Golder Associates Inc.

5200 Pasadena N.E., Suite C
Albuquerque, NM USA 87113
Telephone (505) 821-3043
Fax (505) 821-5273
www.golder.com

Golder Associates

2nd QUARTERLY GROUNDWATER MONITORING REPORT (FORM 1216) LOVINGTON 66, PSTB FACILITY #890 503 SOUTH MAIN STREET LOVINGTON, NEW MEXICO

Submitted to:

NMED PSTB

On Behalf of:

Jack Walstad Oil Company
c/o Maddox, Holloman & Kirksey P.C.
205 East Bender, Ste. 150
Hobbs, New Mexico 88241

Submitted by:

Golder Associates Inc.
5200 Pasadena NE, Ste. C
Albuquerque, NM 87113

Distribution:

1 Copy – NMED-PSTB
1 Copy – Jim Maddox, Maddox, Holloman & Kirksey P.C.
2 Copies - Golder Associates Inc., Albuquerque

March 20, 2008 073-80008

STATEMENT OF FAMILIARITY

I, the undersigned, am personally familiar with the information submitted in this report and the attached documents and attest that it is true and complete.

Signature: 

Name: Teresa McMillan
Affiliation: Golder Associates Inc.
Title: Senior Scientist
Date: March 20, 2008

I. INTRODUCTION

On behalf of Allsup Petroleum Inc., Golder Associates Inc. (Golder) has completed the second quarterly groundwater monitoring event at the former Lovington 66 located at 424 South Main, Lovington, New Mexico. The monitoring event was completed in accordance with the *Work Plan for Phase 1 Secondary Investigation activities consisting of monitoring well installation, bail down test and quarterly groundwater monitoring at the Lovington 66 site, Lovington, New Mexico* prepared by Golder to satisfy the requirements stated in the New Mexico Administrative Code, Title 20, Chapter 5, Section 12 and the New Mexico Environment Department (NMED) Petroleum Storage Tank Bureau (PSTB) Guidelines for Corrective Action (GCA). The work plan was approved by the NMED PSTB on July 30, 2007 under work plan identification number (WPID #) 14975. This is the third deliverable under WPID #14975-3.

The former Lovington 66 site is located at 424 South Main in Lovington, New Mexico (Figure 1). The site topography is relatively flat. The site is bounded by Highway 83/Avenue D on the south and Main Street on the east. North of the site is Avenue C and west of the site is commercial property. Southeast of the site is an Allsup's convenience store and self-service gasoline station, which is also a leaking underground storage tank site. A self service gasoline service station is located south of the site. The original Lovington 66 building has been demolished, and presently a McDonald's restaurant is located on the property. The former Lovington 66 was located on the southern portion of the property that now is a parking lot associated with McDonald's. The Lovington 66 dissolved phase plume has migrated across the intersection and is commingled with the Allsup's 109 site.

On February 13th and 14th 2008, fluid levels were measured in eighteen Lovington 66 monitoring wells (V-1, W-1, W-2, W-3, W-5, W-7, W-8, W-9, W-11, W-12, W-13, W-14, W-15, W-16, W-18, W-19, W-20, and W-21) and groundwater samples were collected from nine Walstad monitoring wells (W-5, W-8, W-9, W-11, W-14, W-16, W-19, W-20, and W-21). Groundwater samples were analyzed for volatile organic compounds (VOCs), including benzene, toluene, ethylbenzene, and xylenes (BTEX), ethylene dichloride (EDC), methyl tertiary butyl ether (MTBE), and total naphthalenes by Environmental Protection Agency (EPA) Method 8260. In addition, pH, specific conductance, dissolved oxygen (DO), and temperature were monitored in the field.

This report summarizes the results of the monitoring event.

II. ACTIVITIES PERFORMED DURING THIS QUARTER

This section provides a brief description of monitoring activities performed during this monitoring period.

A. Brief Description of Remediation System and Date Installed

A remediation system has not been installed at this site. A summary of corrective action activities that have occurred follows:

- July 1991 – AEI Tank, Inc. (AEI) conducted a site assessment where seven soil borings were advanced within the UST backfill or UST perimeter, and five borings were placed in or near product pipe trenches. Hydrocarbon contamination was observed.

- November 1991 – AEI removed five USTs that contained diesel, unleaded fuels, and used oil and the associated product piping and fuel dispensers. Hydrocarbon contamination was observed in the location of the dispensers and the location of the diesel tank. It was determined that a release likely occurred from overfilling the USTs and from the dispensers and product lines (a large section of product piping had been replaced).

- November and December 1991 – AEI excavated approximately 600 cubic yards of contaminated soil from product line trenches, dispenser islands and tank excavations.

- December 1991 – AEI attempted to delineate the vertical extent of contamination by installing one soil boring. The location of this soil boring was never documented. During the drilling of the boring auger refusal was encountered at 40 feet below ground surface (bgs).

- February 1992 – AEI installed one groundwater monitoring well. Groundwater sample results indicated that groundwater contamination was present above the New Mexico Water Quality Control Commission (NMWQCC) standards.

- March 1992 – AEI installed two additional monitor wells to determine the extent of dissolved phase hydrocarbon contamination. Both wells had dissolved phase hydrocarbon concentrations well above the NMWQCC standards.

- June 1992 – Billings & Associates, Inc (BAI) completed an Interim Hydrogeologic Investigation Report (On-site). During this investigation six soil borings (B-4 through B-9) were advanced at the site to a depth of 40 feet bgs. Heated headspace measurements above action levels were present in all borings except B-8. NAPL was present in the three monitor wells installed by AEI. Three additional monitor wells W-4, W-5, and W-6 were installed. The three new wells exceeded the NMWQCC standards.

- September 1993 – BAI completed a 2nd Interim Hydrogeologic Investigation Report. During this investigation free product recovery efforts commenced using BAI's Product Recovery Filter system. In addition six new monitor wells (W-7 through W-12) and one vertical extent well, V-1, were installed.

- June 1993 – BAI submitted the 3rd Interim Hydrogeologic Investigation Report. Five wells (W-13 through W-17) were installed to delineate the dissolved phase plume. NAPL was present in the vertical extent well V-1, which Billings attributed to leaking casing.

- August 2006 – Golder sampled the Lovington 66 wells as part of an investigation conducted at the Allsup's 109 located downgradient from the Lovington 66 site.

- November 2007 – Golder completed a continued secondary investigation in which three downgradient wells (W-19, W-20, and W-21) were installed and a NAPL bail down test was completed. The downgradient extent of contamination was delineated.

B. Description of Activities Performed to Keep System Operating Properly

No active remediation activities have been completed at the site.

C. Monitoring Activities Performed

Groundwater Sampling Activities

Prior to collecting groundwater samples, fluid levels in all existing Lovington 66 wells were gauged with an electronic water level meter or interface probe, except W-10. Well W-10 is located in the middle of Main Street and it was determined that it was a safety risk to gauge this well. Table 1 provides a summary of the groundwater gauging data collected from the monitoring network. A potentiometric surface map (Figure 2) was constructed based on the collected data. Hydrographs for the monitor wells are provided in Appendix A.

On February 13th and 14th 2008, nine Walstad monitoring wells were purged and sampled with disposable polyethylene bailer. Wells were sampled from clean to dirty to the extent possible to minimize cross-contamination. All equipment was decontaminated between wells with an Alconox™ solution to further ensure sample quality. Purge water was ground discharged in accordance with Section 1.7.2 of the GCA. Sampling was accomplished by carefully pouring groundwater from new disposable bailers into the sample containers.

Golder measured field parameters (pH, specific conductance and temperature) with a Hanna HI 991300 water quality meter during purging and prior to sampling. Dissolved oxygen was measured from the first bailer retrieved using a Chemetrics V-2000 meter. Specific conductance, dissolved oxygen, pH, and temperature were recorded on monitoring well sampling field forms. The meters were calibrated and/or checked against a standard in accordance with manufacturer's specifications prior to use. Monitoring well sampling field forms are provided in Appendix B.

Sample containers, preservatives, analytical methods, and holding times are specified in Table 2. Samples for VOC analysis were collected such that no headspace existed in the sample vial. All samples were preserved in accordance with method requirements, then immediately cooled to 4°C with ice and delivered under chain-of-custody to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The analytical laboratory report is provided in Appendix C.

NAPL

NAPL was observed in four Walstad monitor wells (V-1, W-1, W-2, and W-3). In November 2007 a bail down test was conducted on two wells, W-2 and W-3. Prior to performing the bail down test there was over three feet of product in W-2 and W-3. At the conclusion of the bail down test NAPL thicknesses in both W-2 and W-3 were 0.08 feet. During this monitoring event, there was 0.31 feet of product in W-2 and 0.13 feet of product in W-3. After three months, NAPL has not recovered to pre-bail down thicknesses in either W-2 or W-3. The other two wells, V-1 and W-1, that were not included in the bail down test had 4.57 feet and 3.16 feet of product, respectively.

Groundwater Sampling Results

During this sampling event, the dissolved phase hydrocarbon concentrations were at or above New Mexico Water Quality Control Commissions (NMWQCC) standards in seven of the nine monitor wells sampled, with W-14 having the highest benzene concentration of 30,000 µg/L. Wells W-8 and W-14 had BTEX, MTBE, EDC and total naphthalenes concentrations above standards. Well MW-9 had benzene, ethyl benzene, EDC, and total naphthalenes concentration above standard. W-16 had Benzene and EDC concentrations above standards. W-5 had benzene and MTBE concentrations above standard, and W-11 had MTBE and EDC concentrations over standards. W-19 had EDC concentration of 10 µg/L, which is the NMWQCC standard for EDC. W-20 and W-21 were below NMWQCC standards for all compounds analyzed. Figure 3 illustrates the distribution of organic contaminants in groundwater. The laboratory analytical results for select organic compounds are summarized in Table 3.

D. System Performance and Effectiveness

No system has been installed at the site.

E. Statement Verifying Containment of Release

The Lovington 66 dissolved phase plume has migrated southeast across the intersection of Avenue D and Main Street to Avenue E. The NAPL plume appears to have migrated beneath the intersection of Avenue

D and Main Street with dissolved phase concentration in W-14 near NAPL levels. The downgradient extent of the dissolved phase plume has been defined by W-20 and W-21.

III. SUMMARY AND CONCLUSIONS

This section summarizes the results, contains a brief discussion of site trends, and provides recommendations for future site activities.

A. Discussion of any Trends or Changes Noted in Analytical Results or Site Conditions

The results of groundwater gauging indicate that water levels have generally fallen slightly when compared to the previous groundwater gauging conducted in November 2008. The overall direction of groundwater flow remains in a southeasterly direction at a gradient of 0.003 foot per foot (Figure 2).

