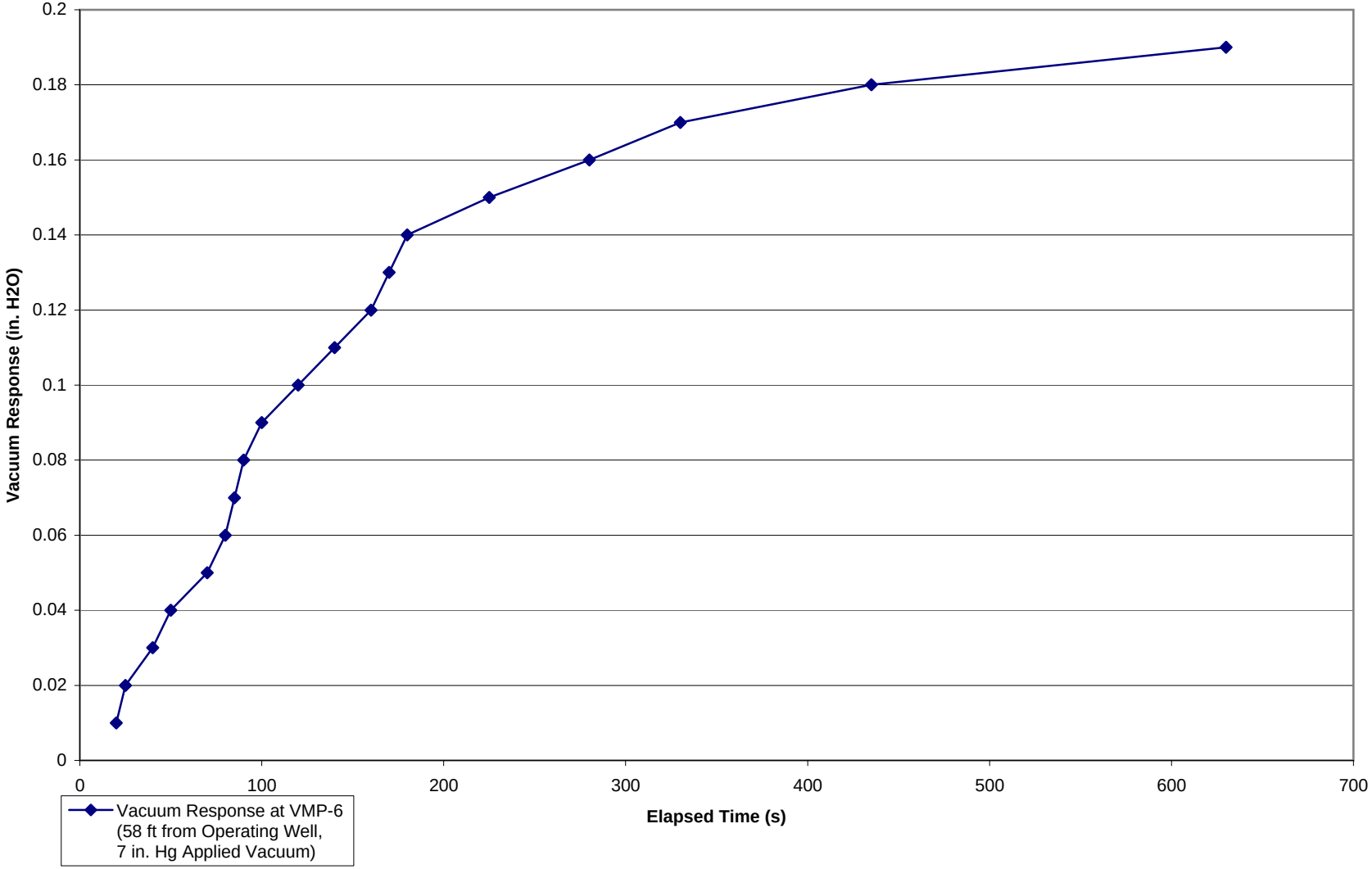


Figure B-2
Omega Chemical Superfund Site Expanded SVE Pilot Test
Transient Vacuum Response at VMP-2, Operating Well VE-5S

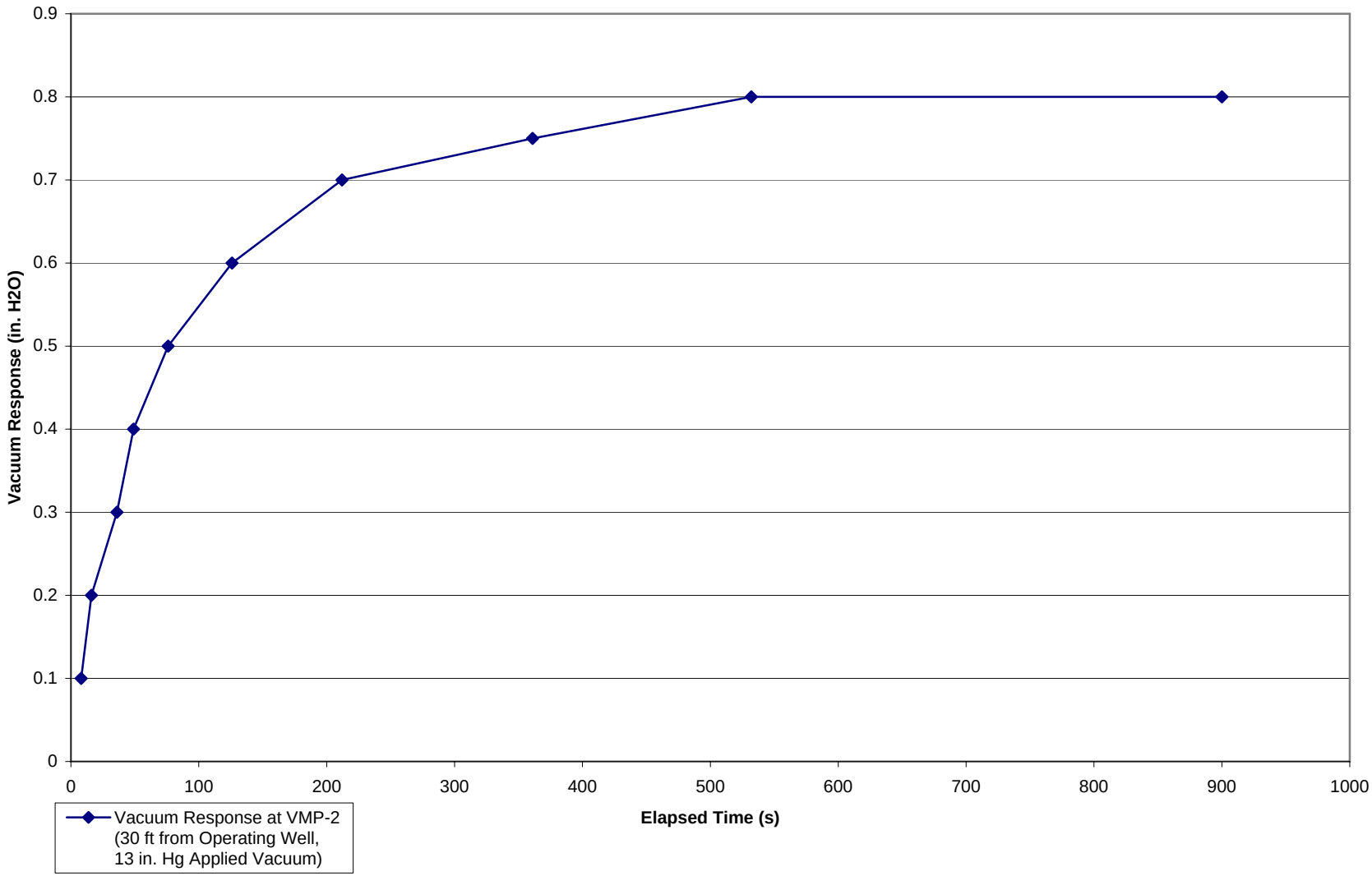


Figure B-3
Omega Chemical Superfund Site Expanded SVE Pilot Test
Transient Vacuum Response at VE-4S, Operating Well VE-5S

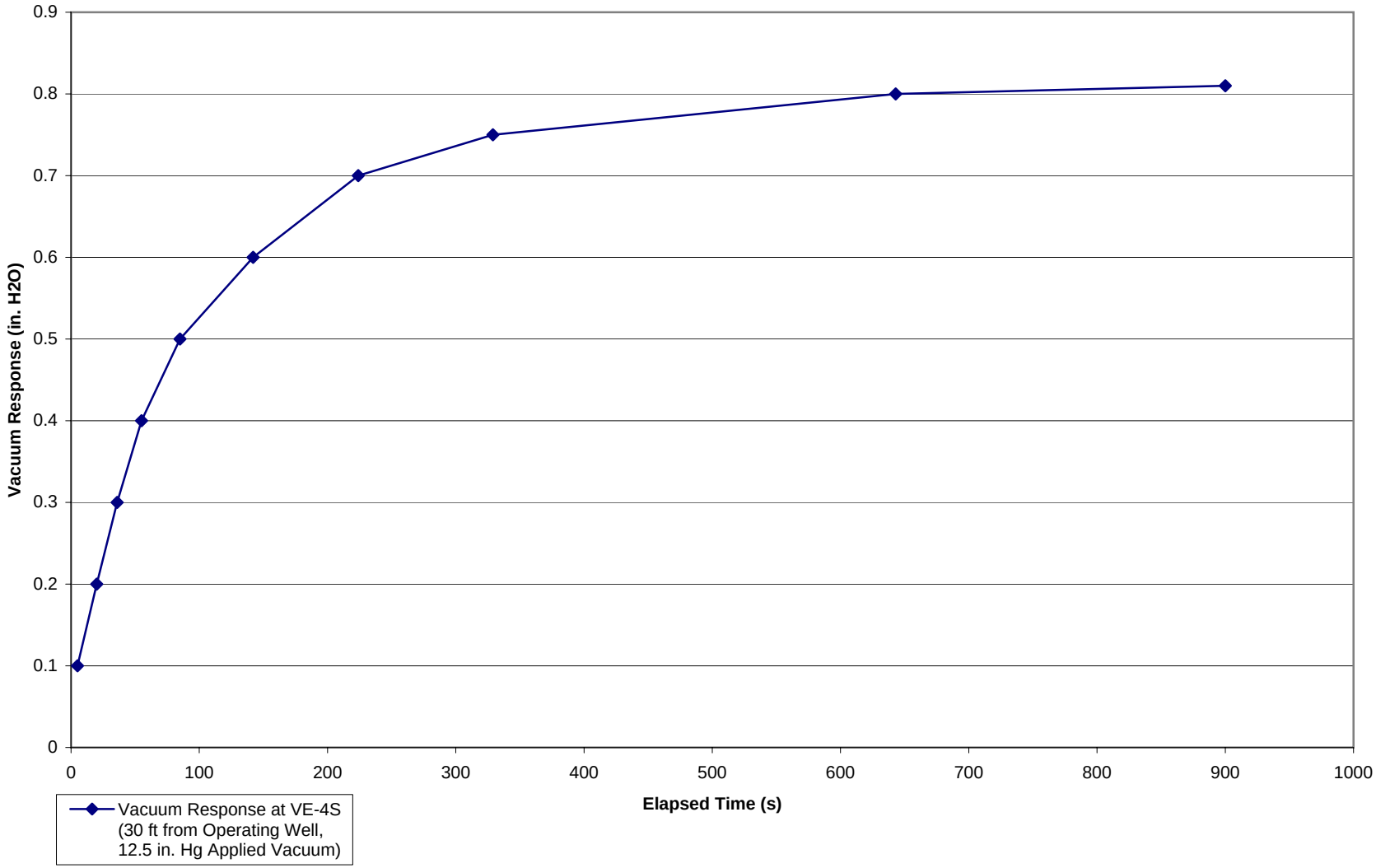


Table B-1
Omega Chemical Superfund Site
Baseline Field Measurements

Location	Ambient Vac. in. Hg	PID ppmv	FID ppmv	Comments
VE-6S	-0.017	181	168.2	Did not purge full well volume
VE-7S	-0.006	147	333	Did not purge full well volume
VE-8S	0.001	13.8	13.8	Did not purge full well volume
VMP-1	0.004	561	1441	
VMP-2	-0.009	171.4	328.4	
VMP-3	0.001	91.4	138	
VMP-4	0.009	154	482.7	
VMP-5	-0.006	1380	4374	
VMP-6	-0.014	830	3230	

Notes:

in. Hg inches of mercury
ppmv parts per million

Table B-2
Omega Chemical Superfund Site Expanded SVE Pilot Test
VE-8S Step Test Field Data 6/15/07