NAPL was observed in four wells, V-1, W-1, W-2, and W-3 with thicknesses ranging from 0.13 feet to 4.57 feet. NAPL thicknesses have not increased significantly in W-2 and W-3 since the final day of the bail down test in November 2007. In fact, neither of these wells has recovered to the pre-bail down test thickness, indicating further that the true NAPL thickness was significantly less than the apparent thickness observed in November 2007. The apparent NAPL thicknesses in wells V-1 and W-1 have remained relatively the same since November 2007.

The February13th and 14th 2008 distribution of dissolved phase organic contaminants is shown on Figure 3. Dissolved phase benzene concentrations in wells MW-8 and MW-14 are at least 1000 times the NMWQCC standard of 10 µg/L. Hydrocarbon concentrations increased in wells W-8 and W-9 since the previous monitoring event in November 2007. Benzene concentration decreased in W-5, W-11, W-16 and W-19. Concentration trends for benzene and MTBE for select wells are included in Appendix D.

The MNA parameters (dissolved oxygen, and temperature) were measured to evaluate the MNA remedy. The February, 13th and 14th 2008 concentrations for MNA parameters are summarized on Table 4 and posted on Figure 4. Copies of the field forms are presented in Appendix B.

B. Ongoing Assessment of Remediation System

No active remediation system has been installed at the site.

C. Recommendations

Based on the results of the groundwater monitoring, the following conclusions and recommendations were prepared:

- Plug and abandon vertical extent well V-1. This well was improperly constructed and NAPL has infiltrated the casing through the joint and has entered the well.
- Perform a soil vapor extraction pilot test. The pilot test will determine SVE parameters to design a Phase 2 SVE NAPL recovery system. In addition the piping that is present below ground surface between W-1, W-2, and W-3 can be tested to determine its viability for use as SVE conveyance lines.
- Perform Phase 2 – NAPL recovery using soil vapor extraction.
- Continue groundwater monitoring.

List of Attachments

Tables 1 through 4

Figures 1 through 4

Appendix A – Hydrographs
Appendix B - Field Forms
Appendix C –Analytical Laboratory Reports
Appendix D – Concentration Trends

TABLES

TABLE 1
SUMMARY OF FLUID GAUGING DATA
LOVINGTON 66, LOVINGTON, NEW MEXICO

Monitor Well	Date Measured	Northing[1]	Easting[1]	Casing Elevation[2]	Depth to Product[3]	Product Thickness[4]	Depth to Water[3]	Groundwater Elevation[2]
Allsup's # 109								
MW-1	7-Nov-2007	708392.73	843467.49	3909.74			53.93	3855.81
	8-Aug-2006						54.36	3855.38
	6-Aug-2005						55.07	3854.67
MW-2	7-Nov-2007	708398.53	843584.18	3910.05			54.58	3855.47
	8-Aug-2006						55.04	3855.01
	6-Aug-2005						55.74	3854.31
MW-3	7-Nov-2007	708484.61	843518.13	3910.14			54.22	3855.92
	8-Aug-2006						54.65	3855.49
	6-Aug-2005						55.33	3854.81
Walstad 66								
V-1	13-Feb-2008	708614.74	843348.54	3910.67	53.01	4.57	57.58	3856.52
	7-Nov-2007				53.01	4.58	57.59	3856.52
	8-Aug-2006				53.32	4.59	57.91	3856.20
	25-May-1993			99.37			56.74	42.63
	29-Aug-1992						56.68	42.69
W-1	13-Feb-2008	708649.18	843347.81	3911.33	53.89	3.16	57.05	3856.65
	7-Nov-2007				53.91	3.11	57.02	3856.64
	8-Aug-2006				54.23	3.15	57.38	3856.31
	24-May-1993				NAPL Present			
	28-Aug-1993				NAPL Present			
	24-Jun-1992				>30" of NAPL Present			
	8-Jun-1992				>30" of NAPL Present			
	12-Feb-1992				0.125" of NAPL Present			
W-2	13-Feb-2008	708625.02	843381.13	3910.19	53.57	0.31	53.88	3856.54
	7-Nov-2007				52.88	3.32	56.20	3856.48
	8-Aug-2006				53.21	5.34	58.55	3855.65
	24-May-1993				NAPL Present			
	28-Aug-1992				NAPL Present			
	24-Jun-1992				>30" of NAPL Present			
	8-Jun-1992				>30" of NAPL Present			
	13-Mar-1992				0.125" of NAPL Present			

TABLE 1
SUMMARY OF FLUID GAUGING DATA
LOVINGTON 66, LOVINGTON, NEW MEXICO

Monitor Well	Date Measured	Northing[1]	Easting[1]	Casing Elevation[2]	Depth to Product[3]	Product Thickness[4]	Depth to Water[3]	Groundwater Elevation[2]
W-3	13-Feb-2008	708597.90	843348.60	3910.29	53.65	0.13	53.78	3856.61
	7-Nov-2007				53.01	3.03	56.04	3856.52
	8-Aug-2006				53.30	3.20	56.50	3856.19
	24-May-1993				NAPL Present			
	28-Aug-1992				NAPL Present			
	24-Jun-1992				>30" of NAPL Present			
	8-Jun-1992				>30" of NAPL Present			
	13-Mar-1992				0.125" of NAPL Present			
W-4	8-Aug-2006	Well Destroyed						
	25-May-1993			99.62			56.48	43.14
	28-Aug-1992						56.69	42.93
	24-Jun-1992						57.04	42.58
W-5	13-Feb-2008	708759.72	843252.39	3911.71			54.63	3857.08
	7-Nov-2007						54.61	3857.10
	8-Aug-2006						54.88	3856.83
	26-May-1993			100.41			57.02	43.39
	28-Aug-1992						57.24	43.17
	24-Jun-1992						57.59	42.82
W-6	8-Aug-2006	Well Destroyed						
	26-May-1993			99.48			56.49	42.99
	28-Aug-1992						56.64	42.84
	24-Jun-1992						56.97	42.51
W-7	12-Feb-2008	708910.73	843120.52	3910.88			53.33	3857.55
	7-Nov-2007	708911.67	843120.56	3911.35			53.48	3857.87
	8-Aug-2006						53.74	3857.61
	25-May-1993			100.07			55.96	44.11
	28-Aug-1992						56.29	43.78
W-8	13-Feb-2008	708389.76	843640.62	3909.92			54.79	3855.13
	7-Nov-2007						54.65	3855.27
	8-Aug-2006						55.11	3854.81
	25-May-1993			98.69			57.20	41.49
	28-Aug-1992						57.24	41.45

TABLE 1
SUMMARY OF FLUID GAUGING DATA
LOVINGTON 66, LOVINGTON, NEW MEXICO

Monitor Well	Date Measured	Northing[1]	Easting[1]	Casing Elevation[2]	Depth to Product[3]	Product Thickness[4]	Depth to Water[3]	Groundwater Elevation[2]
W-9	13-Feb-2008	708267.18	843790.26	3908.72			54.31	3854.41
	7-Nov-2007						54.12	3854.60
	8-Aug-2006						54.66	3854.06
	25-May-1993			97.47			56.74	40.73
	28-Aug-1992						56.76	40.71
W-10	13-Feb-2008	Unable to gauge well due to traffic constraints						
	8-Aug-2006	708254.54	843452.92	3908.89			53.79	3855.10
	26-May-1993			97.85			55.80	42.05
	28-Aug-1992						56.18	41.67
W-11	13-Feb-2008	708600.95	843650.96	3909.96			54.41	3855.55
	7-Nov-2007						54.26	3855.70
	8-Aug-2006						54.70	3855.26
	26-May-1993			98.66			56.85	41.81
	28-Aug-1992						56.82	41.84
W-12	12-Feb-2008	708435.38	843045.85	3910.59			53.29	3857.30
	7-Nov-2007						53.72	3856.87
	8-Aug-2006						53.55	3857.04
	26-May-1993			99.34			55.96	43.38
	29-Aug-1992						56.28	43.06
W-13	12-Feb-2008	708915.13	843525.37	3910.36			53.80	3856.56
	7-Nov-2007						53.70	3856.66
	8-Aug-2006						54.01	3856.35
	26-May-1993			99.07			56.25	42.82
	29-Aug-1992						56.36	42.71
W-14	13-Feb-2008	708504.99	843463.76	3909.73			53.80	3855.93
	7-Nov-2007						53.72	3856.01
	8-Aug-2006						54.15	3855.58
	26-May-1993			98.54			56.26	42.28
W-15	12-Feb-2008	708221.99	843030.65	3909.40			53.02	3856.38
	7-Nov-2007	708195.85	843053.51	3909.71			53.11	3856.60
	8-Aug-2006						53.41	3856.30
	26-May-1993			98.49			55.40	43.09

TABLE 1
SUMMARY OF FLUID GAUGING DATA
LOVINGTON 66, LOVINGTON, NEW MEXICO

Monitor Well	Date Measured	Northing[1]	Easting[1]	Casing Elevation[2]	Depth to Product[3]	Product Thickness[4]	Depth to Water[3]	Groundwater Elevation[2]
W-16	13-Feb-2008	708153.28	843364.45	3908.67			53.20	3855.47
	7-Nov-2007						53.06	3855.61
	8-Aug-2006						53.49	3855.18
	26-May-1993			97.44			55.52	41.92
W-17	8-Aug-2006	Well Destroyed						
	26-May-1993			96.94			56.86	40.08
W-18	12-Feb-2008	708697.21	843818.98	3909.38			54.13	3855.25
	7-Nov-2007	708698.11	843818.96	3909.50			54.19	3855.31
	8-Aug-2006						54.60	3854.90
	26-May-1993			98.26			56.79	41.48
W-19	13-Feb-2008	708148.94	843934.18	3908.36			54.51	3853.85
	7-Nov-2007						54.23	3854.13
W-20	13-Feb-2008	707780.85	844187.25	3907.45			54.69	3852.76
	7-Nov-2007						54.29	3853.16
W-21	13-Feb-2008	707988.79	843841.61	3908.49			54.45	3854.04
	7-Nov-2007						54.19	3854.30

Note:

[1] Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)

[2] Vertical Control to NAVD88 Datum in feet above mean sea level

[3] Measured in feet below the top of casing at survey point on north side of well

[4] Measured in feet

TABLE 2
SUMMARY OF SAMPLE ANALYTICAL AND QUALITY CONTROL REQUIREMENTS
LOVINGTON 66, LOVINGTON, NEW MEXICO

Target Analytes	Matrix	Analytical Method	Sample Container	Preservative	Holding Time
VOCs	Water	EPA 8260	3 x 40- mL glass vials	Mercuric Chloride; Cool to 4°C	14 days

Notes:
EPA = U.S. Environmental Protection Agency

TABLE 3
SUMMARY OF GROUNDWATER SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS
LOVINGTON 66, LOVINGTON, NEW MEXICO