Step 1														
	Operating Well - VE-8S			Vacuum Measurements - in. H2O										
Time	Vacuum	Flow	Temperature	VE-8S	VE-7S	VE-6S	VE-5S	VE-2M	VMP-6	VMP-5	VMP-4	VMP-3	VMP-2	VMP-1
	in. Hg	SCFM	°F	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20
8:45	6	83.5	70	--	0.159	0.02			1.35	0.12	0.018	0.005	0.047	0.048
9:20	6	90	70	--	0.181	0.035	0.09	0.028	1.4	0.15	0.038	0.022	0.059	0.067
10:00	6	99	70	--	0.193	0.028	0.1	0.023	1.6	0.18	0.036	0.014	0.059	0.062
10:50	6	108	70	--	0.187	0.027	0.108	0.027	1.66	0.19	0.023	0.025	0.056	0.054
Step 2														
	Operating Well - VE-8S			Vacuum Measurements - in. H2O										
Time	Vacuum	Flow	Temperature	VE-8S	VE-7S	VE-6S	VE-5S	VE-2M	VMP-6	VMP-5	VMP-4	VMP-3	VMP-2	VMP-1
	in. Hg	SCFM	°F	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20
11:25	8	128	70	--	0.252	0.038	0.121	0.018	2.04	0.22	0.038	0.023	0.065	0.064
12:00	7.2	--	--	--	0.252	0.049	0.138	0.039	2.08	0.23	0.038	0.025	0.08	0.078
12:30	7.2	131	70	--	0.25	0.025	0.109	0.021	2.13	0.24	0.038	0.019	0.062	0.06
13:30	7	145	70	--	0.262	0.036	0.13	0.033	2.16	0.23	0.037	0.021	0.079	0.082
Step 3														
	Operating Well - VE-8S			Vacuum Measurements - in. H2O										
Time	Vacuum	Flow	Temperature	VE-8S	VE-7S	VE-6S	VE-5S	VE-2M	VMP-6	VMP-5	VMP-4	VMP-3	VMP-2	VMP-1
	in. Hg	SCFM	°F	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20
14:30	4	91	70	--	0.179	0.028	0.081	0.011	1.6	0.17	0.015	0.007	0.05	0.05
15:20	4	93	70	--	0.178	0.028	0.086	0.007	1.6	0.18	0.019	0.011	0.061	0.053

Step 1						
	PID (ppmv)			FID (ppmv)		
Time	Influent	Outlet	Effluent	Influent	Outlet	Effluent
8:45	370	0	0	948	0	0
10:00	360	0	0	1080	0	0
10:50	407	0	0	1100	0	0
Step 2						
	PID (ppmv)			FID (ppmv)		
Time	Influent	Outlet	Effluent	Influent	Outlet	Effluent
11:25	387	0	0	1146	0	0
12:30	388	0	0	1100	1.7	0
13:30	363	0	0	NM	NM	NM
Step 3						
	PID (ppmv)			FID (ppmv)		
Time	Influent	Outlet	Effluent	Influent	Outlet	Effluent
14:30	385	0	0	NM	NM	NM
15:20	404	0	0	NM	NM	NM

Notes

--	well in operation
°F	degrees Fahrenheit
in. H2O	inches of water
in. Hg	inches of mercury
NM	not measured
ppmv	parts per million by volume
SCFM	standard cubic feet per minute

Table B-3
Omega Chemical Superfund Site Expanded SVE Pilot Test
VE-6S Step Test Field Data 6/18/07

Step 1														
	Operating Well - VE-6S			Vacuum Measurements - in. H2O										
Time	Vacuum	Flow	Temperature	VE-8S	VE-7S	VE-6S	VE-5S	VE-2M	VMP-6	VMP-5	VMP-4	VMP-3	VMP-2	VMP-1
	in. Hg	SCFM	°F	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20
9:10	4	111	72	0.02	0.082	--	0.005	0.002	0.03	0.08	1.43	0.05	0.01	0.004
10:10	4	109	74	0.035	0.093	--	0.039	0.018	0.039	0.09	1.49	0.01	0.034	0.036
11:10	4	113	73	0.031	0.093	--	0.026	0.006	0.034	0.09	1.49	0.007	0.021	0.029
Step 2														
	Operating Well - VE-6S			Vacuum Measurements - in. H2O										
Time	Vacuum	Flow	Temperature	VE-8S	VE-7S	VE-6S	VE-5S	VE-2M	VMP-6	VMP-5	VMP-4	VMP-3	VMP-2	VMP-1
	in. Hg	SCFM	°F	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20
12:10	6	145	72	0.027	0.102	--	0.036	0.016	0.046	0.102	1.8	0.007	0.021	0.034
13:15	6	145	72	0.03	0.111	--	0.041	0.006	0.043	0.11	1.85	0.007	0.023	0.028
Step 3														
	Operating Well - VE-6S			Vacuum Measurements - in. H2O										
Time	Vacuum	Flow	Temperature	VE-8S	VE-7S	VE-6S	VE-5S	VE-2M	VMP-6	VMP-5	VMP-4	VMP-3	VMP-2	VMP-1
	in. Hg	SCFM	°F	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20
14:25	2.5	87	72	0.008	0.062	--	0.027	0.006	0.009	0.08	1.15	0.002	0.005	0.01
15:20	2.5	86	74	0.009	0.061	--	0.021	0.003	0.013	0.08	1.15	0.004	0.02	0.022

Step 1						
	PID (ppmv)			FID (ppmv)		
Time	Influent	Outlet	Effluent	Influent	Outlet	Effluent
9:10	182	0	0	425.7	0	0
11:10	83.5	0	0	268.4	0	0
Step 2						
	PID (ppmv)			FID (ppmv)		
Time	Influent	Outlet	Effluent	Influent	Outlet	Effluent
12:10	103	0	0	283.4	0	0
13:15	99.8	0	0	275.6	0	0
Step 3						
	PID (ppmv)			FID (ppmv)		
Time	Influent	Outlet	Effluent	Influent	Outlet	Effluent
14:25	103	0	0	261.9	0	0

Notes

--	well in operation
°F	degrees Fahrenheit
in. H2O	inches of water
in. Hg	inches of mercury
NM	not measured
ppmv	parts per million by volume
SCFM	standard cubic feet per minute

Table B-4
Omega Chemical Superfund Site Expanded SVE Pilot Test
VE-7S Step Test Field Data 6/19/07

Step 1														
	Operating Well - VE-7S			Vacuum Measurements - in. H2O										
Time	Vacuum	Flow	Temperature	VE-8S	VE-7S	VE-6S	VE-5S	VE-2M	VMP-6	VMP-5	VMP-4	VMP-3	VMP-2	VMP-1
	in. Hg	SCFM	°F	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20
10:25	7	95.5	74	0.16	--	0.072	0.052	0.002	0.18	1	0.061	0.011	0.025	0.035
10:55	5.5	98	72	0.174	--	0.077	0.054	0.009	0.2	1.1	0.077	0.003	0.03	0.035
11:53	5.5	101	74	0.19	--	0.092	0.05	0.011	0.21	1.17	0.086	0.006	0.03	0.04
12:20	5	NM	NM	0.19	--	0.092	NM	NM	0.21	1.17	0.086	NM	NM	NM
Step 2														
	Operating Well - VE-7S			Vacuum Measurements - in. H2O										
Time	Vacuum	Flow	Temperature	VE-8S	VE-7S	VE-6S	VE-5S	VE-2M	VMP-6	VMP-5	VMP-4	VMP-3	VMP-2	VMP-1
	in. Hg	SCFM	°F	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20
12:45	8	150	72	0.263	--	0.114	0.053	0.014	0.26	1.6	0.133	0.007	0.035	0.045
13:25	7	160	72	0.258	--	0.113	0.061	0.01	0.28	1.65	0.125	0.003	0.035	0.04
13:50	7	NM	NM	0.258	--	0.113	NM	NM	0.28	1.65	0.125	NM	NM	NM
Step 3														
	Operating Well - VE-7S			Vacuum Measurements - in. H2O										
Time	Vacuum	Flow	Temperature	VE-8S	VE-7S	VE-6S	VE-5S	VE-2M	VMP-6	VMP-5	VMP-4	VMP-3	VMP-2	VMP-1
	in. Hg	SCFM	°F	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20	in. H20
14:30	3	85	75	0.163	--	0.065	0.042	0.011	0.18	0.9	0.072	0.005	0.025	0.04
15:15	3	85.5	74	0.16	--	0.066	0.039	0.008	0.18	0.9	0.066	0.008	0.03	0.04

Step 1						
	PID (ppmv)			FID (ppmv)		
Time	Influent	Outlet	Effluent	Influent	Outlet	Effluent
10:25	505	0	0	1104	0	0
11:53	580	0	0	1421	0	0
Step 2						
	PID (ppmv)			FID (ppmv)		
Time	Influent	Outlet	Effluent	Influent	Outlet	Effluent
12:45	610	0	0	1445	0	0
Step 3						
	PID (ppmv)			FID (ppmv)		
Time	Influent	Outlet	Effluent	Influent	Outlet	Effluent
14:30	574	0	0	1337	0	0
15:15	404	0	0	NM	NM	NM

Notes

--	well in operation
°F	degrees Fahrenheit
in. H2O	inches of water
in. Hg	inches of mercury
NM	not measured
ppmv	parts per million by volume
SCFM	standard cubic feet per minute

Appendix C
Analytical Reports

22 June 2007

Sharon Wallin
CDM -- Irvine
18581 Teller Ave., Suite 200
Irvine, CA 92612

RE: Omega

Enclosed are the results of analyses for samples received by the laboratory on 06/18/07 12:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Albert Vargas
Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GAC-INFLUENT-VE7S-061407	T700789-01	Air	06/14/07 13:10	06/18/07 12:40
GAC-EFFLUENT-VE7S-061407	T700789-02	Air	06/14/07 13:10	06/18/07 12:40
GAC-OUTLET-VE8S-061507	T700789-03	Air	06/15/07 13:30	06/18/07 12:40
GAC-INFLUENT-VE8S-061507	T700789-04	Air	06/15/07 13:30	06/18/07 12:40

SunStar Laboratories, Inc.

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

Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

GAC-INFLUENT-VE7S-061407
T700789-01 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									**TO-14**
Acetone	ND	50	ppb(v)	2.94	7061801	06/18/07	06/19/07	TO-15	
1,3-Butadiene	ND	50	"	"	"	"	"	"	
Carbon disulfide	ND	50	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	50	"	"	"	"	"	"	
Isopropyl alcohol	ND	50	"	"	"	"	"	"	
Bromodichloromethane	ND	50	"	"	"	"	"	"	
Bromoform	ND	50	"	"	"	"	"	"	
Bromomethane	ND	50	"	"	"	"	"	"	
Carbon tetrachloride	ND	50	"	"	"	"	"	"	
Chlorobenzene	ND	50	"	"	"	"	"	"	
Chloroethane	ND	50	"	"	"	"	"	"	
Chloroform	**220**	50	"	"	"	"	"	"	
Chloromethane	ND	50	"	"	"	"	"	"	
Cyclohexane	ND	50	"	"	"	"	"	"	
Hexane	ND	50	"	"	"	"	"	"	
Dibromochloromethane	ND	50	"	"	"	"	"	"	
Heptane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	50	"	"	"	"	"	"	
1,1-Dichloroethane	**240**	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,1-Dichloroethene	**9400**	50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**410**	50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
Methylene chloride	**280**	50	"	"	"	"	"	"	
Styrene	ND	50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	50	"	"	"	"	"	"	
Tetrachloroethene	**29000**	50	"	"	"	"	"	"	
Tetrahydrofuran	**82**	50	"	"	"	"	"	"	
1,1,2-Trichloroethane	**64**	50	"	"	"	"	"	"	
1,1,1-Trichloroethane	**91**	50	"	"	"	"	"	"	
Trichloroethene	**3100**	50	"	"	"	"	"	"	
Trichlorofluoromethane	**1700**	50	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

GAC-INFLUENT-VE7S-061407

T700789-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**TO-14**
1,3,5-Trimethylbenzene	ND	50	ppb(v)	2.94	7061801	06/18/07	06/19/07	TO-15	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
Vinyl acetate	ND	50	"	"	"	"	"	"	
Vinyl chloride	ND	50	"	"	"	"	"	"	
1,4-Dioxane	ND	50	"	"	"	"	"	"	
2-Butanone (MEK)	ND	50	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	50	"	"	"	"	"	"	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
m,p-Xylene	ND	50	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

GAC-EFFLUENT-VE7S-061407
T700789-02 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	**56**	5.0	ppb(v)	2	7061801	06/18/07	06/19/07	TO-15	
1,3-Butadiene	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	**2.9**	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Heptane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	**2.3**	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**12**	1.0	"	"	"	"	"	"	
Tetrahydrofuran	**66**	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

GAC-EFFLUENT-VE7S-061407

T700789-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
1,3,5-Trimethylbenzene	ND	1.0	ppb(v)	2	7061801	06/18/07	06/19/07	TO-15	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
2-Butanone (MEK)	**20**	5.0	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.3 %*	*40-160*		*"*	*"*	*"*	*"*	

SunStar Laboratories, Inc.

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

Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

GAC-OUTLET-VE8S-061507

T700789-03 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	**18**	5.0	ppb(v)	2	7061801	06/18/07	06/19/07	TO-15	
1,3-Butadiene	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	**9.2**	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Heptane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**3.7**	1.0	"	"	"	"	"	"	
Tetrahydrofuran	**38**	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

GAC-OUTLET-VE8S-061507

T700789-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
1,3,5-Trimethylbenzene	ND	1.0	ppb(v)	2	7061801	06/18/07	06/19/07	TO-15	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
2-Butanone (MEK)	**12**	5.0	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.6 %*	*40-160*		*"*	*"*	*"*	*"*	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

GAC-INFLUENT-VE8S-061507

T700789-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**TO-14**
Acetone	ND	50	ppb(v)	2.25	7061801	06/18/07	06/19/07	TO-15	
1,3-Butadiene	ND	50	"	"	"	"	"	"	
Carbon disulfide	ND	50	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	50	"	"	"	"	"	"	
Isopropyl alcohol	ND	50	"	"	"	"	"	"	
Bromodichloromethane	ND	50	"	"	"	"	"	"	
Bromoform	ND	50	"	"	"	"	"	"	
Bromomethane	ND	50	"	"	"	"	"	"	
Carbon tetrachloride	ND	50	"	"	"	"	"	"	
Chlorobenzene	ND	50	"	"	"	"	"	"	
Chloroethane	ND	50	"	"	"	"	"	"	
Chloroform	**270**	50	"	"	"	"	"	"	
Chloromethane	ND	50	"	"	"	"	"	"	
Cyclohexane	ND	50	"	"	"	"	"	"	
Hexane	ND	50	"	"	"	"	"	"	
Dibromochloromethane	ND	50	"	"	"	"	"	"	
Heptane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	50	"	"	"	"	"	"	
1,1-Dichloroethane	**400**	50	"	"	"	"	"	"	
1,2-Dichloroethane	**260**	50	"	"	"	"	"	"	
1,1-Dichloroethene	**1700**	50	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	50	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**79**	50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
Methylene chloride	**75**	50	"	"	"	"	"	"	
Styrene	ND	50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	50	"	"	"	"	"	"	
Tetrachloroethene	**25000**	50	"	"	"	"	"	"	
Tetrahydrofuran	**65**	50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	50	"	"	"	"	"	"	
1,1,1-Trichloroethane	**650**	50	"	"	"	"	"	"	
Trichloroethene	**1100**	50	"	"	"	"	"	"	
Trichlorofluoromethane	**180**	50	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

GAC-INFLUENT-VE8S-061507

T700789-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**TO-14**
1,3,5-Trimethylbenzene	ND	50	ppb(v)	2.25	7061801	06/18/07	06/19/07	TO-15	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
Vinyl acetate	ND	50	"	"	"	"	"	"	
Vinyl chloride	ND	50	"	"	"	"	"	"	
1,4-Dioxane	**54**	50	"	"	"	"	"	"	
2-Butanone (MEK)	ND	50	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	50	"	"	"	"	"	"	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
m,p-Xylene	ND	50	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7061801 - Canister Analysis										
Blank (7061801-BLK1)				Prepared: 06/18/07 Analyzed: 06/19/07						
Surrogate: 4-Bromofluorobenzene	*5.68*		*ppb(v)*	*6.25*		*90.9*	*40-160*			
Acetone	ND	5.0	"							
1,3-Butadiene	ND	2.0	"							
Carbon disulfide	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"							
Isopropyl alcohol	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	5.0	"							
Cyclohexane	ND	1.0	"							
Hexane	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
Heptane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
4-Ethyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Tetrahydrofuran	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7061801 - Canister Analysis										
Blank (7061801-BLK1)				Prepared: 06/18/07 Analyzed: 06/19/07						
Trichlorofluoromethane	ND	1.0	ppb(v)							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
1,4-Dioxane	ND	5.0	"							
2-Butanone (MEK)	ND	5.0	"							
Methyl isobutyl ketone	ND	10	"							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Duplicate (7061801-DUP1)		**Source: T700789-02**		Prepared: 06/18/07 Analyzed: 06/19/07						
Surrogate: 4-Bromofluorobenzene	*5.44*		*ppb(v)*	*6.25*		*87.0*	*40-160*			
Acetone	48.4	5.0	"		55.5			13.7	30	
1,3-Butadiene	ND	2.0	"		ND				30	
Carbon disulfide	ND	1.0	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"		ND				30	
Isopropyl alcohol	ND	1.0	"		2.92				30	
Bromodichloromethane	ND	1.0	"		ND				30	
Bromoform	ND	1.0	"		ND				30	
Bromomethane	ND	1.0	"		ND				30	
Carbon tetrachloride	ND	1.0	"		ND				30	
Chlorobenzene	ND	1.0	"		ND				30	
Chloroethane	ND	1.0	"		ND				30	
Chloroform	ND	1.0	"		ND				30	
Chloromethane	ND	5.0	"		ND				30	
Cyclohexane	ND	1.0	"		ND				30	
Hexane	ND	1.0	"		ND				30	
Dibromochloromethane	ND	1.0	"		ND				30	
Heptane	ND	1.0	"		ND				30	
1,2-Dibromoethane (EDB)	ND	1.0	"		ND				30	
1,2-Dichlorobenzene	ND	1.0	"		ND				30	
1,3-Dichlorobenzene	ND	1.0	"		ND				30	
1,4-Dichlorobenzene	ND	1.0	"		ND				30	
Dichlorodifluoromethane	ND	1.0	"		ND				30	
1,1-Dichloroethane	ND	1.0	"		ND				30	
1,2-Dichloroethane	ND	1.0	"		ND				30	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/22/07 17:31

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7061801 - Canister Analysis										
Duplicate (7061801-DUP1)		**Source: T700789-02**		Prepared: 06/18/07 Analyzed: 06/19/07						
1,1-Dichloroethene	1.72	1.0	ppb(v)		2.26			27.1	30	
cis-1,2-Dichloroethene	ND	1.0	"		ND				30	
trans-1,2-Dichloroethene	ND	1.0	"		ND				30	
1,2-Dichloropropane	ND	1.0	"		ND				30	
cis-1,3-Dichloropropene	ND	1.0	"		ND				30	
trans-1,3-Dichloropropene	ND	1.0	"		ND				30	
4-Ethyltoluene	ND	1.0	"		ND				30	
Methylene chloride	ND	1.0	"		ND				30	
Styrene	ND	1.0	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	1.0	"		ND				30	
Tetrachloroethene	12.0	1.0	"		11.9			0.334	30	
Tetrahydrofuran	55.5	1.0	"		65.9			17.1	30	
1,1,2-Trichloroethane	ND	1.0	"		ND				30	
1,1,1-Trichloroethane	ND	1.0	"		ND				30	
Trichloroethene	ND	1.0	"		ND				30	
Trichlorofluoromethane	ND	1.0	"		ND				30	
1,3,5-Trimethylbenzene	ND	1.0	"		ND				30	
1,2,4-Trimethylbenzene	ND	1.0	"		ND				30	
Vinyl acetate	ND	1.0	"		ND				30	
Vinyl chloride	ND	1.0	"		ND				30	
1,4-Dioxane	ND	5.0	"		ND				30	
2-Butanone (MEK)	17.2	5.0	"		19.9			14.5	30	
Methyl isobutyl ketone	ND	10	"		ND				30	
Benzene	ND	1.0	"		ND				30	
Toluene	ND	1.0	"		ND				30	
Ethylbenzene	ND	1.0	"		ND				30	
m,p-Xylene	ND	2.0	"		ND				30	
o-Xylene	ND	1.0	"		ND				30	

Notes and Definitions

TO-14	TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

27 June 2007

Sharon Wallin
CDM -- Irvine
18581 Teller Ave., Suite 200
Irvine, CA 92612

RE: Omega

Enclosed are the results of analyses for samples received by the laboratory on 06/20/07 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Albert Vargas
Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GAC-INFLUENT-VE6S-061807	T700804-01	Air	06/18/07 12:30	06/20/07 15:30
GAC-OUTLET-VE6S-061807	T700804-02	Air	06/18/07 12:30	06/20/07 15:30

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:10

GAC-INFLUENT-VE6S-061807
T700804-01 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	**120**	5.0	ppb(v)	10	7062104	06/21/07	06/22/07	TO-15	
1,3-Butadiene	ND	2.0	"	1	"	"	06/22/07	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	**26**	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	**5.5**	1.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Heptane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	**7.7**	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	**490**	1.0	"	10	"	"	06/22/07	"	
cis-1,2-Dichloroethene	ND	1.0	"	1	"	"	06/22/07	"	
trans-1,2-Dichloroethene	**19**	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Styrene	**1.5**	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**320**	1.0	"	10	"	"	06/22/07	"	
Tetrahydrofuran	**22**	1.0	"	1	"	"	06/22/07	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**1.5**	1.0	"	"	"	"	"	"	
Trichloroethene	**380**	1.0	"	10	"	"	06/22/07	"	
Trichlorofluoromethane	**85**	1.0	"	1	"	"	06/22/07	"	

SunStar Laboratories, Inc.

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

Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:10

GAC-INFLUENT-VE6S-061807

T700804-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
1,3,5-Trimethylbenzene	ND	1.0	ppb(v)	1	7062104	06/21/07	06/22/07	TO-15	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
2-Butanone (MEK)	**23**	5.0	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	**5.3**	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	**3.6**	2.0	"	"	"	"	"	"	
o-Xylene	**1.7**	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.6 %*	*40-160*		*"*	*"*	*"*	*"*	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:10

GAC-OUTLET-VE6S-061807
T700804-02 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	**15**	5.0	ppb(v)	1	7062104	06/21/07	06/22/07	TO-15	
1,3-Butadiene	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	**10**	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Heptane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**3.6**	1.0	"	"	"	"	"	"	
Tetrahydrofuran	**23**	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:10

GAC-OUTLET-VE6S-061807
T700804-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
1,3,5-Trimethylbenzene	ND	1.0	ppb(v)	1	7062104	06/21/07	06/22/07	TO-15	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
2-Butanone (MEK)	**7.3**	5.0	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	**1.2**	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.0 %*	*40-160*		*"*	*"*	*"*	*"*	

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7062104 - Canister Analysis										
Blank (7062104-BLK1)				Prepared: 06/21/07 Analyzed: 06/22/07						
Surrogate: 4-Bromofluorobenzene	*6.03*		*ppb(v)*	*6.25*		*96.5*	*40-160*			
Acetone	ND	5.0	"							
1,3-Butadiene	ND	2.0	"							
Carbon disulfide	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"							
Isopropyl alcohol	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	5.0	"							
Cyclohexane	ND	1.0	"							
Hexane	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
Heptane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
4-Ethyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Tetrahydrofuran	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:10

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7062104 - Canister Analysis										
Blank (7062104-BLK1)				Prepared: 06/21/07 Analyzed: 06/22/07						
Trichlorofluoromethane	ND	1.0	ppb(v)							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
1,4-Dioxane	ND	5.0	"							
2-Butanone (MEK)	ND	5.0	"							
Methyl isobutyl ketone	ND	10	"							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Duplicate (7062104-DUP1)		**Source: T700803-02**		Prepared: 06/21/07 Analyzed: 06/22/07						
Surrogate: 4-Bromofluorobenzene	*6.14*		*ppb(v)*	*6.25*		*98.2*	*40-160*			
Acetone	31.9	10	"		33.9			6.22	30	
1,3-Butadiene	ND	10	"		ND				30	
Carbon disulfide	ND	10	"		0.690				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	10	"		ND				30	
Isopropyl alcohol	ND	10	"		14.7				30	
Bromodichloromethane	ND	10	"		ND				30	
Bromoform	ND	10	"		ND				30	
Bromomethane	ND	10	"		ND				30	
Carbon tetrachloride	ND	10	"		ND				30	
Chlorobenzene	ND	10	"		ND				30	
Chloroethane	ND	10	"		ND				30	
Chloroform	ND	10	"		ND				30	
Chloromethane	ND	10	"		0.938				30	
Cyclohexane	ND	10	"		ND				30	
Hexane	ND	10	"		ND				30	
Dibromochloromethane	ND	10	"		ND				30	
Heptane	ND	10	"		0.290				30	
1,2-Dibromoethane (EDB)	ND	10	"		ND				30	
1,2-Dichlorobenzene	ND	10	"		ND				30	
1,3-Dichlorobenzene	ND	10	"		ND				30	
1,4-Dichlorobenzene	ND	10	"		ND				30	
Dichlorodifluoromethane	ND	10	"		0.483				30	
1,1-Dichloroethane	ND	10	"		ND				30	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:10

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7062104 - Canister Analysis										
Duplicate (7062104-DUP1)		**Source: T700803-02**		Prepared: 06/21/07 Analyzed: 06/22/07						
1,2-Dichloroethane	ND	10	ppb(v)		ND				30	
1,1-Dichloroethene	ND	10	"		0.745				30	
cis-1,2-Dichloroethene	ND	10	"		ND				30	
trans-1,2-Dichloroethene	ND	10	"		ND				30	
1,2-Dichloropropane	ND	10	"		ND				30	
cis-1,3-Dichloropropene	ND	10	"		ND				30	
trans-1,3-Dichloropropene	ND	10	"		ND				30	
4-Ethyltoluene	ND	10	"		ND				30	
Methylene chloride	ND	10	"		0.662				30	
Styrene	ND	10	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	10	"		ND				30	
Tetrachloroethene	5.90	10	"		6.32			6.88	30	
Tetrahydrofuran	46.6	10	"		49.0			4.97	30	
1,1,2-Trichloroethane	ND	10	"		ND				30	
1,1,1-Trichloroethane	ND	10	"		ND				30	
Trichloroethene	ND	10	"		ND				30	
Trichlorofluoromethane	ND	10	"		ND				30	
1,3,5-Trimethylbenzene	ND	10	"		ND				30	
1,2,4-Trimethylbenzene	ND	10	"		ND				30	
Vinyl acetate	ND	10	"		ND				30	
Vinyl chloride	ND	10	"		ND				30	
1,4-Dioxane	ND	10	"		ND				30	
2-Butanone (MEK)	14.5	10	"		15.1			4.31	30	
Methyl isobutyl ketone	ND	10	"		ND				30	
Benzene	ND	10	"		ND				30	
Toluene	ND	10	"		ND				30	
Ethylbenzene	ND	10	"		ND				30	
m,p-Xylene	ND	10	"		ND				30	
o-Xylene	ND	10	"		ND				30	
Methyl tert-butyl ether	ND	10	"		ND				30	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

27 June 2007

Sharon Wallin
CDM -- Irvine
18581 Teller Ave., Suite 200
Irvine, CA 92612

RE: Omega

Enclosed are the results of analyses for samples received by the laboratory on 06/20/07 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Albert Vargas
Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GAC-INFLUENT-VE7S-061907	T700803-01	Air	06/19/07 13:00	06/20/07 15:30
GAC-OUTLET-VE7S-061907	T700803-02	Air	06/19/07 13:00	06/20/07 15:30
GAC-INFLUENT-7S8S-062007	T700803-03	Air	06/20/07 11:45	06/20/07 15:30
GAC-OUTLET-7S8S-062007	T700803-04	Air	06/20/07 11:45	06/20/07 15:30

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:28

GAC-INFLUENT-VE7S-061907
T700803-01 (Air)

SunStar Laboratories, Inc.