Monitor Well	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	EDB	EDC	Total Naphthalenes
W-2	13-Mar-92	29,878	28,953	3,874	13,109	5,921	NA	NA	NA
W-3	13-Mar-92	10,493	8,961	1,253	5,320	5,150	NA	NA	NA
W-4	25-May-93	2,500	980	310	470	<63	NA	NA	NA
	28-Aug-92	1,400	430	95	300	<2.5	NA	NA	NA
	24-Jun-92	200	53	21	40	<5.0	NA	NA	NA
W-5	13-Feb-08	26	1.1	24	<1.5	140	<1.0	<1.0	4.5
	7-Nov-07	45	8.5	29	15	170	<1.0	<1.0	4.9
	9-Aug-06	2.0	<1.0	3.7	<3.0	22	<1.0	<1.0	<2.0
	28-Aug-92	850	400	58	450	3.3	NA	NA	NA
	24-Jun-92	470	250	41	290	<10	NA	NA	NA
W-6	28-Aug-92	3,000	2,700	93	860	<2.5	NA	NA	NA
	24-Jun-92	1,400	1,200	48	500	<25	NA	NA	NA
W-7	7-Nov-07	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0
	8-Aug-06	<1.0	<1.0	<1.0	<3.0	<1.5	<1.0	<1.0	<2.0
	25-May-93	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA
	28-Aug-92	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA
W-8	13-Feb-08	27,000	39,000	4,800	16,000	8,600	670	4,000	1,350
	7-Nov-07	20,000	27,000	3,200	15,000	5,900	440	4,100	770
	9-Aug-06	21,000	29,000	2,600	13,000	6,300	<500	3,700	1,100
	4-Aug-05	27,000	35,000	3,800	18,000	3,700	1,100	4,300	622
	25-May-93	12,000	8,300	1,500	8,800	<250	NA	NA	NA
	28-Aug-92	8,000	9,500	690	5,200	<2.5	NA	NA	NA
W-9	13-Feb-08	7,500	130	910	590	<10	<10	450	129
	7-Nov-07	6,500	120	620	450	<10	<10	360	51
	9-Aug-06	6,700	560	1,200	1,400	<150	<100	650	250
	4-Aug-05	4,300	180	850	830	<1.0	<0.01	320	28.5
	25-May-93	100	6.3	2.5	170	<5.0	NA	NA	NA
	28-Aug-92	130	8.2	16	140	<2.5	NA	NA	NA
W-10*	9-Aug-06	420	<1.0	31	<3.0	22	<1.0	12	121
	4-Aug-05	940	2.6	930	140	2,400	0.11	48	27.1
	28-Aug-92	1,100	11.0	120	440	<2.5	NA	NA	NA
W-11	13-Feb-08	3.2	<1.0	41	5.1	540	<1.0	37	<2.0
	7-Nov-07	18	<1.0	38	13	540	<1.0	35	<2.0
	9-Aug-06	5.0	<1.0	62	44	88	<1.0	33	<2.0
	28-Aug-92	770	13	13	280	<2.5	NA	NA	NA
W-12	8-Aug-06	<1.0	<1.0	<1.0	<3.0	<1.5	<1.0	<1.0	<2.0
	29-Aug-92	87	6.1	2.6	180	<2.5	NA	NA	NA
W-13	8-Aug-06	<1.0	<1.0	<1.0	<3.0	<1.5	<1.0	<1.0	<2.0
	29-Aug-92	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NAA

TABLE 3
SUMMARY OF GROUNDWATER SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS
LOVINGTON 66, LOVINGTON, NEW MEXICO

Monitor Well	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	EDB	EDC	Total Naphthalenes
W-14	13-Feb-08	30,000	23,000	4,900	13,000	4,400	<50	210	1,270
	9-Aug-06	25,000	23,000	4,000	9,500	4,700	<500	<500	1,200
	5-Aug-05	27,000	26,000	4,900	9,500	7,600	3.3	120	413
	26-May-93	6,600	4,300	1,200	4,000	<125	NA	NA	NA
W-15	8-Aug-06	<1.0	<1.0	<1.0	<3.0	<1.5	<1.0	<1.0	<2.0
	26-May-93	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA
W-16	13-Feb-08	630	<1.0	12	8.6	47	<1.0	17	342
	7-Nov-07	640	<1.0	22	12	55	<1.0	23	363
	8-Aug-06	1.3	14	2.9	<3	<1.5	<1.0	<1.0	<2.0
	26-May-93	52	<0.5	7.9	15	<2.5	NA	NA	NA
W-17	26-May-93	<0.5	<0.5	<0.5	<0.5	<2.5	NA	NA	NA
W-18	8-Aug-06	<1.0	<1.0	<1.0	<3.0	<1.5	<1.0	<1.0	<2.0
	26-May-93	1.6	1.8	<0.5	2.0	<2.5	NA	NA	NA
W-19	13-Feb-08	2.4	<1.0	<1.0	<1.5	<1.5	<1.0	10	<2.0
	8-Nov-07	4.3	<1.0	<1.0	<1.5	<1.5	<1.0	23	<2.0
W-20	13-Feb-08	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0
	8-Nov-07	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0
W-21	12-Feb-08	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0
	8-Nov-07	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<1.0	<2.0
V-1	25-May-93	5,000	14,000	3,000	10,000	600	NA	NA	NA
	29-Aug-92	250	680	240	810	<2.5	NA	NA	NA

Notes:

All concentrations in micrograms per liter (parts per billion)

MTBE = Methyl tertiary butyl ether

EDB = Ethylene dibromide

EDC = Ethylene dichloride

W-10 and W-16 sample containers were labeled incorrectly, therefore results reported for August 8 and 9, 2006 have been switched.

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
INORGANIC COMPOUNDS AND GEOCHEMICAL INDICATORS
LOVINGTON 66 LOVINGTON, NEW MEXICO

Well Number	Date Sampled	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	pH	SpC (uS/cm)	Temp	DO (mg/L)	ORP (mV)
V-1	13-Feb-08	NAPL Present							
	7-Nov-07	NAPL Present							
	8-Aug-06	NAPL Present							
W-1	13-Feb-08	NAPL Present							
	7-Nov-07	NAPL Present							
	8-Aug-06	NAPL Present							
W-2	13-Feb-08	NAPL Present							
	7-Nov-07	NAPL Present							
	8-Aug-06	NAPL Present							
W-3	13-Feb-08	NAPL Present							
	7-Nov-07	NAPL Present							
	8-Aug-06	NAPL Present							
W-5	13-Feb-08	NA	NA	NA	6.74	2,237	18.8	0.78	NA
	7-Nov-07	NA	NA	NA	NA	2,454	19.7	0.15	NA
	9-Aug-06	NA	NA	NA	6.34	2,110	21.8	0.47	-88
W-7	7-Nov-07	NA	NA	NA	NA	1,200	19.7	5.30	NA
	8-Aug-06	NA	NA	NA	6.78	1,475	19.3	2.43	226
W-8	13-Feb-08	NA	NA	NA	6.15	1,109	20.6	0.65	NA
	7-Nov-07	NA	NA	NA	NA	1,235	19.7	1.26	NA
	9-Aug-06	NA	NA	NA	6.63	1,260	22.9	0.60	-311
	6-Aug-05	NA	NA	NA	6.78	1,090	20.23	3.13	234

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
INORGANIC COMPOUNDS AND GEOCHEMICAL INDICATORS
LOVINGTON 66 LOVINGTON, NEW MEXICO

Well Number	Date Sampled	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	pH	SpC (uS/cm)	Temp	DO (mg/L)	ORP (mV)
W-9	13-Feb-08	NA	NA	NA	6.73	1,076	20.1	0.68	NA
	7-Nov-07	NA	NA	NA	NA	1,183	19.5	1.12	NA
	9-Aug-06	NA	NA	NA	6.42	1,230	22.5	0.44	-218
	6-Aug-05	NA	NA	NA	6.77	1,050	20.20	3.29	211
W-10	7-Nov-07	Well Not Sampled Due to Location							
	9-Aug-06	NA	NA	NA	6.50	2,400	22.1	0.00	-175
	6-Aug-05	NA	NA	NA	6.87	1,610	20.76	3.74	201
W-11	13-Feb-08	NA	NA	NA	6.79	1,432	21.1	0.64	NA
	7-Nov-07	NA	NA	NA	NA	1,592	21	0.28	NA
	9-Aug-06	NA	NA	NA	6.38	1,760	22.2	0.17	-97
W-12	7-Nov-07	NA	NA	NA	NA	NA	NA	NA	NA
	8-Aug-06	NA	NA	NA	7.20	880	21.8	2.22	168
W-13	7-Nov-07	NA	NA	NA	NA	NA	NA	NA	NA
	8-Aug-06	NA	NA	NA	5.37	1,111	15.9	1.85	219
W-14	13-Feb-08	NA	NA	NA	6.72	1,537	20.6	0.54	NA
	7-Nov-07	NA	NA	NA	NA	NA	NA	NA	NA
	9-Aug-06	NA	NA	NA	6.59	1,850	23.4	0.00	-290
W-15	7-Nov-07	NA	NA	NA	NA	NA	NA	NA	NA
	8-Aug-06	NA	NA	NA	6.41	1,240	18.5	3.96	267

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
INORGANIC COMPOUNDS AND GEOCHEMICAL INDICATORS
LOVINGTON 66 LOVINGTON, NEW MEXICO

Well Number	Date Sampled	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	pH	SpC (uS/cm)	Temp	DO (mg/L)	ORP (mV)
W-16	13-Feb-08	NA	NA	NA	6.67	1,879	20.3	0.27	NA
	7-Nov-07	NA	NA	NA	NA	2,072	20.7	0.11	NA
	8-Aug-06	NA	NA	NA	6.33	2,080	22.4	1.20	-113
W-18	7-Nov-07	NA	NA	NA	NA	NA	NA	NA	NA
	8-Aug-06	NA	NA	NA	6.24	1,090	21.1	1.20	186
W-19	13-Feb-08	NA	NA	NA	6.84	901	19.3	7.05	NA
	7-Nov-07	NA	NA	NA	NA	1,214	19.5	NA	NA
W-20	12-Feb-08	NA	NA	NA	7.13	816	16.6	7.13	NA
	7-Nov-07	NA	NA	NA	NA	1,185	19.5	NA	NA
W-21	13-Feb-08	NA	NA	NA	6.68	1,285	17.9	6.34	NA
	7-Nov-07	NA	NA	NA	NA	2,544	20.2	NA	NA

Notes:

DO = Dissolved oxygen

mg/L = Milligrams per liter

mV = Millivolts

NA = Not analyzed

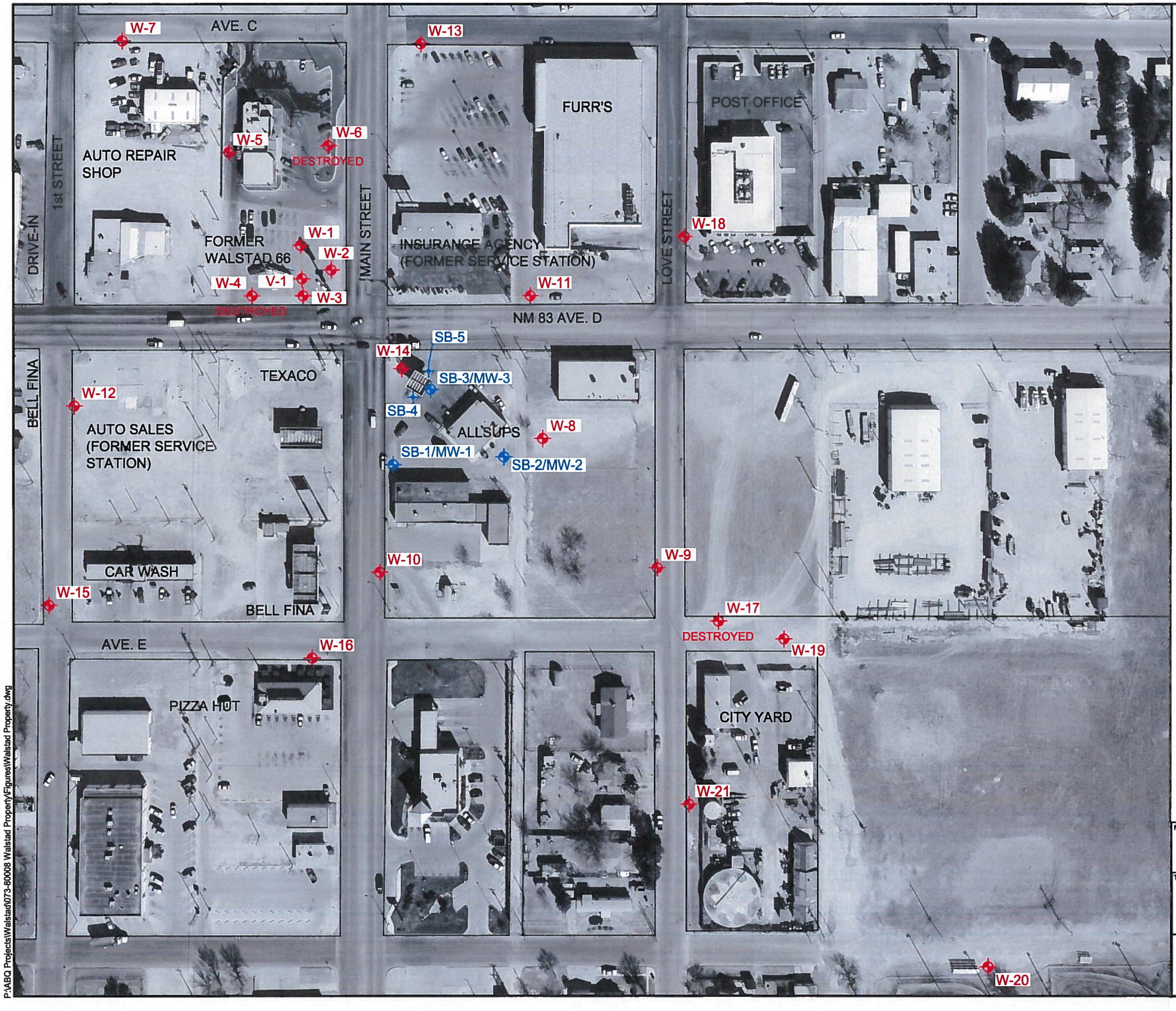
ORP = Oxidation-reduction potential in milli volts (mV)

SpC = Specific conductance measured in micro siemens per centimeter (uS/cm)

Temp = Temperature in degrees Celsius

uS/cm = Microsiemens per centimeter

FIGURES



P:\ABQ Projects\Walstad\073-80008 Walstad Property\Figures\Walstad Property.dwg

LEGEND:

W-1	WALSTAD MONITORING WELL
SB-1/MW-1	ALLSUPS SOIL BORING/ MONITORING WELL
SB-1	ALLSUPS SOIL BORING

60 0 60 120
B SIZE: 1" = 120' FEET

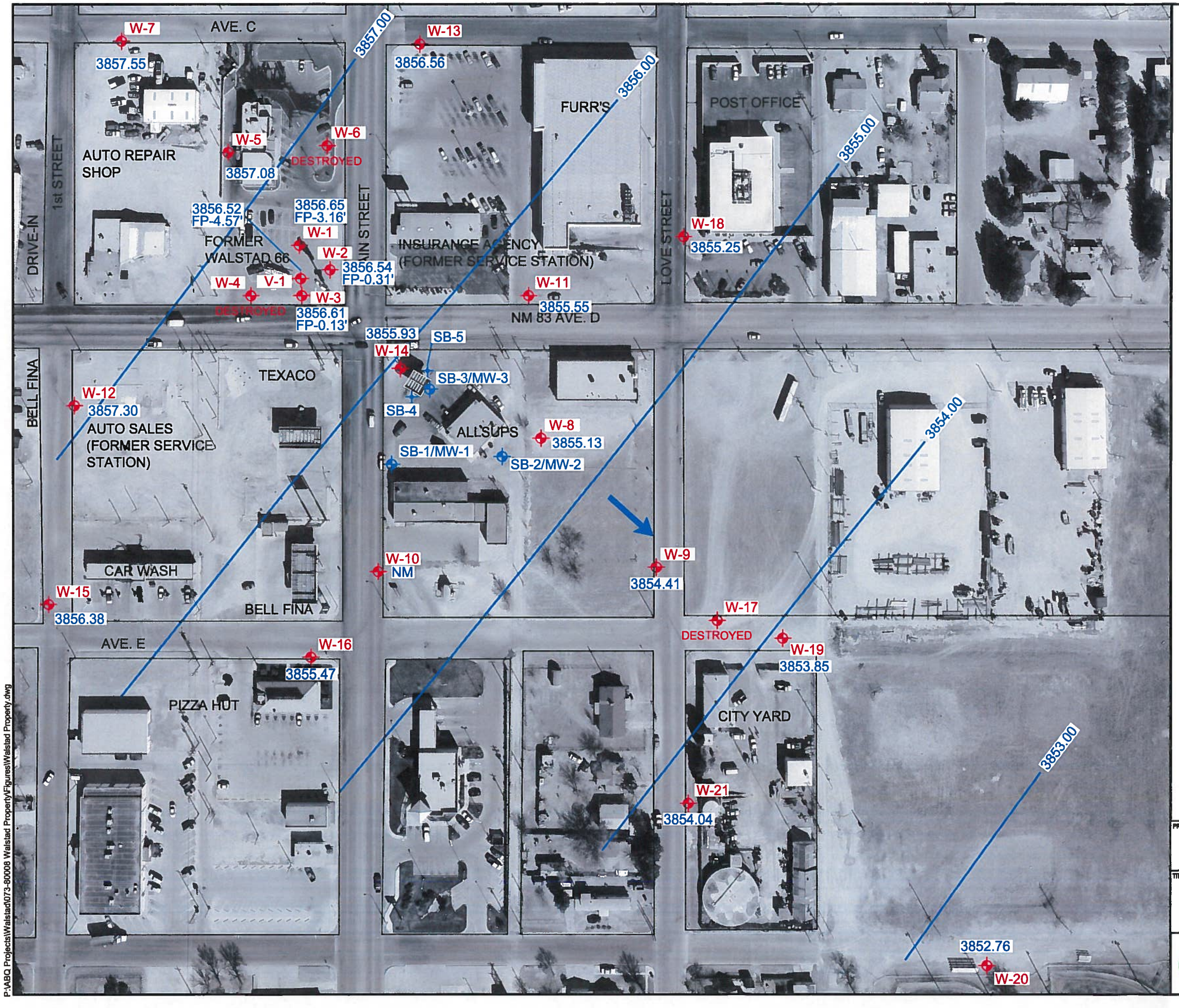
PROJECT
LOVINGTON 66
424 SOUTH MAIN
LOVINGTON, NEW MEXICO

TITLE
SITE MAP

Golder Associates
Albuquerque, New Mexico

PROJECT No.		073-80008	FILE No. Walstad Property.dwg		
DESIGN	TM	08/31/06	SCALE AS SHOWN	REV.	A
CADD	RLO	03/20/08			
CHECK	TM	03/20/08			
REVIEW	JS	03/20/08			

FIGURE 1



P:\ABQ Projects\Walstad\073-80008 Walstad Property\Figures\Walstad Property.dwg

LEGEND:

W-1 3856.65	WALSTAD MONITORING WELL WITH GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
SB-1/MW-1	ALLSUPS SOIL BORING/ MONITORING WELL LOCATION
SB-1	ALLSUPS SOIL BORING
3855.00	POTENTIOMETRIC GROUNDWATER SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
	GROUNDWATER FLOW DIRECTION

* DATA NOT USED FOR CONTOURING

60 0 60 120
B SIZE: 1" = 120' FEET

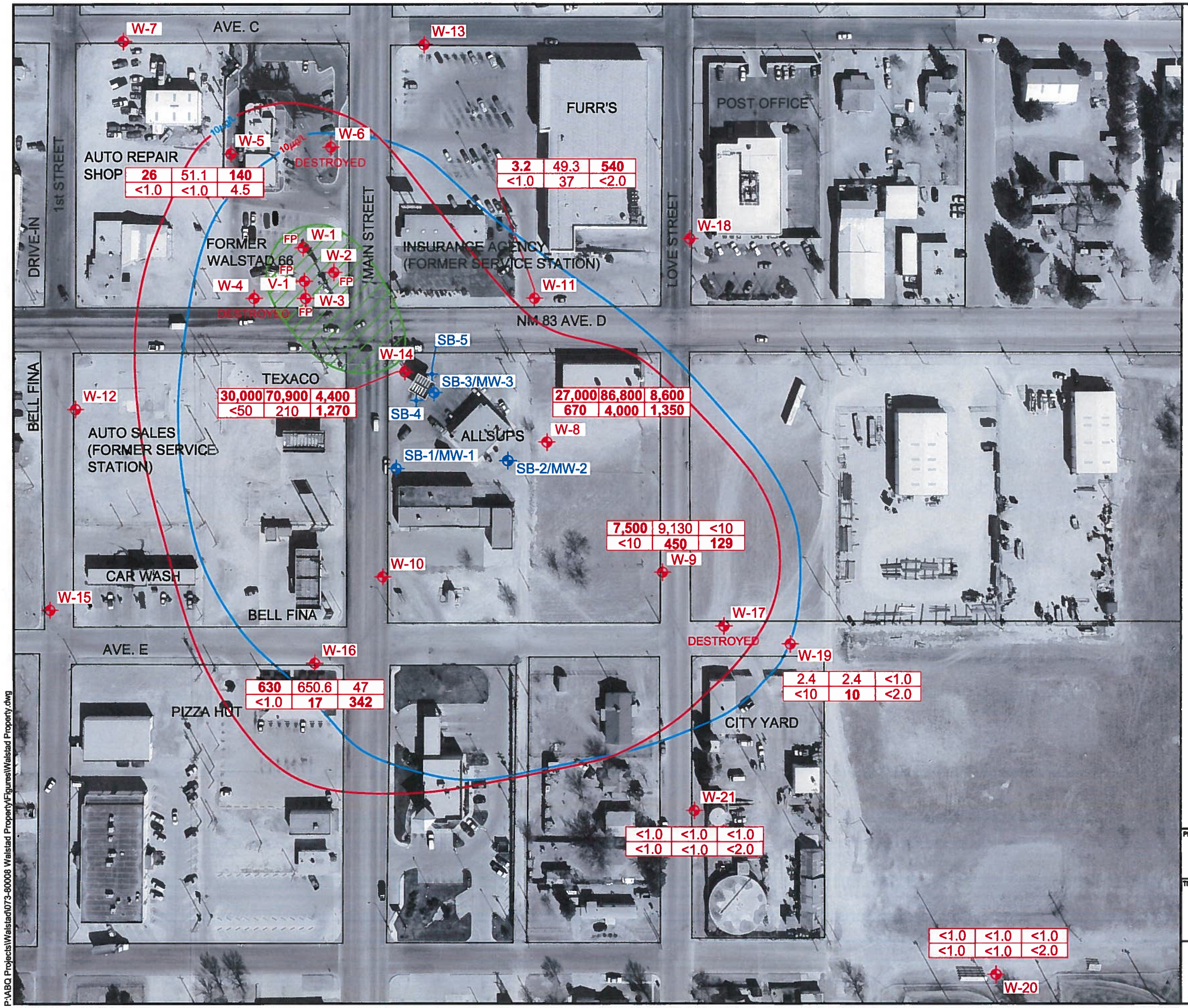
PROJECT
LOVINGTON 66
424 SOUTH MAIN
LOVINGTON, NEW MEXICO