TO-15 **R-06**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	**18**	10	ppb(v)	10	7062104	06/21/07	06/22/07	TO-15	
1,3-Butadiene	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	10	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	**3100**	10	"	1.81	"	"	"	"	
Isopropyl alcohol	ND	10	"	10	"	"	"	"	
Bromodichloromethane	ND	10	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	10	"	"	"	"	"	"	
Chlorobenzene	ND	10	"	"	"	"	"	"	
Chloroethane	ND	10	"	"	"	"	"	"	
Chloroform	**100**	10	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
Cyclohexane	ND	10	"	"	"	"	"	"	
Hexane	ND	10	"	"	"	"	"	"	
Dibromochloromethane	ND	10	"	"	"	"	"	"	
Heptane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	**130**	10	"	"	"	"	"	"	
1,2-Dichloroethane	ND	10	"	"	"	"	"	"	
1,1-Dichloroethene	**5800**	10	"	1.81	"	"	06/22/07	"	
cis-1,2-Dichloroethene	ND	10	"	10	"	"	06/22/07	"	
trans-1,2-Dichloroethene	**240**	10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
4-Ethyltoluene	ND	10	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Styrene	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
Tetrachloroethene	**2400**	10	"	1.81	"	"	06/22/07	"	
Tetrahydrofuran	**35**	10	"	10	"	"	06/22/07	"	
1,1,2-Trichloroethane	**12**	10	"	"	"	"	"	"	
1,1,1-Trichloroethane	**36**	10	"	"	"	"	"	"	
Trichloroethene	**810**	10	"	1.81	"	"	06/22/07	"	
Trichlorofluoromethane	**830**	10	"	10	"	"	06/22/07	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:28

GAC-INFLUENT-VE7S-061907

T700803-01 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									**R-06**
1,3,5-Trimethylbenzene	ND	10	ppb(v)	10	7062104	06/21/07	06/22/07	TO-15	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
1,4-Dioxane	ND	10	"	"	"	"	"	"	
2-Butanone (MEK)	**11**	10	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	**12**	10	"	"	"	"	"	"	
Toluene	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*	*40-160*		*"*	*"*	*"*	*"*	

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:28

GAC-OUTLET-VE7S-061907
T700803-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
Acetone	**34**	5.0	ppb(v)	1.38	7062104	06/21/07	06/22/07	TO-15	
1,3-Butadiene	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	**15**	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Heptane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**6.3**	1.0	"	"	"	"	"	"	
Tetrahydrofuran	**49**	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:28

GAC-OUTLET-VE7S-061907

T700803-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
1,3,5-Trimethylbenzene	ND	1.0	ppb(v)	1.38	7062104	06/21/07	06/22/07	TO-15	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
2-Butanone (MEK)	**15**	5.0	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.6 %*	*40-160*		*"*	*"*	*"*	*"*	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:28

GAC-INFLUENT-7S8S-062007
T700803-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**R-06**
Acetone	**24**	10	ppb(v)	10	7062104	06/21/07	06/22/07	TO-15	
1,3-Butadiene	ND	10	"	"	"	"	"	"	
Carbon disulfide	ND	10	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	**4200**	10	"	1.96	"	"	"	"	
Isopropyl alcohol	ND	10	"	10	"	"	"	"	
Bromodichloromethane	ND	10	"	"	"	"	"	"	
Bromoform	ND	10	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	**70**	10	"	"	"	"	"	"	
Chlorobenzene	ND	10	"	"	"	"	"	"	
Chloroethane	ND	10	"	"	"	"	"	"	
Chloroform	**400**	10	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
Cyclohexane	ND	10	"	"	"	"	"	"	
Hexane	ND	10	"	"	"	"	"	"	
Dibromochloromethane	ND	10	"	"	"	"	"	"	
Heptane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	**490**	10	"	"	"	"	"	"	
1,2-Dichloroethane	**210**	10	"	"	"	"	"	"	
1,1-Dichloroethene	**8500**	10	"	1.96	"	"	06/22/07	"	
cis-1,2-Dichloroethene	**14**	10	"	10	"	"	06/22/07	"	
trans-1,2-Dichloroethene	**430**	10	"	"	"	"	"	"	
1,2-Dichloropropane	ND	10	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	10	"	"	"	"	"	"	
4-Ethyltoluene	ND	10	"	"	"	"	"	"	
Methylene chloride	**11**	10	"	"	"	"	"	"	
Styrene	ND	10	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	10	"	"	"	"	"	"	
Tetrachloroethene	**46000**	10	"	1.96	"	"	06/22/07	"	
Tetrahydrofuran	**61**	10	"	10	"	"	06/22/07	"	
1,1,2-Trichloroethane	**160**	10	"	"	"	"	"	"	
1,1,1-Trichloroethane	**500**	10	"	"	"	"	"	"	
Trichloroethene	**3600**	10	"	1.96	"	"	06/22/07	"	
Trichlorofluoromethane	**1000**	10	"	10	"	"	06/22/07	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:28

GAC-INFLUENT-7S8S-062007
T700803-03 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**R-06**
1,3,5-Trimethylbenzene	ND	10	ppb(v)	10	7062104	06/21/07	06/22/07	TO-15	
1,2,4-Trimethylbenzene	ND	10	"	"	"	"	"	"	
Vinyl acetate	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	
1,4-Dioxane	**100**	10	"	"	"	"	"	"	
2-Butanone (MEK)	**17**	10	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	**55**	10	"	"	"	"	"	"	
Toluene	**10**	10	"	"	"	"	"	"	
Ethylbenzene	ND	10	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	10	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*40-160*		*"*	*"*	*"*	*"*	

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:28

GAC-OUTLET-7S8S-062007
T700803-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
Acetone	**20**	5.0	ppb(v)	1	7062104	06/21/07	06/22/07	TO-15	
1,3-Butadiene	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	**5.3**	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Heptane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**6.3**	1.0	"	"	"	"	"	"	
Tetrahydrofuran	**36**	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:28

GAC-OUTLET-7S8S-062007
T700803-04 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
1,3,5-Trimethylbenzene	ND	1.0	ppb(v)	1	7062104	06/21/07	06/22/07	TO-15	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
2-Butanone (MEK)	**11**	5.0	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	**1.9**	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*40-160*		*"*	*"*	*"*	*"*	

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7062104 - Canister Analysis										
Blank (7062104-BLK1)				Prepared: 06/21/07 Analyzed: 06/22/07						
Surrogate: 4-Bromofluorobenzene	*6.03*		*ppb(v)*	*6.25*		*96.5*	*40-160*			
Acetone	ND	5.0	"							
1,3-Butadiene	ND	2.0	"							
Carbon disulfide	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"							
Isopropyl alcohol	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	5.0	"							
Cyclohexane	ND	1.0	"							
Hexane	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
Heptane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
4-Ethyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Tetrahydrofuran	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:28

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7062104 - Canister Analysis										
Blank (7062104-BLK1)				Prepared: 06/21/07 Analyzed: 06/22/07						
Trichlorofluoromethane	ND	1.0	ppb(v)							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
1,4-Dioxane	ND	5.0	"							
2-Butanone (MEK)	ND	5.0	"							
Methyl isobutyl ketone	ND	10	"							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Duplicate (7062104-DUP1)		**Source: T700803-02**		Prepared: 06/21/07 Analyzed: 06/22/07						
Surrogate: 4-Bromofluorobenzene	*6.14*		*ppb(v)*	*6.25*		*98.2*	*40-160*			
Acetone	31.9	10	"		33.9			6.22	30	
1,3-Butadiene	ND	10	"		ND				30	
Carbon disulfide	ND	10	"		0.690				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	10	"		ND				30	
Isopropyl alcohol	ND	10	"		14.7				30	
Bromodichloromethane	ND	10	"		ND				30	
Bromoform	ND	10	"		ND				30	
Bromomethane	ND	10	"		ND				30	
Carbon tetrachloride	ND	10	"		ND				30	
Chlorobenzene	ND	10	"		ND				30	
Chloroethane	ND	10	"		ND				30	
Chloroform	ND	10	"		ND				30	
Chloromethane	ND	10	"		0.938				30	
Cyclohexane	ND	10	"		ND				30	
Hexane	ND	10	"		ND				30	
Dibromochloromethane	ND	10	"		ND				30	
Heptane	ND	10	"		0.290				30	
1,2-Dibromoethane (EDB)	ND	10	"		ND				30	
1,2-Dichlorobenzene	ND	10	"		ND				30	
1,3-Dichlorobenzene	ND	10	"		ND				30	
1,4-Dichlorobenzene	ND	10	"		ND				30	
Dichlorodifluoromethane	ND	10	"		0.483				30	
1,1-Dichloroethane	ND	10	"		ND				30	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/27/07 14:28

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7062104 - Canister Analysis										
Duplicate (7062104-DUP1)		**Source: T700803-02**		Prepared: 06/21/07 Analyzed: 06/22/07						
1,2-Dichloroethane	ND	10	ppb(v)		ND				30	
1,1-Dichloroethene	ND	10	"		0.745				30	
cis-1,2-Dichloroethene	ND	10	"		ND				30	
trans-1,2-Dichloroethene	ND	10	"		ND				30	
1,2-Dichloropropane	ND	10	"		ND				30	
cis-1,3-Dichloropropene	ND	10	"		ND				30	
trans-1,3-Dichloropropene	ND	10	"		ND				30	
4-Ethyltoluene	ND	10	"		ND				30	
Methylene chloride	ND	10	"		0.662				30	
Styrene	ND	10	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	10	"		ND				30	
Tetrachloroethene	5.90	10	"		6.32			6.88	30	
Tetrahydrofuran	46.6	10	"		49.0			4.97	30	
1,1,2-Trichloroethane	ND	10	"		ND				30	
1,1,1-Trichloroethane	ND	10	"		ND				30	
Trichloroethene	ND	10	"		ND				30	
Trichlorofluoromethane	ND	10	"		ND				30	
1,3,5-Trimethylbenzene	ND	10	"		ND				30	
1,2,4-Trimethylbenzene	ND	10	"		ND				30	
Vinyl acetate	ND	10	"		ND				30	
Vinyl chloride	ND	10	"		ND				30	
1,4-Dioxane	ND	10	"		ND				30	
2-Butanone (MEK)	14.5	10	"		15.1			4.31	30	
Methyl isobutyl ketone	ND	10	"		ND				30	
Benzene	ND	10	"		ND				30	
Toluene	ND	10	"		ND				30	
Ethylbenzene	ND	10	"		ND				30	
m,p-Xylene	ND	10	"		ND				30	
o-Xylene	ND	10	"		ND				30	
Methyl tert-butyl ether	ND	10	"		ND				30	

Notes and Definitions

R-06	Sample was diluted due to high levels of organic compounds, resulting in raised reporting limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

28 June 2007

Sharon Wallin
CDM -- Irvine
18581 Teller Ave., Suite 200
Irvine, CA 92612

RE: Omega

Enclosed are the results of analyses for samples received by the laboratory on 06/27/07 12:53. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Albert Vargas
Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/28/07 16:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GAC-OUTLET-7585-062707	T700831-01	Air	06/27/07 10:50	06/27/07 12:53
GAC-INFLUENT-7585-062707	T700831-02	Air	06/27/07 10:50	06/27/07 12:53

SunStar Laboratories, Inc.

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

Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/28/07 16:00

GAC-OUTLET-7585-062707
T700831-01 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	**5.9**	5.0	ppb(v)	2	7062708	06/27/07	06/27/07	TO-15	
1,3-Butadiene	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Heptane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	**20000**	1.0	"	3.15	"	"	06/27/07	"	
cis-1,2-Dichloroethene	ND	1.0	"	2	"	"	06/27/07	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	**530**	1.0	"	3.15	"	"	06/27/07	"	
Styrene	ND	1.0	"	2	"	"	06/27/07	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**4.8**	1.0	"	"	"	"	"	"	
Tetrahydrofuran	**5.2**	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/28/07 16:00

GAC-OUTLET-7585-062707
T700831-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
Trichlorofluoromethane	**700**	1.0	ppb(v)	2	7062708	06/27/07	06/27/07	TO-15	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
2-Butanone (MEK)	ND	5.0	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.1 %*	*40-160*		*"*	*"*	*"*	*"*	

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/28/07 16:00

GAC-INFLUENT-7585-062707
T700831-02 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	**7.4**	5.0	ppb(v)	2	7062708	06/27/07	06/27/07	TO-15	
1,3-Butadiene	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	**68**	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	**3000**	1.0	"	2.1	"	"	06/28/07	"	
Chloromethane	ND	5.0	"	2	"	"	06/27/07	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	2.1	"	"	06/28/07	"	
Heptane	ND	1.0	"	2	"	"	06/27/07	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	**5.2**	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	**3.2**	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	**2400**	1.0	"	2.1	"	"	06/28/07	"	
1,2-Dichloroethane	**250**	1.0	"	2	"	"	06/27/07	"	
1,1-Dichloroethene	**44000**	1.0	"	54.8	"	"	06/28/07	"	
cis-1,2-Dichloroethene	**25**	1.0	"	2	"	"	06/27/07	"	
trans-1,2-Dichloroethene	**2100**	1.0	"	2.1	"	"	06/28/07	"	
1,2-Dichloropropane	ND	1.0	"	2	"	"	06/27/07	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	**52**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**510000**	1.0	"	54.8	"	"	06/28/07	"	
Tetrahydrofuran	ND	1.0	"	2	"	"	06/27/07	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	**4500**	1.0	"	2.1	"	"	06/28/07	"	
Trichloroethene	**26000**	1.0	"	54.8	"	"	06/28/07	"	
Trichlorofluoromethane	**1100**	1.0	"	2	"	"	06/27/07	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/28/07 16:00

GAC-INFLUENT-7585-062707
T700831-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
1,3,5-Trimethylbenzene	ND	1.0	ppb(v)	2	7062708	06/27/07	06/27/07	TO-15	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
1,4-Dioxane	**480**	5.0	"	2.1	"	"	06/28/07	"	
2-Butanone (MEK)	ND	5.0	"	2	"	"	06/27/07	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	**64**	1.0	"	"	"	"	"	"	
Toluene	**59**	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.9 %*	*40-160*		*"*	*"*	*"*	*"*	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/28/07 16:00

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7062708 - Canister Analysis										
Blank (7062708-BLK1)				Prepared & Analyzed: 06/27/07						
Surrogate: 4-Bromofluorobenzene	*5.97*		*ppb(v)*	*6.25*		*95.5*	*40-160*			
Acetone	ND	5.0	"							
1,3-Butadiene	ND	2.0	"							
Carbon disulfide	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"							
Isopropyl alcohol	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	5.0	"							
Cyclohexane	ND	1.0	"							
Hexane	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
Heptane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
4-Ethyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Tetrahydrofuran	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/28/07 16:00

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7062708 - Canister Analysis										
Blank (7062708-BLK1)				Prepared & Analyzed: 06/27/07						
Trichlorofluoromethane	ND	1.0	ppb(v)							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
1,4-Dioxane	ND	5.0	"							
2-Butanone (MEK)	ND	5.0	"							
Methyl isobutyl ketone	ND	10	"							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Duplicate (7062708-DUP1)		**Source: T700812-01**		Prepared & Analyzed: 06/27/07						
Surrogate: 4-Bromofluorobenzene	*5.51*		*ppb(v)*	*6.25*		*88.2*	*40-160*			
Acetone	ND	5.0	"		ND				30	
1,3-Butadiene	ND	2.0	"		ND				30	
Carbon disulfide	ND	1.0	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"		ND				30	
Isopropyl alcohol	ND	1.0	"		ND				30	
Bromodichloromethane	ND	1.0	"		ND				30	
Bromoform	ND	1.0	"		ND				30	
Bromomethane	ND	1.0	"		ND				30	
Carbon tetrachloride	ND	1.0	"		ND				30	
Chlorobenzene	ND	1.0	"		ND				30	
Chloroethane	ND	1.0	"		ND				30	
Chloroform	ND	1.0	"		ND				30	
Chloromethane	ND	5.0	"		ND				30	
Cyclohexane	ND	1.0	"		ND				30	
Hexane	ND	1.0	"		ND				30	
Dibromochloromethane	ND	1.0	"		ND				30	
Heptane	ND	1.0	"		ND				30	
1,2-Dibromoethane (EDB)	ND	1.0	"		ND				30	
1,2-Dichlorobenzene	ND	1.0	"		ND				30	
1,3-Dichlorobenzene	ND	1.0	"		ND				30	
1,4-Dichlorobenzene	ND	1.0	"		ND				30	
Dichlorodifluoromethane	ND	1.0	"		ND				30	
1,1-Dichloroethane	ND	1.0	"		ND				30	
1,2-Dichloroethane	ND	1.0	"		ND				30	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	06/28/07 16:00

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7062708 - Canister Analysis										
Duplicate (7062708-DUP1)		**Source: T700812-01**		Prepared & Analyzed: 06/27/07						
1,1-Dichloroethene	ND	1.0	ppb(v)		ND				30	
cis-1,2-Dichloroethene	ND	1.0	"		ND				30	
trans-1,2-Dichloroethene	ND	1.0	"		ND				30	
1,2-Dichloropropane	ND	1.0	"		ND				30	
cis-1,3-Dichloropropene	ND	1.0	"		ND				30	
trans-1,3-Dichloropropene	ND	1.0	"		ND				30	
4-Ethyltoluene	ND	1.0	"		ND				30	
Methylene chloride	ND	1.0	"		ND				30	
Styrene	ND	1.0	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	1.0	"		ND				30	
Tetrachloroethene	ND	1.0	"		ND				30	
Tetrahydrofuran	ND	1.0	"		ND				30	
1,1,2-Trichloroethane	ND	1.0	"		ND				30	
1,1,1-Trichloroethane	ND	1.0	"		ND				30	
Trichloroethene	ND	1.0	"		ND				30	
Trichlorofluoromethane	ND	1.0	"		ND				30	
1,3,5-Trimethylbenzene	ND	1.0	"		ND				30	
1,2,4-Trimethylbenzene	ND	1.0	"		ND				30	
Vinyl acetate	ND	1.0	"		ND				30	
Vinyl chloride	ND	1.0	"		ND				30	
1,4-Dioxane	ND	5.0	"		ND				30	
2-Butanone (MEK)	ND	5.0	"		ND				30	
Methyl isobutyl ketone	ND	10	"		ND				30	
Benzene	ND	1.0	"		ND				30	
Toluene	ND	1.0	"		ND				30	
Ethylbenzene	ND	1.0	"		ND				30	
m,p-Xylene	ND	2.0	"		ND				30	
o-Xylene	ND	1.0	"		ND				30	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

12 July 2007

Sharon Wallin
CDM -- Irvine
18581 Teller Ave., Suite 200
Irvine, CA 92612

RE: Omega

Enclosed are the results of analyses for samples received by the laboratory on 07/03/07 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Albert Vargas
Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/12/07 17:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GAC-OUTLET-VE7S8S-070307	T700855-01	Air	07/03/07 13:40	07/03/07 15:30
GAC-INFLUENT-VE7S8S-070307	T700855-02	Air	07/03/07 13:40	07/03/07 15:30

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/12/07 17:00

GAC-OUTLET-VE7S8S-070307
T700855-01 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	**21**	5.0	ppb(v)	2	7070502	07/05/07	07/05/07	TO-15	
1,3-Butadiene	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Heptane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	**13**	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	**3.2**	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	**3.4**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**76**	1.0	"	8	"	"	"	"	
Tetrahydrofuran	**220**	1.0	"	"	"	"	07/06/07	"	
1,1,2-Trichloroethane	ND	1.0	"	2	"	"	07/05/07	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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

Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/12/07 17:00

GAC-OUTLET-VE7S8S-070307

T700855-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
Trichlorofluoromethane	ND	1.0	ppb(v)	2	7070502	07/05/07	07/05/07	TO-15	
1,3,5-Trimethylbenzene	**1.7**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**3.8**	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**30**	1.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
2-Butanone (MEK)	**56**	5.0	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	**6.8**	2.0	"	"	"	"	"	"	
o-Xylene	**4.3**	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.1 %*	*40-160*		*"*	*"*	*"*	*"*	

SunStar Laboratories, Inc.

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

Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/12/07 17:00

GAC-INFLUENT-VE7S8S-070307

T700855-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**TO-14**
Acetone	ND	50	ppb(v)	2.02	7070502	07/05/07	07/06/07	TO-15	
1,3-Butadiene	ND	50	"	"	"	"	"	"	
Carbon disulfide	ND	50	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	50	"	"	"	"	"	"	
Isopropyl alcohol	ND	50	"	"	"	"	"	"	
Bromodichloromethane	ND	50	"	"	"	"	"	"	
Bromoform	ND	50	"	"	"	"	"	"	
Bromomethane	ND	50	"	"	"	"	"	"	
Carbon tetrachloride	ND	50	"	"	"	"	"	"	
Chlorobenzene	ND	50	"	"	"	"	"	"	
Chloroethane	ND	50	"	"	"	"	"	"	
Chloroform	**2100**	50	"	"	"	"	"	"	
Chloromethane	ND	50	"	"	"	"	"	"	
Cyclohexane	ND	50	"	"	"	"	"	"	
Hexane	ND	50	"	"	"	"	"	"	
Dibromochloromethane	ND	50	"	"	"	"	"	"	
Heptane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	50	"	"	"	"	"	"	
1,1-Dichloroethane	**1400**	50	"	"	"	"	"	"	
1,2-Dichloroethane	**1000**	50	"	"	"	"	"	"	
1,1-Dichloroethene	**25000**	50	"	21.84	"	"	07/06/07	"	
cis-1,2-Dichloroethene	ND	50	"	2.02	"	"	07/06/07	"	
trans-1,2-Dichloroethene	**1400**	50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
Methylene chloride	ND	50	"	"	"	"	"	"	
Styrene	ND	50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	50	"	"	"	"	"	"	
Tetrachloroethene	**360000**	50	"	40.18	"	"	07/06/07	"	
Tetrahydrofuran	**190**	50	"	2.02	"	"	07/06/07	"	
1,1,2-Trichloroethane	**320**	50	"	"	"	"	"	"	
1,1,1-Trichloroethane	**3900**	50	"	"	"	"	"	"	
Trichloroethene	**15000**	50	"	"	"	"	"	"	
Trichlorofluoromethane	**2800**	50	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/12/07 17:00

GAC-INFLUENT-VE7S8S-070307

T700855-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**TO-14**
1,3,5-Trimethylbenzene	ND	50	ppb(v)	2.02	7070502	07/05/07	07/06/07	TO-15	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
Vinyl acetate	ND	50	"	"	"	"	"	"	
Vinyl chloride	ND	50	"	"	"	"	"	"	
1,4-Dioxane	**370**	50	"	"	"	"	"	"	
2-Butanone (MEK)	ND	50	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	50	"	"	"	"	"	"	
Benzene	**270**	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
m,p-Xylene	ND	50	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*%*	*40-160*		*"*	*"*	*"*	*"*	

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7070502 - Canister Analysis										
Blank (7070502-BLK1)				Prepared & Analyzed: 07/05/07						
Surrogate: 4-Bromofluorobenzene	*5.51*		*ppb(v)*	*6.25*		*88.2*	*40-160*			
Acetone	ND	5.0	"							
1,3-Butadiene	ND	2.0	"							
Carbon disulfide	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"							
Isopropyl alcohol	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	5.0	"							
Cyclohexane	ND	1.0	"							
Hexane	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
Heptane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
4-Ethyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Tetrahydrofuran	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/12/07 17:00

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7070502 - Canister Analysis										
Blank (7070502-BLK1)				Prepared & Analyzed: 07/05/07						
Trichlorofluoromethane	ND	1.0	ppb(v)							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
1,4-Dioxane	ND	5.0	"							
2-Butanone (MEK)	ND	5.0	"							
Methyl isobutyl ketone	ND	10	"							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Duplicate (7070502-DUP1)		**Source: T700855-01**		Prepared: 07/05/07	Analyzed: 07/06/07					
Surrogate: 4-Bromofluorobenzene	*5.63*		*ppb(v)*	*6.25*		*90.1*	*40-160*			
Acetone	24.3	5.0	"		21.0			14.9	30	
1,3-Butadiene	ND	2.0	"		ND				30	
Carbon disulfide	ND	1.0	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"		ND				30	
Isopropyl alcohol	ND	1.0	"		ND				30	
Bromodichloromethane	ND	1.0	"		ND				30	
Bromoform	ND	1.0	"		ND				30	
Bromomethane	ND	1.0	"		ND				30	
Carbon tetrachloride	ND	1.0	"		ND				30	
Chlorobenzene	ND	1.0	"		ND				30	
Chloroethane	ND	1.0	"		ND				30	
Chloroform	ND	1.0	"		ND				30	
Chloromethane	ND	5.0	"		ND				30	
Cyclohexane	ND	1.0	"		ND				30	
Hexane	ND	1.0	"		ND				30	
Dibromochloromethane	ND	1.0	"		ND				30	
Heptane	ND	1.0	"		ND				30	
1,2-Dibromoethane (EDB)	ND	1.0	"		ND				30	
1,2-Dichlorobenzene	ND	1.0	"		ND				30	
1,3-Dichlorobenzene	ND	1.0	"		ND				30	
1,4-Dichlorobenzene	ND	1.0	"		ND				30	
Dichlorodifluoromethane	10.7	1.0	"		13.1			20.3	30	
1,1-Dichloroethane	ND	1.0	"		ND				30	
1,2-Dichloroethane	ND	1.0	"		ND				30	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/12/07 17:00

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7070502 - Canister Analysis										
Duplicate (7070502-DUP1)		**Source: T700855-01**		Prepared: 07/05/07	Analyzed: 07/06/07					
1,1-Dichloroethene	2.56	1.0	ppb(v)		3.18			21.5	30	
cis-1,2-Dichloroethene	ND	1.0	"		ND				30	
trans-1,2-Dichloroethene	ND	1.0	"		ND				30	
1,2-Dichloropropane	ND	1.0	"		ND				30	
cis-1,3-Dichloropropene	ND	1.0	"		ND				30	
trans-1,3-Dichloropropene	ND	1.0	"		ND				30	
4-Ethyltoluene	3.62	1.0	"		3.44			4.97	30	
Methylene chloride	ND	1.0	"		ND				30	
Styrene	ND	1.0	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	1.0	"		ND				30	
Tetrachloroethene	70.2	1.0	"		75.6			7.46	30	
Tetrahydrofuran	214	1.0	"		222			3.96	30	
1,1,2-Trichloroethane	ND	1.0	"		ND				30	
1,1,1-Trichloroethane	ND	1.0	"		ND				30	
Trichloroethene	ND	1.0	"		ND				30	
Trichlorofluoromethane	ND	1.0	"		ND				30	
1,3,5-Trimethylbenzene	1.83	1.0	"		1.66			9.48	30	
1,2,4-Trimethylbenzene	4.28	1.0	"		3.82			11.4	30	
Vinyl acetate	ND	1.0	"		ND				30	
Vinyl chloride	22.7	1.0	"		29.9			27.6	30	
1,4-Dioxane	ND	5.0	"		ND				30	
2-Butanone (MEK)	46.2	5.0	"		55.9			19.1	30	
Methyl isobutyl ketone	ND	10	"		ND				30	
Benzene	ND	1.0	"		ND				30	
Toluene	ND	1.0	"		ND				30	
Ethylbenzene	0.456	1.0	"		0.500			9.14	30	
m,p-Xylene	6.74	2.0	"		6.80			0.898	30	
o-Xylene	4.21	1.0	"		4.26			1.13	30	