TITLE
POTENTIOMETRIC SURFACE MAP FEBRUARY 2008

Golder Associates
Albuquerque, New Mexico

PROJECT No.		073-80008	FILE No.	Walstad Property.dwg	
DESIGN	TM	08/31/08	SCALE	AS SHOWN	REV. A
CADD	RLO	03/20/08			
CHECK	TM	03/20/08			
REVIEW	JS	03/20/08			

FIGURE 2



LEGEND:

- W-1 — WALSTAD MONITORING WELL
- SB-1/MW-1 — ALLSUPS SOIL BORING/ MONITORING WELL
- SB-1 — ALLSUPS SOIL BORING
- 10 µg/L — ESTIMATED EXTENT OF BENZENE ABOVE STANDARD
- 10 µg/L — ESTIMATED EXTENT OF EDC ABOVE STANDARD
- ESTIMATED EXTENT OF NAPL

BENZENE	BTEX	MTBE
EDB	EDC	TOTAL NAPHTHALENE

ALL CONCENTRATIONS ARE µg/L (ppb)

BOLD INDICATES THAT CONCENTRATION EXCEEDS NMWQCC GROUNDWATER STANDARD OR EIB STANDARD

60 0 60 120
B SIZE: 1" = 120' FEET

PROJECT
LOVINGTON 66
424 SOUTH MAIN
LOVINGTON, NEW MEXICO

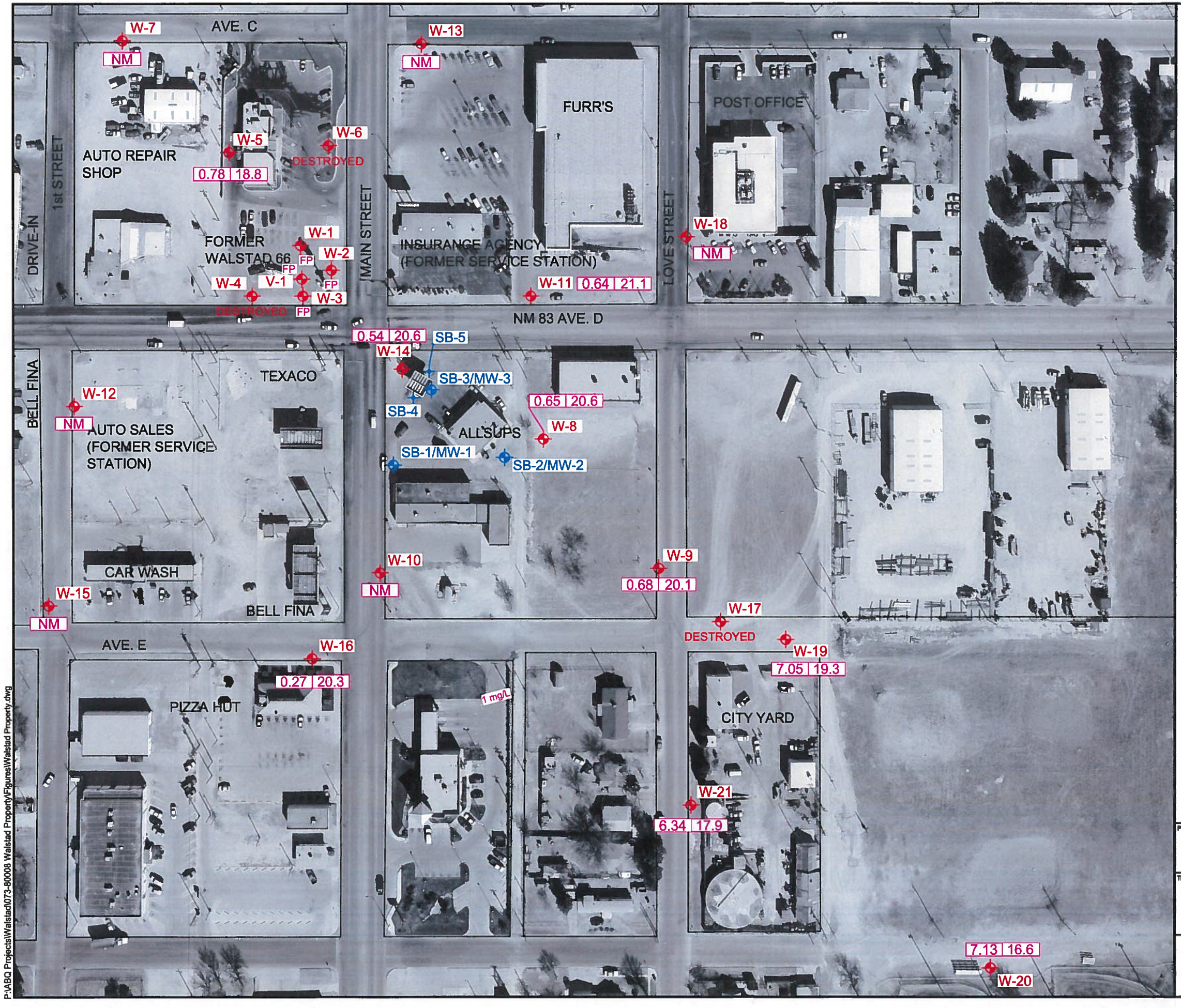
TITLE
DISTRIBUTION OF ORGANIC CONTAMINANTS IN GROUNDWATER FEBRUARY 2008

Golder Associates
Albuquerque, New Mexico

PROJECT No.		073-80008	FILE No.	Walstad Property.dwg
DESIGN	TM	08/31/06	SCALE	AS SHOWN
CADD	RLO	03/20/08	REV.	A
CHECK	TM	03/20/08		
REVIEW	JS	03/20/08		

FIGURE 3

P:\ABQ Projects\Walstad\073-80008 Walstad Property\Figures\Walstad Property.dwg



P:\ABQ Projects\Walstad\073-80008 Walstad Property\Figures\Walstad Property.dwg

LEGEND:

W-1	WALSTAD MONITORING WELL
SB-1/MW-1	ALLSUPS SOIL BORING/ MONITORING WELL
SB-1	ALLSUPS SOIL BORING

DO	TEMP

DISSOLVED OXYGEN (DO) CONCENTRATIONS ARE IN MILLIGRAMS PER LITER

TEMPERATURE (TEMP) VALUES ARE IN DEGREES CELSIUS

80 0 80 120
B SIZE: 1" = 120' FEET

PROJECT

WALSTAD 66
424 SOUTH MAIN
LOVINGTON, NEW MEXICO

TITLE

DISTRIBUTION OF MNA PARAMETERS IN GROUNDWATER FEBRUARY 2008

Golder Associates
Albuquerque, New Mexico

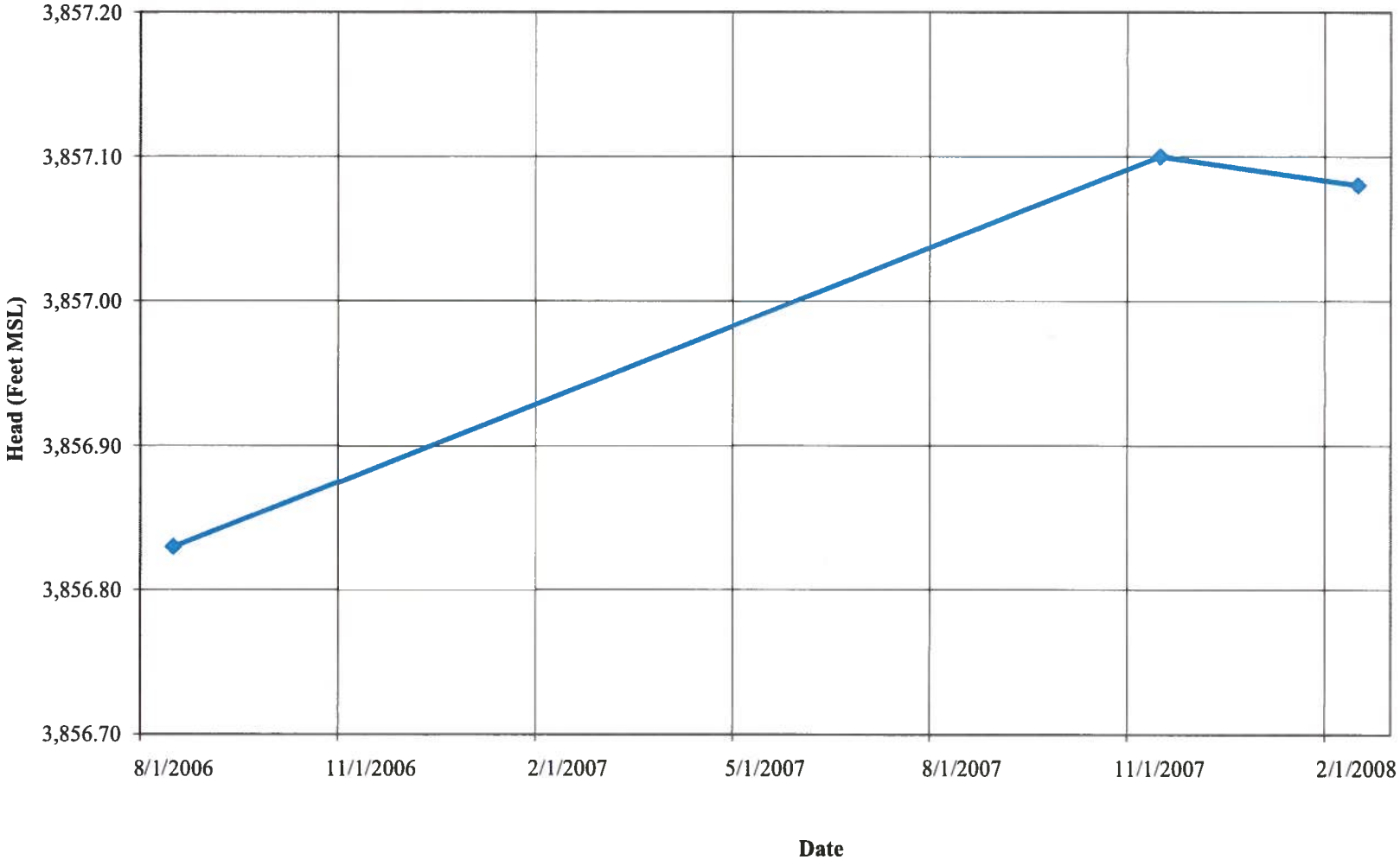
PROJECT No.		073-80008	FILE No. Walstad Property.dwg	
DESIGN	TM	08/31/08	SCALE AS SHOWN	REV. A
CADD	RLO	03/20/08		
CHECK	TM	03/20/08		
REVIEW	JS	03/20/08		

FIGURE 4

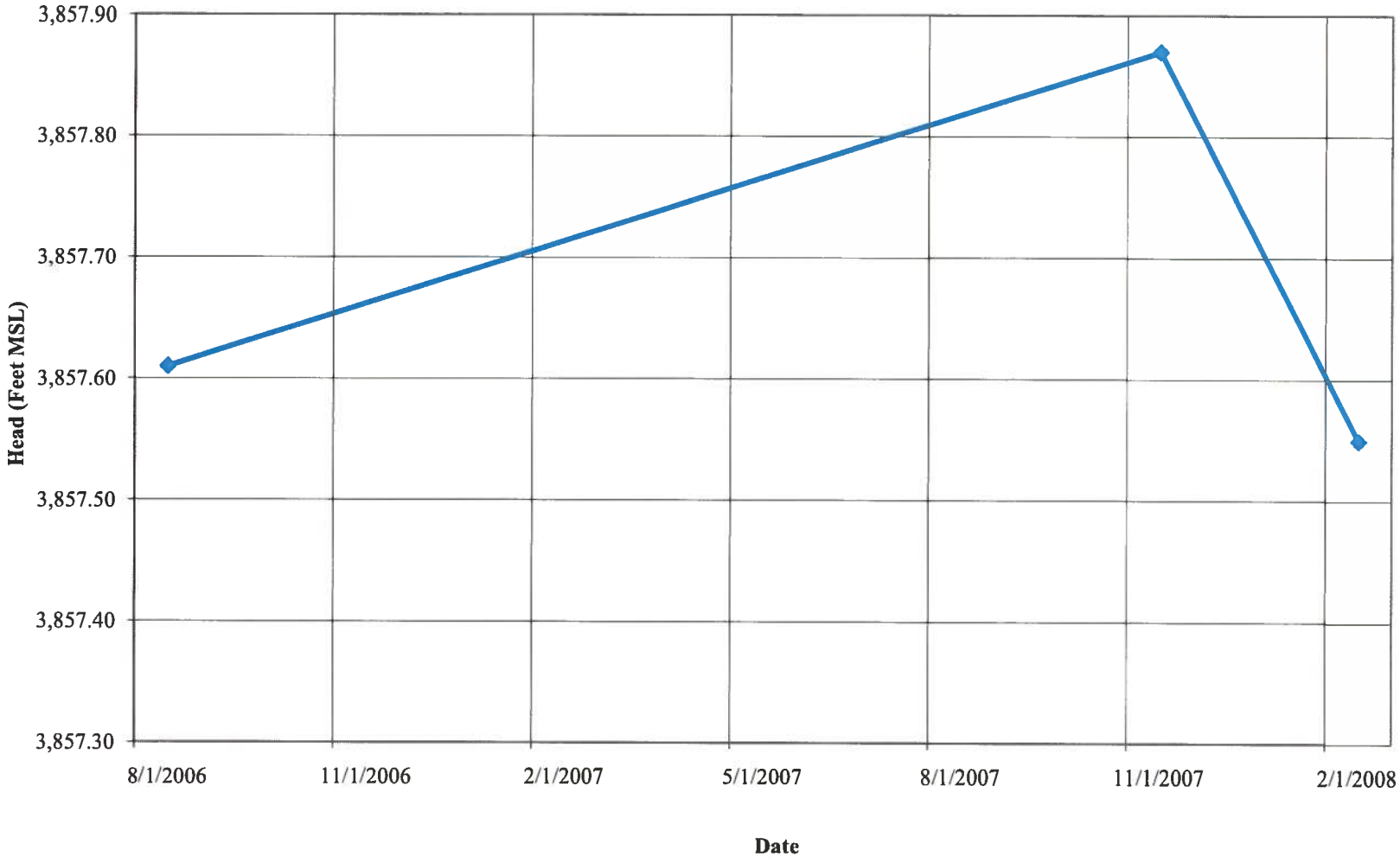
APPENDIX A

HYDROGRAPHS

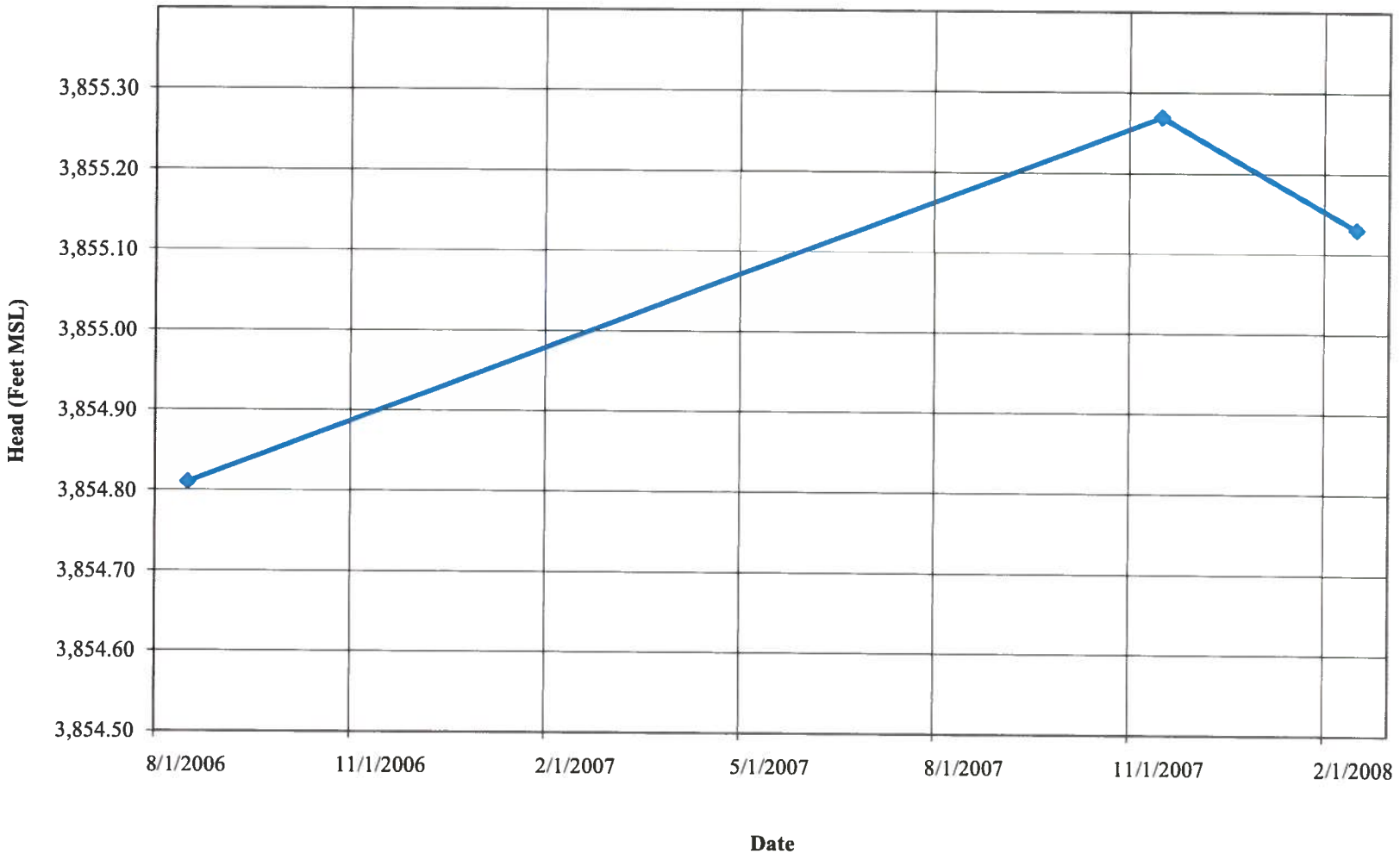
HYDROGRAPH FOR WELL MW-5



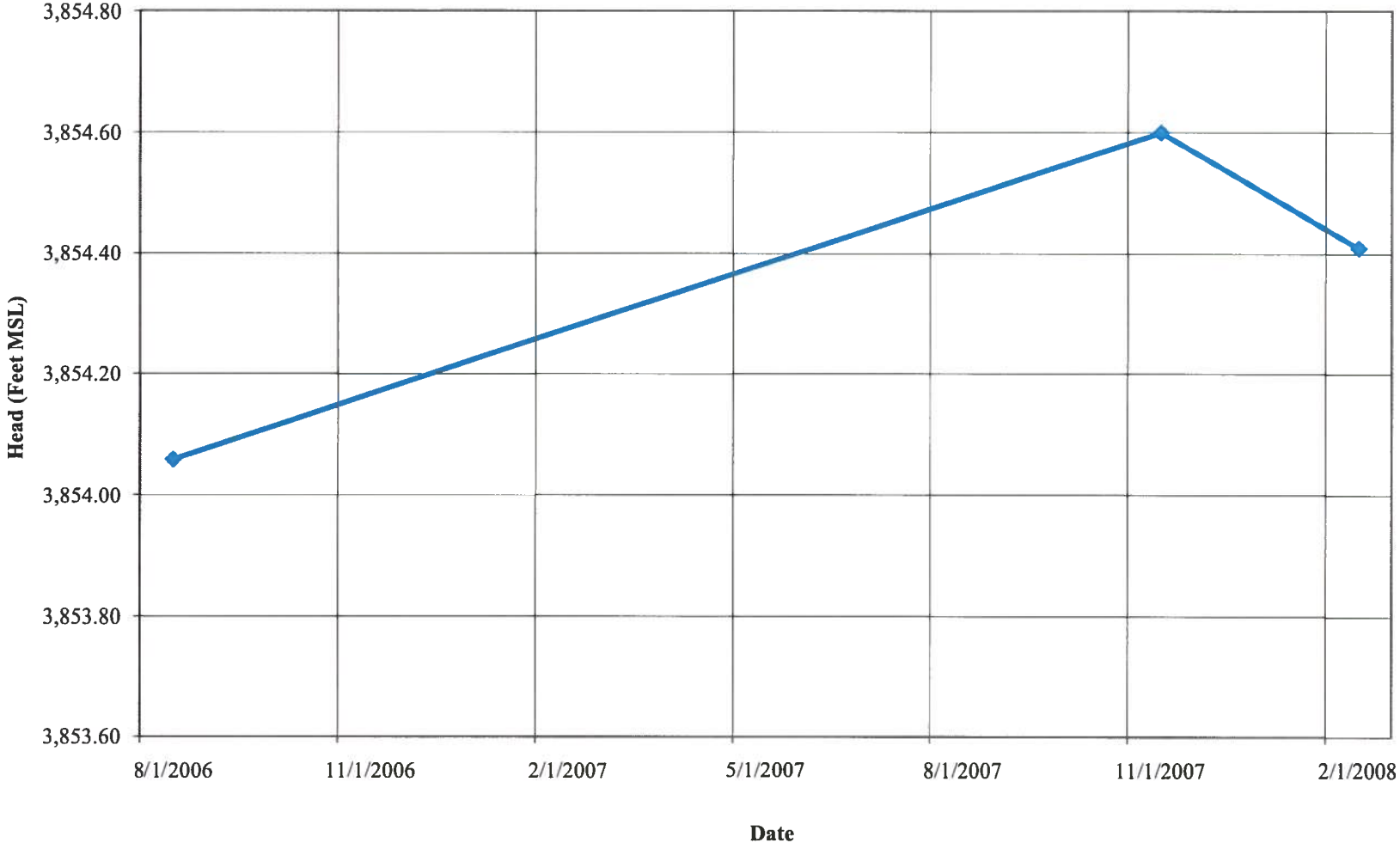