Notes and Definitions

TO-14	TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

16 July 2007

Sharon Wallin
CDM -- Irvine
18581 Teller Ave., Suite 200
Irvine, CA 92612

RE: Omega

Enclosed are the results of analyses for samples received by the laboratory on 07/06/07 15:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Albert Vargas
Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/16/07 17:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GAC-Outlet-VE7S8S-070607	T700866-01	Air	07/06/07 13:15	07/06/07 15:30
GAC-Influent-VE7S8S-070607	T700866-02	Air	07/06/07 13:15	07/06/07 15:30

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/16/07 17:45

GAC-Outlet-VE7S8S-070607
T700866-01 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	**39**	5.0	ppb(v)	2.22	7071005	07/10/07	07/11/07	TO-15	
1,3-Butadiene	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	**3.8**	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Heptane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	**12**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**4.0**	1.0	"	"	"	"	"	"	
Tetrahydrofuran	**89**	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/16/07 17:45

GAC-Outlet-VE7S8S-070607
T700866-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
Trichlorofluoromethane	ND	1.0	ppb(v)	2.22	7071005	07/10/07	07/11/07	TO-15	
1,3,5-Trimethylbenzene	**11**	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**12**	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**13**	1.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
2-Butanone (MEK)	**40**	5.0	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	**2.4**	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	**16**	2.0	"	"	"	"	"	"	
o-Xylene	**10**	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.6 %*	*40-160*		*"*	*"*	*"*	*"*	

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/16/07 17:45

GAC-Influent-VE7S8S-070607
T700866-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**TO-14**
Acetone	ND	50	ppb(v)	2.04	7071005	07/10/07	07/10/07	TO-15	
1,3-Butadiene	ND	50	"	"	"	"	"	"	
Carbon disulfide	ND	50	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	50	"	"	"	"	"	"	
Isopropyl alcohol	ND	50	"	"	"	"	"	"	
Bromodichloromethane	ND	50	"	"	"	"	"	"	
Bromoform	ND	50	"	"	"	"	"	"	
Bromomethane	ND	50	"	"	"	"	"	"	
Carbon tetrachloride	ND	50	"	"	"	"	"	"	
Chlorobenzene	ND	50	"	"	"	"	"	"	
Chloroethane	ND	50	"	"	"	"	"	"	
Chloroform	**2800**	50	"	"	"	"	"	"	
Chloromethane	ND	50	"	"	"	"	"	"	
Cyclohexane	ND	50	"	"	"	"	"	"	
Hexane	ND	50	"	"	"	"	"	"	
Dibromochloromethane	ND	50	"	"	"	"	"	"	
Heptane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	50	"	"	"	"	"	"	
1,1-Dichloroethane	**1800**	50	"	"	"	"	"	"	
1,2-Dichloroethane	**1500**	50	"	"	"	"	"	"	
1,1-Dichloroethene	**22000**	50	"	30	"	"	07/11/07	"	
cis-1,2-Dichloroethene	ND	50	"	2.04	"	"	07/10/07	"	
trans-1,2-Dichloroethene	**1700**	50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
Methylene chloride	**240**	50	"	"	"	"	"	"	
Styrene	ND	50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	50	"	"	"	"	"	"	
Tetrachloroethene	**310000**	50	"	30	"	"	07/11/07	"	
Tetrahydrofuran	**190**	50	"	2.04	"	"	07/10/07	"	
1,1,2-Trichloroethane	**400**	50	"	"	"	"	"	"	
1,1,1-Trichloroethane	**5400**	50	"	"	"	"	"	"	
Trichloroethene	**19000**	50	"	"	"	"	"	"	
Trichlorofluoromethane	**3500**	50	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/16/07 17:45

GAC-Influent-VE7S8S-070607

T700866-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**TO-14**
1,3,5-Trimethylbenzene	ND	50	ppb(v)	2.04	7071005	07/10/07	07/10/07	TO-15	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
Vinyl acetate	ND	50	"	"	"	"	"	"	
Vinyl chloride	ND	50	"	"	"	"	"	"	
1,4-Dioxane	**520**	50	"	"	"	"	"	"	
2-Butanone (MEK)	ND	50	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	50	"	"	"	"	"	"	
Benzene	**350**	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
m,p-Xylene	ND	50	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/16/07 17:45

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7071005 - Canister Analysis										
Blank (7071005-BLK1)				Prepared: 07/10/07 Analyzed: 07/11/07						
Surrogate: 4-Bromofluorobenzene	*5.62*		*ppb(v)*	*6.25*		*89.9*	*40-160*			
Acetone	ND	5.0	"							
1,3-Butadiene	ND	2.0	"							
Carbon disulfide	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"							
Isopropyl alcohol	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	5.0	"							
Cyclohexane	ND	1.0	"							
Hexane	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
Heptane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
4-Ethyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Tetrahydrofuran	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/16/07 17:45

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7071005 - Canister Analysis										
Blank (7071005-BLK1)				Prepared: 07/10/07 Analyzed: 07/11/07						
Trichlorofluoromethane	ND	1.0	ppb(v)							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
1,4-Dioxane	ND	5.0	"							
2-Butanone (MEK)	ND	5.0	"							
Methyl isobutyl ketone	ND	10	"							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Duplicate (7071005-DUP1)		**Source: T700866-01**		Prepared: 07/10/07 Analyzed: 07/11/07						
Surrogate: 4-Bromofluorobenzene	*5.47*		*ppb(v)*	*6.25*		*87.5*	*40-160*			
Acetone	39.9	5.0	"		39.4			1.18	30	
1,3-Butadiene	ND	2.0	"		ND				30	
Carbon disulfide	ND	1.0	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"		ND				30	
Isopropyl alcohol	3.95	1.0	"		3.77			4.60	30	
Bromodichloromethane	ND	1.0	"		ND				30	
Bromoform	ND	1.0	"		ND				30	
Bromomethane	ND	1.0	"		ND				30	
Carbon tetrachloride	ND	1.0	"		ND				30	
Chlorobenzene	ND	1.0	"		ND				30	
Chloroethane	ND	1.0	"		ND				30	
Chloroform	ND	1.0	"		ND				30	
Chloromethane	ND	5.0	"		ND				30	
Cyclohexane	ND	1.0	"		ND				30	
Hexane	ND	1.0	"		ND				30	
Dibromochloromethane	ND	1.0	"		ND				30	
Heptane	ND	1.0	"		ND				30	
1,2-Dibromoethane (EDB)	ND	1.0	"		ND				30	
1,2-Dichlorobenzene	ND	1.0	"		ND				30	
1,3-Dichlorobenzene	ND	1.0	"		ND				30	
1,4-Dichlorobenzene	ND	1.0	"		ND				30	
Dichlorodifluoromethane	ND	1.0	"		ND				30	
1,1-Dichloroethane	ND	1.0	"		ND				30	
1,2-Dichloroethane	ND	1.0	"		ND				30	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/16/07 17:45

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7071005 - Canister Analysis										
Duplicate (7071005-DUP1)		**Source: T700866-01**		Prepared: 07/10/07 Analyzed: 07/11/07						
1,1-Dichloroethene	ND	1.0	ppb(v)		ND				30	
cis-1,2-Dichloroethene	ND	1.0	"		ND				30	
trans-1,2-Dichloroethene	ND	1.0	"		ND				30	
1,2-Dichloropropane	ND	1.0	"		ND				30	
cis-1,3-Dichloropropene	ND	1.0	"		ND				30	
trans-1,3-Dichloropropene	ND	1.0	"		ND				30	
4-Ethyltoluene	11.3	1.0	"		11.7			3.85	30	
Methylene chloride	ND	1.0	"		ND				30	
Styrene	ND	1.0	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	1.0	"		ND				30	
Tetrachloroethene	4.31	1.0	"		4.00			7.49	30	
Tetrahydrofuran	85.2	1.0	"		89.0			4.39	30	
1,1,2-Trichloroethane	ND	1.0	"		ND				30	
1,1,1-Trichloroethane	ND	1.0	"		ND				30	
Trichloroethene	ND	1.0	"		ND				30	
Trichlorofluoromethane	ND	1.0	"		ND				30	
1,3,5-Trimethylbenzene	10.4	1.0	"		11.2			7.61	30	
1,2,4-Trimethylbenzene	11.1	1.0	"		11.9			7.12	30	
Vinyl acetate	ND	1.0	"		ND				30	
Vinyl chloride	12.8	1.0	"		12.7			1.05	30	
1,4-Dioxane	ND	5.0	"		ND				30	
2-Butanone (MEK)	34.8	5.0	"		39.6			12.8	30	
Methyl isobutyl ketone	ND	10	"		ND				30	
Benzene	ND	1.0	"		ND				30	
Toluene	2.64	1.0	"		2.44			7.86	30	
Ethylbenzene	0.888	1.0	"		0.888			0.00	30	
m,p-Xylene	15.5	2.0	"		15.8			2.13	30	
o-Xylene	9.75	1.0	"		10.0			2.70	30	

Notes and Definitions

TO-14	TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

23 July 2007

Sharon Wallin
CDM -- Irvine
18581 Teller Ave., Suite 200
Irvine, CA 92612

RE: Omega

Enclosed are the results of analyses for samples received by the laboratory on 07/11/07 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Albert Vargas
Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/23/07 19:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GAC-Outlet-VE7S8S-071107	T700887-01	Air	07/11/07 14:45	07/11/07 16:00
GAC-Influent-VE7S8S-071107	T700887-02	Air	07/11/07 14:45	07/11/07 16:00

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/23/07 19:09

GAC-Outlet-VE7S8S-071107
T700887-01 (Air)

SunStar Laboratories, Inc.

TO-15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acetone	ND	5.0	ppb(v)	1	7071709	07/12/07	07/19/07	TO-15	
1,3-Butadiene	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Heptane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	**5800**	1.0	"	5.41	"	"	07/20/07	"	
cis-1,2-Dichloroethene	ND	1.0	"	1	"	"	07/19/07	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	**310**	1.0	"	5.41	"	"	07/20/07	"	
Styrene	ND	1.0	"	1	"	"	07/19/07	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**53**	1.0	"	"	"	"	"	"	
Tetrahydrofuran	**33**	1.0	"	5.41	"	"	07/20/07	"	
1,1,2-Trichloroethane	ND	1.0	"	1	"	"	07/19/07	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**2.0**	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/23/07 19:09

GAC-Outlet-VE7S8S-071107
T700887-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
Trichlorofluoromethane	ND	1.0	ppb(v)	1	7071709	07/12/07	07/19/07	TO-15	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**28**	1.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
2-Butanone (MEK)	**13**	5.0	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.3 %*	*40-160*		*"*	*"*	*"*	*"*	

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/23/07 19:09

GAC-Influent-VE7S8S-071107
T700887-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**TO-14**
Acetone	ND	50	ppb(v)	1.31	7071709	07/12/07	07/19/07	TO-15	
1,3-Butadiene	ND	50	"	"	"	"	"	"	
Carbon disulfide	ND	50	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	50	"	"	"	"	"	"	
Isopropyl alcohol	ND	50	"	"	"	"	"	"	
Bromodichloromethane	ND	50	"	"	"	"	"	"	
Bromoform	ND	50	"	"	"	"	"	"	
Bromomethane	ND	50	"	"	"	"	"	"	
Carbon tetrachloride	ND	50	"	"	"	"	"	"	
Chlorobenzene	ND	50	"	"	"	"	"	"	
Chloroethane	ND	50	"	"	"	"	"	"	
Chloroform	**2500**	50	"	"	"	"	"	"	
Chloromethane	ND	50	"	"	"	"	"	"	
Cyclohexane	ND	50	"	"	"	"	"	"	
Hexane	ND	50	"	"	"	"	"	"	
Dibromochloromethane	ND	50	"	"	"	"	"	"	
Heptane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	50	"	"	"	"	"	"	
1,1-Dichloroethane	**1600**	50	"	"	"	"	"	"	
1,2-Dichloroethane	**1300**	50	"	"	"	"	"	"	
1,1-Dichloroethene	**34000**	50	"	34.2	"	"	"	"	
cis-1,2-Dichloroethene	ND	50	"	1.31	"	"	"	"	
trans-1,2-Dichloroethene	**1600**	50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
Methylene chloride	**310**	50	"	"	"	"	"	"	
Styrene	ND	50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	50	"	"	"	"	"	"	
Tetrachloroethene	**500000**	50	"	34.2	"	"	"	"	
Tetrahydrofuran	**150**	50	"	1.31	"	"	"	"	
1,1,2-Trichloroethane	**370**	50	"	"	"	"	"	"	
1,1,1-Trichloroethane	**4900**	50	"	"	"	"	"	"	
Trichloroethene	**26000**	50	"	34.2	"	"	"	"	
Trichlorofluoromethane	**2800**	50	"	1.31	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/23/07 19:09

GAC-Influent-VE7S8S-071107
T700887-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**TO-14**
1,3,5-Trimethylbenzene	ND	50	ppb(v)	1.31	7071709	07/12/07	07/19/07	TO-15	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
Vinyl acetate	ND	50	"	"	"	"	"	"	
Vinyl chloride	ND	50	"	"	"	"	"	"	
1,4-Dioxane	**550**	50	"	"	"	"	"	"	
2-Butanone (MEK)	ND	50	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	50	"	"	"	"	"	"	
Benzene	**340**	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
m,p-Xylene	ND	50	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7071709 - Canister Analysis										
Blank (7071709-BLK1)				Prepared: 07/17/07 Analyzed: 07/19/07						
Surrogate: 4-Bromofluorobenzene	*5.65*		*ppb(v)*	*6.25*		*90.4*	*40-160*			
Acetone	ND	5.0	"							
1,3-Butadiene	ND	2.0	"							
Carbon disulfide	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"							
Isopropyl alcohol	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	5.0	"							
Cyclohexane	ND	1.0	"							
Hexane	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
Heptane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
4-Ethyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Tetrahydrofuran	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/23/07 19:09

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7071709 - Canister Analysis										
Blank (7071709-BLK1)				Prepared: 07/17/07 Analyzed: 07/19/07						
Trichlorofluoromethane	ND	1.0	ppb(v)							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
1,4-Dioxane	ND	5.0	"							
2-Butanone (MEK)	ND	5.0	"							
Methyl isobutyl ketone	ND	10	"							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Duplicate (7071709-DUP1)		**Source: T700909-02**		Prepared: 07/17/07 Analyzed: 07/19/07						
Surrogate: 4-Bromofluorobenzene	*7.70*		*ppb(v)*	*6.25*		*123*	*40-160*			
Acetone	4.47	5.0	"		4.22			5.66	30	
1,3-Butadiene	ND	2.0	"		ND				30	
Carbon disulfide	ND	1.0	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"		ND				30	
Isopropyl alcohol	9.23	1.0	"		ND				30	
Bromodichloromethane	ND	1.0	"		ND				30	
Bromoform	ND	1.0	"		ND				30	
Bromomethane	ND	1.0	"		ND				30	
Carbon tetrachloride	ND	1.0	"		ND				30	
Chlorobenzene	ND	1.0	"		ND				30	
Chloroethane	ND	1.0	"		ND				30	
Chloroform	ND	1.0	"		ND				30	
Chloromethane	ND	5.0	"		ND				30	
Cyclohexane	ND	1.0	"		ND				30	
Hexane	ND	1.0	"		ND				30	
Dibromochloromethane	ND	1.0	"		ND				30	
Heptane	ND	1.0	"		ND				30	
1,2-Dibromoethane (EDB)	ND	1.0	"		ND				30	
1,2-Dichlorobenzene	ND	1.0	"		ND				30	
1,3-Dichlorobenzene	ND	1.0	"		ND				30	
1,4-Dichlorobenzene	ND	1.0	"		ND				30	
Dichlorodifluoromethane	ND	1.0	"		ND				30	
1,1-Dichloroethane	ND	1.0	"		ND				30	
1,2-Dichloroethane	ND	1.0	"		ND				30	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/23/07 19:09

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7071709 - Canister Analysis										
Duplicate (7071709-DUP1)		**Source: T700909-02**		Prepared: 07/17/07 Analyzed: 07/19/07						
1,1-Dichloroethene	ND	1.0	ppb(v)		ND				30	
cis-1,2-Dichloroethene	ND	1.0	"		ND				30	
trans-1,2-Dichloroethene	ND	1.0	"		ND				30	
1,2-Dichloropropane	ND	1.0	"		ND				30	
cis-1,3-Dichloropropene	ND	1.0	"		ND				30	
trans-1,3-Dichloropropene	ND	1.0	"		ND				30	
4-Ethyltoluene	ND	1.0	"		ND				30	
Methylene chloride	ND	1.0	"		ND				30	
Styrene	ND	1.0	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	1.0	"		ND				30	
Tetrachloroethene	8.41	1.0	"		9.72			14.4	30	
Tetrahydrofuran	ND	1.0	"		ND				30	
1,1,2-Trichloroethane	ND	1.0	"		ND				30	
1,1,1-Trichloroethane	ND	1.0	"		ND				30	
Trichloroethene	14.5	1.0	"		16.3			11.5	30	
Trichlorofluoromethane	ND	1.0	"		ND				30	
1,3,5-Trimethylbenzene	ND	1.0	"		ND				30	
1,2,4-Trimethylbenzene	ND	1.0	"		ND				30	
Vinyl acetate	ND	1.0	"		ND				30	
Vinyl chloride	ND	1.0	"		ND				30	
1,4-Dioxane	ND	5.0	"		ND				30	
2-Butanone (MEK)	4.82	5.0	"		5.23			8.24	30	
Methyl isobutyl ketone	ND	10	"		ND				30	
Benzene	ND	1.0	"		ND				30	
Toluene	1.47	1.0	"		1.58			7.21	30	
Ethylbenzene	ND	1.0	"		ND				30	
m,p-Xylene	ND	2.0	"		ND				30	
o-Xylene	ND	1.0	"		ND				30	

Notes and Definitions

TO-14	TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

25 July 2007

Sharon Wallin
CDM -- Irvine
18581 Teller Ave., Suite 200
Irvine, CA 92612

RE: Omega

Enclosed are the results of analyses for samples received by the laboratory on 07/18/07 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Albert Vargas
Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/25/07 13:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GAC-INFLUENT-VE7S8S	T700915-01	Air	07/18/07 14:30	07/18/07 16:00
GAC-OUTLET-VE7S8S	T700915-02	Air	07/18/07 14:30	07/18/07 16:00

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/25/07 13:22

GAC-INFLUENT-VE7S8S
T700915-01 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									**TO-14**
Acetone	ND	50	ppb(v)	1.48	7071709	07/19/07	07/20/07	TO-15	
1,3-Butadiene	ND	50	"	"	"	"	"	"	
Carbon disulfide	ND	50	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	50	"	"	"	"	"	"	
Isopropyl alcohol	ND	50	"	"	"	"	"	"	
Bromodichloromethane	ND	50	"	"	"	"	"	"	
Bromoform	ND	50	"	"	"	"	"	"	
Bromomethane	ND	50	"	"	"	"	"	"	
Carbon tetrachloride	ND	50	"	"	"	"	"	"	
Chlorobenzene	ND	50	"	"	"	"	"	"	
Chloroethane	ND	50	"	"	"	"	"	"	
Chloroform	**2500**	50	"	"	"	"	"	"	
Chloromethane	ND	50	"	"	"	"	"	"	
Cyclohexane	ND	50	"	"	"	"	"	"	
Hexane	ND	50	"	"	"	"	"	"	
Dibromochloromethane	ND	50	"	"	"	"	"	"	
Heptane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	50	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	50	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	50	"	"	"	"	"	"	
1,1-Dichloroethane	**1400**	50	"	"	"	"	"	"	
1,2-Dichloroethane	**1300**	50	"	"	"	"	"	"	
1,1-Dichloroethene	**28000**	50	"	41.2	"	"	07/20/07	"	
cis-1,2-Dichloroethene	**98**	50	"	1.48	"	"	07/20/07	"	
trans-1,2-Dichloroethene	**1400**	50	"	"	"	"	"	"	
1,2-Dichloropropane	ND	50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	50	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
Methylene chloride	**450**	50	"	"	"	"	"	"	
Styrene	ND	50	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	50	"	"	"	"	"	"	
Tetrachloroethene	**480000**	50	"	41.2	"	"	07/20/07	"	
Tetrahydrofuran	**150**	50	"	1.48	"	"	07/20/07	"	
1,1,2-Trichloroethane	**330**	50	"	"	"	"	"	"	
1,1,1-Trichloroethane	**5000**	50	"	"	"	"	"	"	
Trichloroethene	**22000**	50	"	41.2	"	"	07/20/07	"	
Trichlorofluoromethane	**2400**	50	"	1.48	"	"	07/20/07	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/25/07 13:22

GAC-INFLUENT-VE7S8S
T700915-01 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									**TO-14**
1,3,5-Trimethylbenzene	ND	50	ppb(v)	1.48	7071709	07/19/07	07/20/07	TO-15	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
Vinyl acetate	ND	50	"	"	"	"	"	"	
Vinyl chloride	ND	50	"	"	"	"	"	"	
1,4-Dioxane	**600**	50	"	"	"	"	"	"	
2-Butanone (MEK)	ND	50	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	50	"	"	"	"	"	"	
Benzene	**310**	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
m,p-Xylene	ND	50	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/25/07 13:22

GAC-OUTLET-VE7S8S
T700915-02 (Air)

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TO-15									
Acetone	ND	5.0	ppb(v)	1	7071709	07/19/07	07/19/07	TO-15	
1,3-Butadiene	ND	2.0	"	"	"	"	"	"	
Carbon disulfide	ND	1.0	"	"	"	"	"	"	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"	"	"	"	"	"	
Isopropyl alcohol	**5.3**	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	1.0	"	"	"	"	"	"	
Hexane	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
Heptane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	**1.2**	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	**2.2**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**3.6**	1.0	"	"	"	"	"	"	
Tetrahydrofuran	**34**	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	**2.7**	1.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/25/07 13:22

GAC-OUTLET-VE7S8S
T700915-02 (Air)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SunStar Laboratories, Inc.									
TO-15									
1,3,5-Trimethylbenzene	ND	1.0	ppb(v)	1	7071709	07/19/07	07/19/07	TO-15	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl acetate	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**19**	1.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
2-Butanone (MEK)	**6.8**	5.0	"	"	"	"	"	"	
Methyl isobutyl ketone	ND	10	"	"	"	"	"	"	
Benzene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.6 %*	*40-160*		*"*	*"*	*"*	*"*	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/25/07 13:22

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7071709 - Canister Analysis										
Blank (7071709-BLK1)				Prepared: 07/17/07 Analyzed: 07/19/07						
Surrogate: 4-Bromofluorobenzene	*5.65*		*ppb(v)*	*6.25*		*90.4*	*40-160*			
Acetone	ND	5.0	"							
1,3-Butadiene	ND	2.0	"							
Carbon disulfide	ND	1.0	"							
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"							
Isopropyl alcohol	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	5.0	"							
Cyclohexane	ND	1.0	"							
Hexane	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
Heptane	ND	1.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
4-Ethyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Tetrahydrofuran	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							

SunStar Laboratories, Inc.

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

Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/25/07 13:22

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7071709 - Canister Analysis										
Blank (7071709-BLK1)				Prepared: 07/17/07 Analyzed: 07/19/07						
Trichlorofluoromethane	ND	1.0	ppb(v)							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl acetate	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
1,4-Dioxane	ND	5.0	"							
2-Butanone (MEK)	ND	5.0	"							
Methyl isobutyl ketone	ND	10	"							
Benzene	ND	1.0	"							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
m,p-Xylene	ND	2.0	"							
o-Xylene	ND	1.0	"							
Duplicate (7071709-DUP1)		**Source: T700909-02**		Prepared: 07/17/07 Analyzed: 07/19/07						
Surrogate: 4-Bromofluorobenzene	*7.70*		*ppb(v)*	*6.25*		*123*	*40-160*			
Acetone	4.47	5.0	"		4.22			5.66	30	
1,3-Butadiene	ND	2.0	"		ND				30	
Carbon disulfide	ND	1.0	"		ND				30	
1,1,2-trichloro-1,2,2-trifluoroethane (CFC 113)	ND	1.0	"		ND				30	
Isopropyl alcohol	9.23	1.0	"		ND				30	
Bromodichloromethane	ND	1.0	"		ND				30	
Bromoform	ND	1.0	"		ND				30	
Bromomethane	ND	1.0	"		ND				30	
Carbon tetrachloride	ND	1.0	"		ND				30	
Chlorobenzene	ND	1.0	"		ND				30	
Chloroethane	ND	1.0	"		ND				30	
Chloroform	ND	1.0	"		ND				30	
Chloromethane	ND	5.0	"		ND				30	
Cyclohexane	ND	1.0	"		ND				30	
Hexane	ND	1.0	"		ND				30	
Dibromochloromethane	ND	1.0	"		ND				30	
Heptane	ND	1.0	"		ND				30	
1,2-Dibromoethane (EDB)	ND	1.0	"		ND				30	
1,2-Dichlorobenzene	ND	1.0	"		ND				30	
1,3-Dichlorobenzene	ND	1.0	"		ND				30	
1,4-Dichlorobenzene	ND	1.0	"		ND				30	
Dichlorodifluoromethane	ND	1.0	"		ND				30	
1,1-Dichloroethane	ND	1.0	"		ND				30	
1,2-Dichloroethane	ND	1.0	"		ND				30	

SunStar Laboratories, Inc.