HYDROGRAPH FOR WELL MW-7



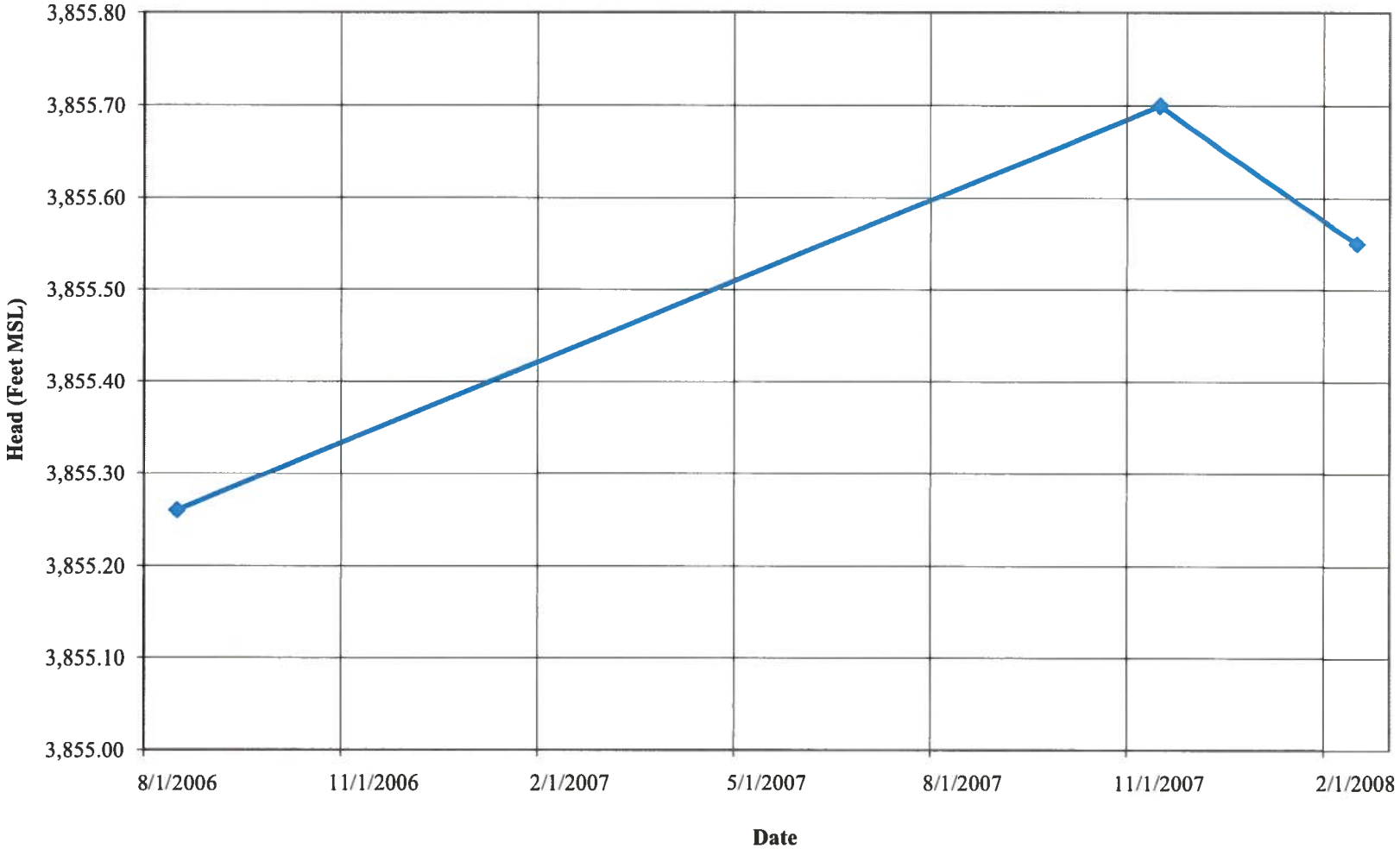
HYDROGRAPH FOR WELL MW-8



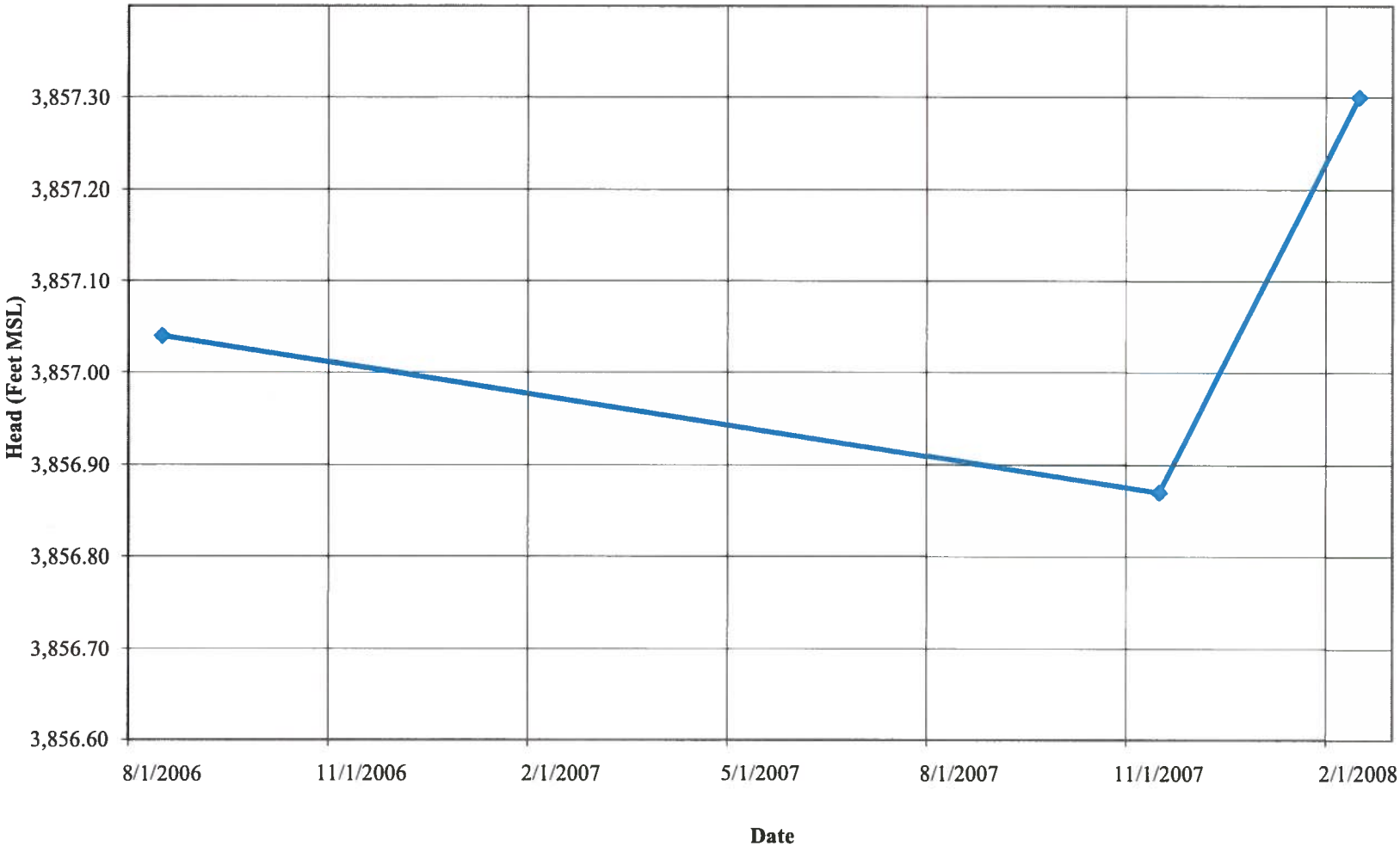
HYDROGRAPH FOR WELL MW-9



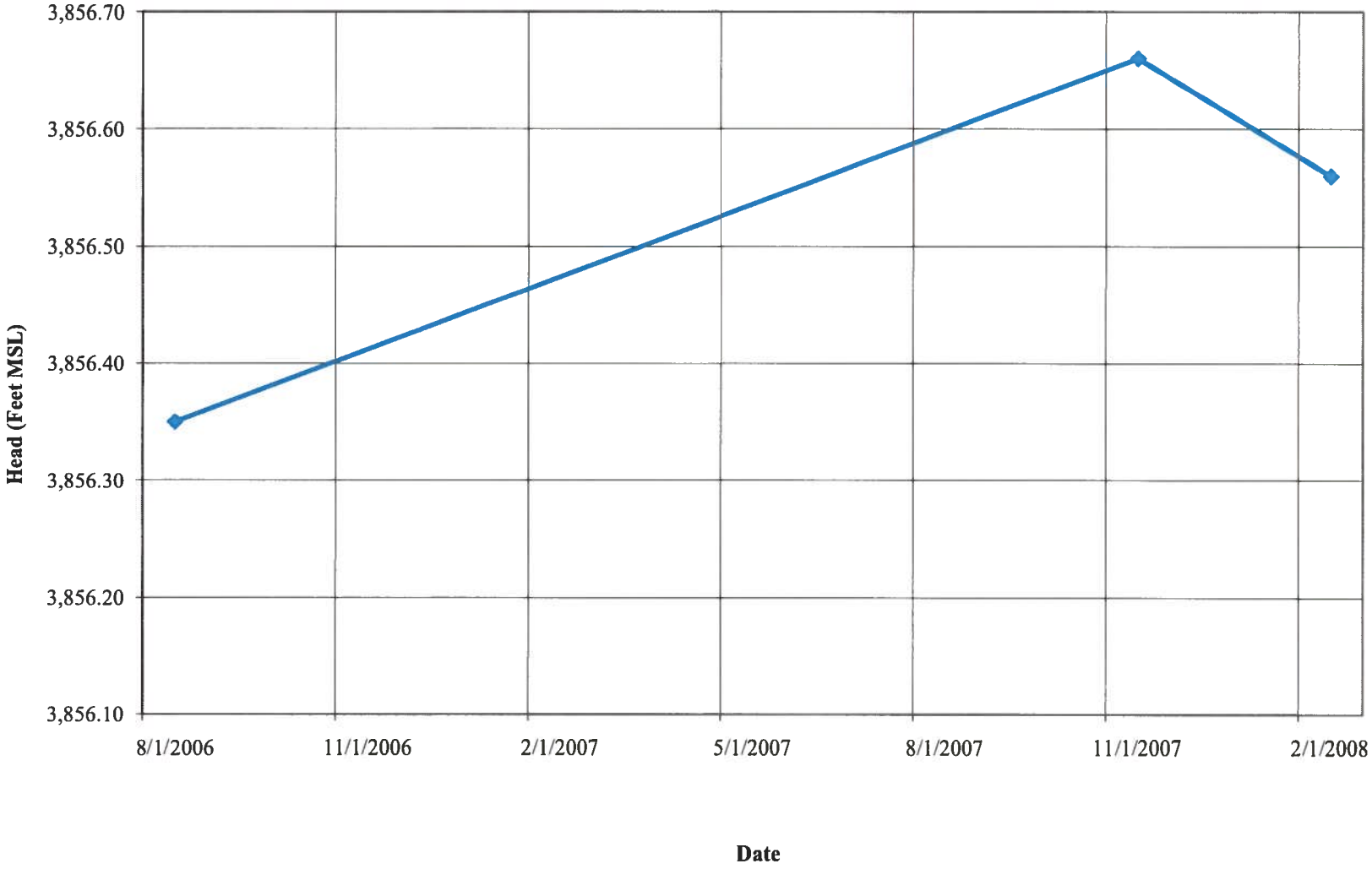