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Albert Vargas, Project Coordinator

CDM -- Irvine	Project: Omega	
18581 Teller Ave., Suite 200	Project Number: 10500	**Reported:**
Irvine CA, 92612	Project Manager: Sharon Wallin	07/25/07 13:22

TO-15 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7071709 - Canister Analysis										
Duplicate (7071709-DUP1)		**Source: T700909-02**		Prepared: 07/17/07 Analyzed: 07/19/07						
1,1-Dichloroethene	ND	1.0	ppb(v)		ND				30	
cis-1,2-Dichloroethene	ND	1.0	"		ND				30	
trans-1,2-Dichloroethene	ND	1.0	"		ND				30	
1,2-Dichloropropane	ND	1.0	"		ND				30	
cis-1,3-Dichloropropene	ND	1.0	"		ND				30	
trans-1,3-Dichloropropene	ND	1.0	"		ND				30	
4-Ethyltoluene	ND	1.0	"		ND				30	
Methylene chloride	ND	1.0	"		ND				30	
Styrene	ND	1.0	"		ND				30	
1,1,2,2-Tetrachloroethane	ND	1.0	"		ND				30	
Tetrachloroethene	8.41	1.0	"		9.72			14.4	30	
Tetrahydrofuran	ND	1.0	"		ND				30	
1,1,2-Trichloroethane	ND	1.0	"		ND				30	
1,1,1-Trichloroethane	ND	1.0	"		ND				30	
Trichloroethene	14.5	1.0	"		16.3			11.5	30	
Trichlorofluoromethane	ND	1.0	"		ND				30	
1,3,5-Trimethylbenzene	ND	1.0	"		ND				30	
1,2,4-Trimethylbenzene	ND	1.0	"		ND				30	
Vinyl acetate	ND	1.0	"		ND				30	
Vinyl chloride	ND	1.0	"		ND				30	
1,4-Dioxane	ND	5.0	"		ND				30	
2-Butanone (MEK)	4.82	5.0	"		5.23			8.24	30	
Methyl isobutyl ketone	ND	10	"		ND				30	
Benzene	ND	1.0	"		ND				30	
Toluene	1.47	1.0	"		1.58			7.21	30	
Ethylbenzene	ND	1.0	"		ND				30	
m,p-Xylene	ND	2.0	"		ND				30	
o-Xylene	ND	1.0	"		ND				30	

Notes and Definitions

TO-14	TO-15 analysis of sample was not performed due to high concentration of analyte(s). Sample was analyzed utilizing method TO-14 and reporting limit has been adjusted accordingly.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Appendix D
Radius of Influence Graphs

Figure D-1
Estimated ROI Operating at VE-6S
Omega Chemical Superfund Site

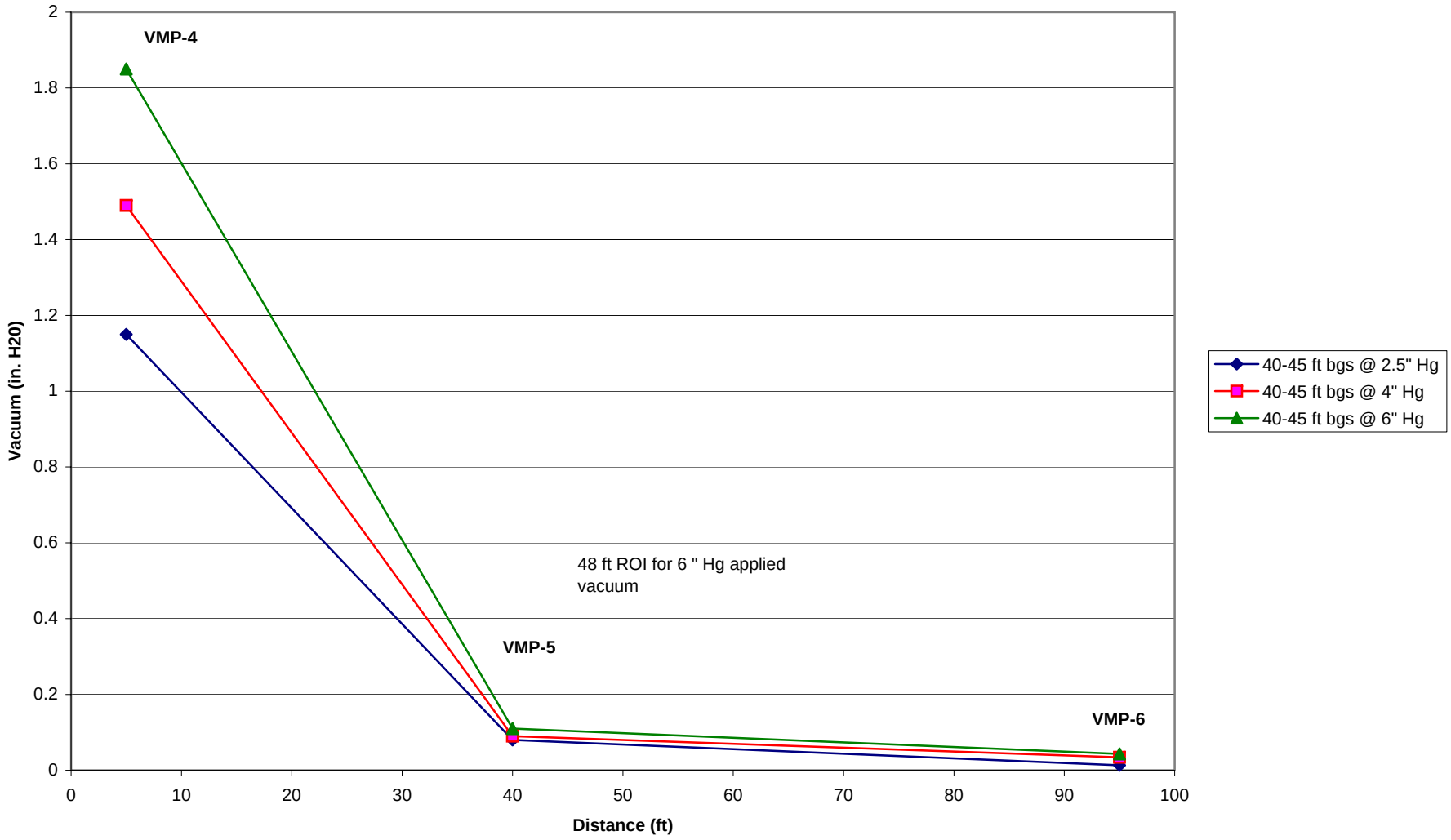

Figure D-2
Estimated ROI Operating at VE-7S
Omega Chemical Superfund Site

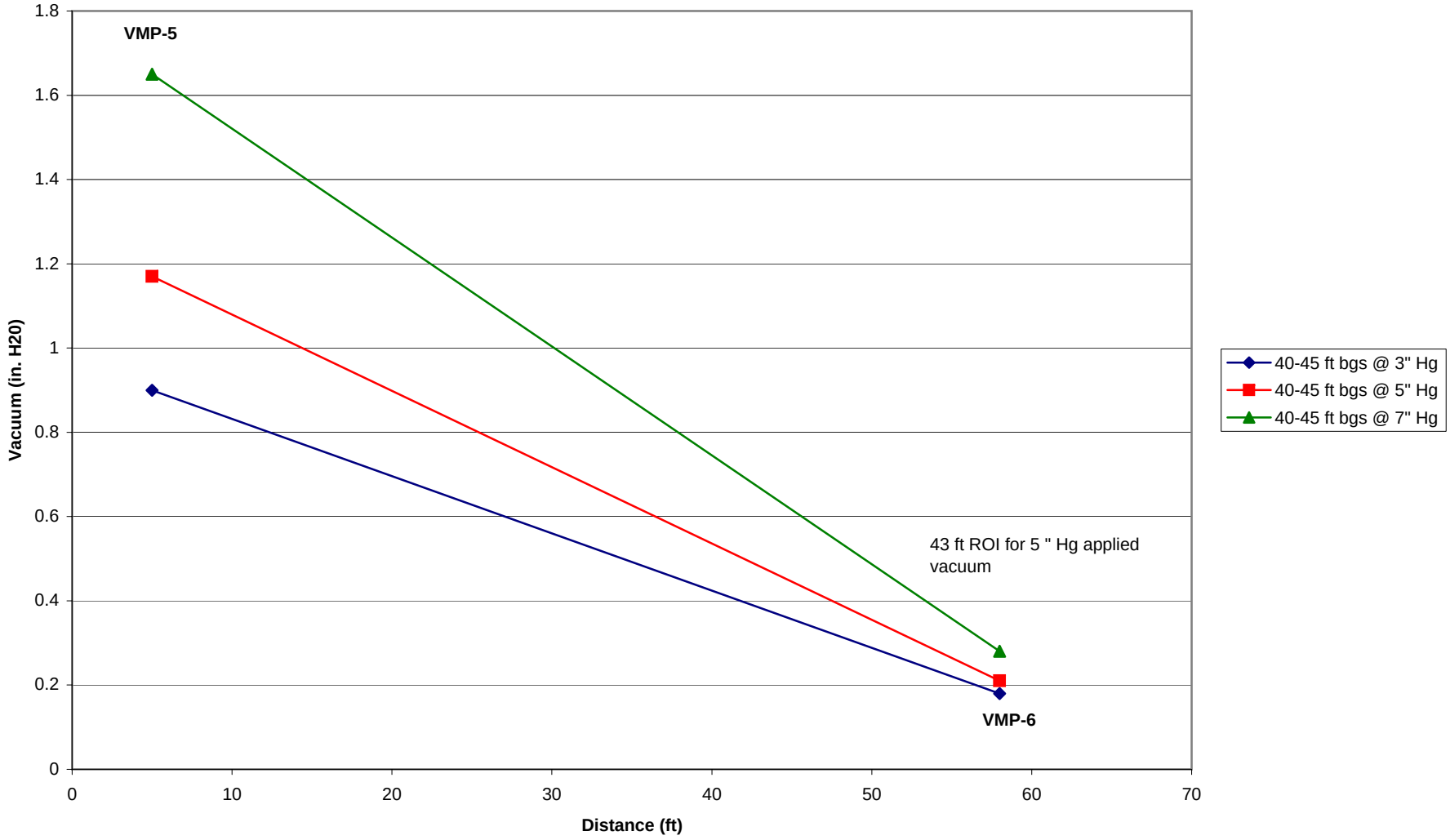
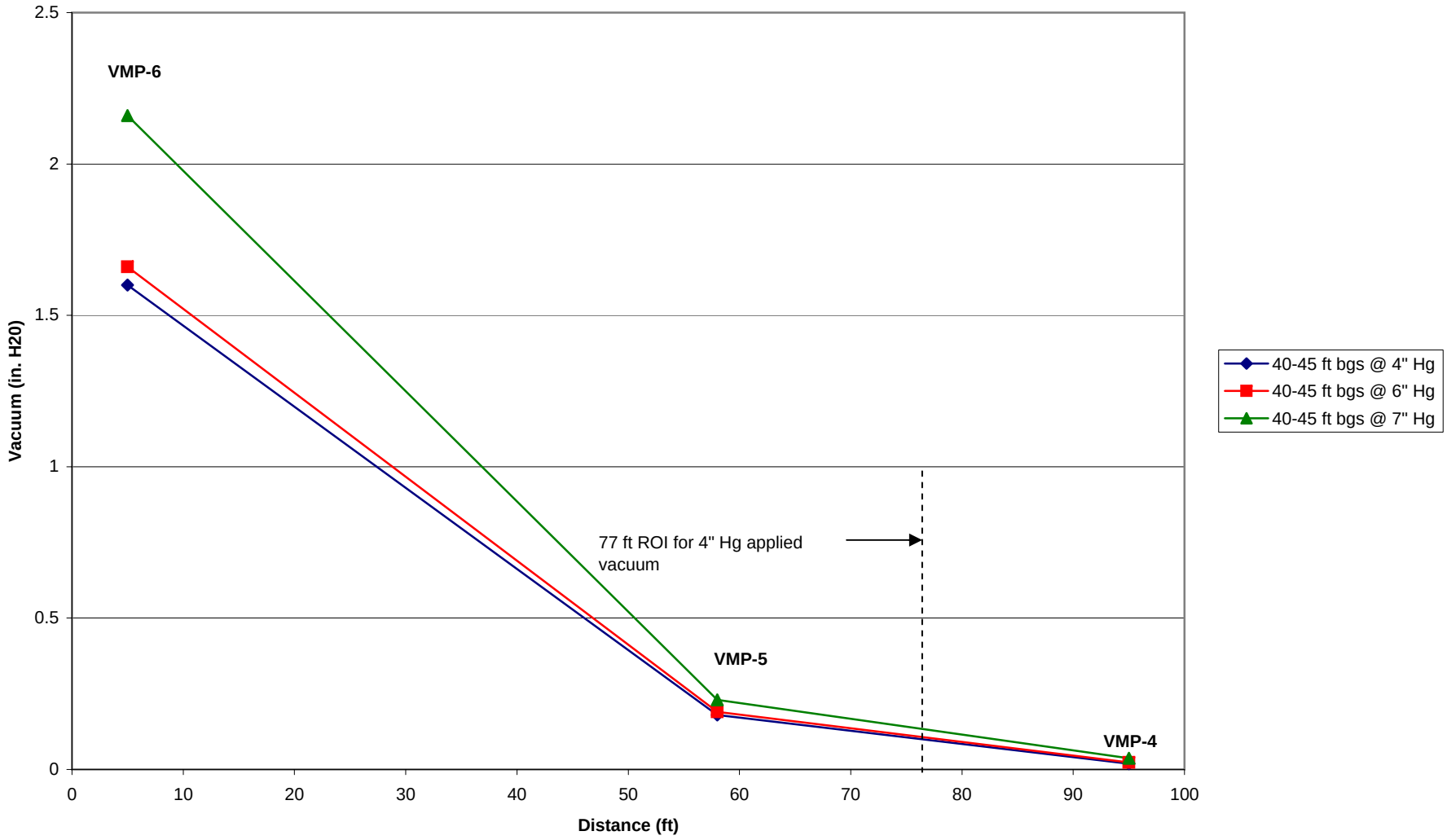
Figure D-3
Estimated ROI Operating at VE-8S
Omega Chemical Superfund Site