HYDROGRAPH FOR WELL MW-11



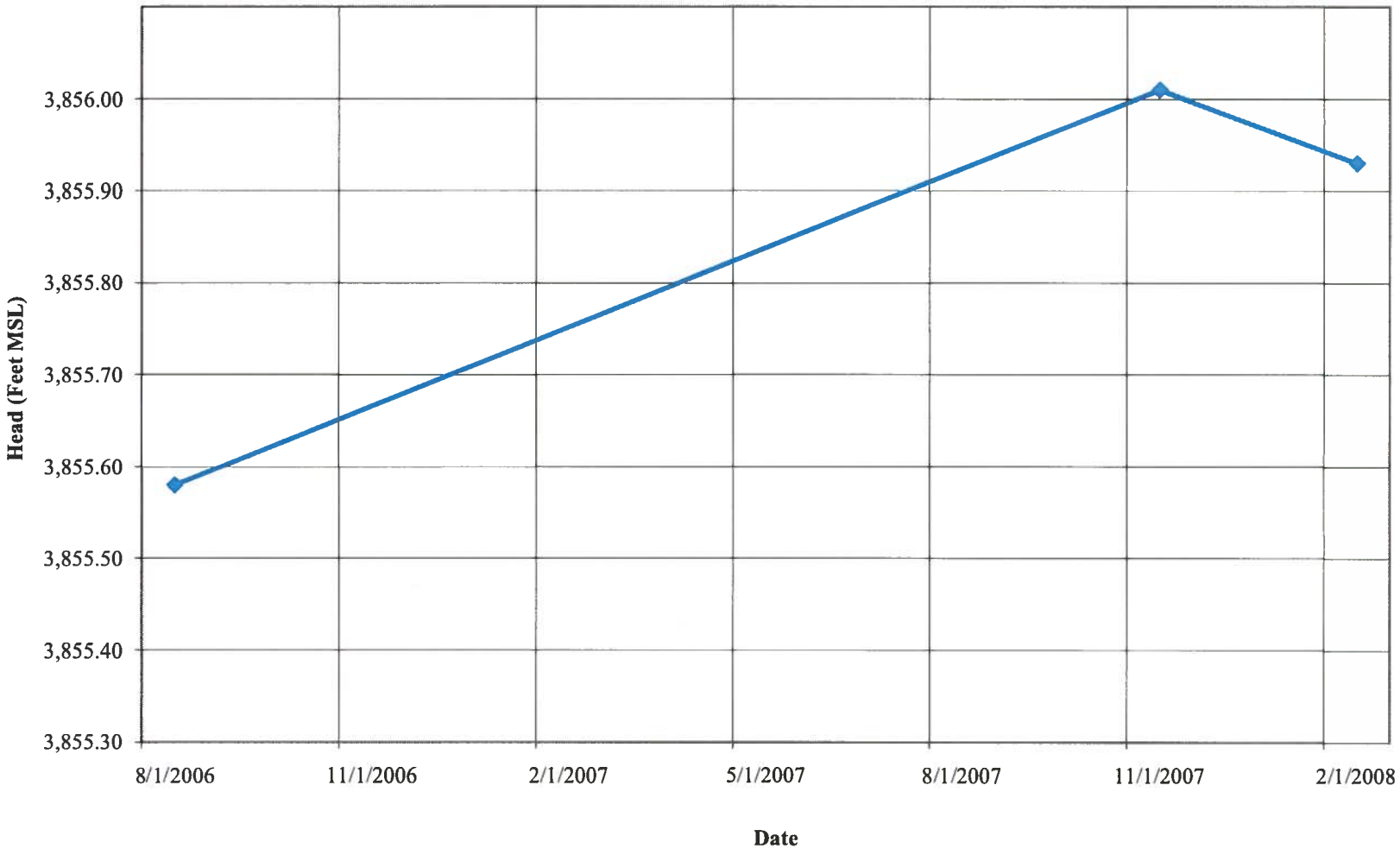
HYDROGRAPH FOR WELL MW-12



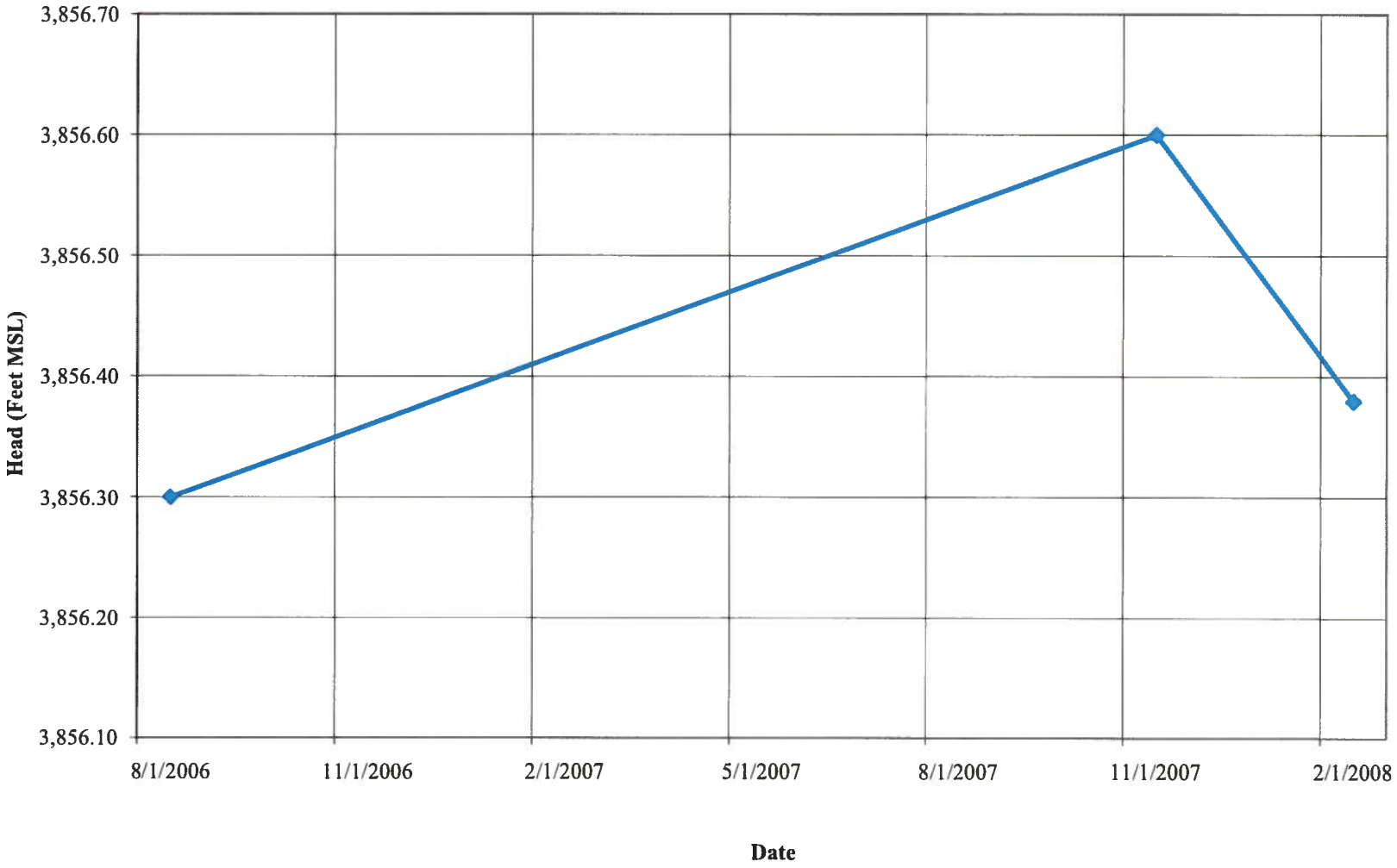
HYDROGRAPH FOR WELL MW-13



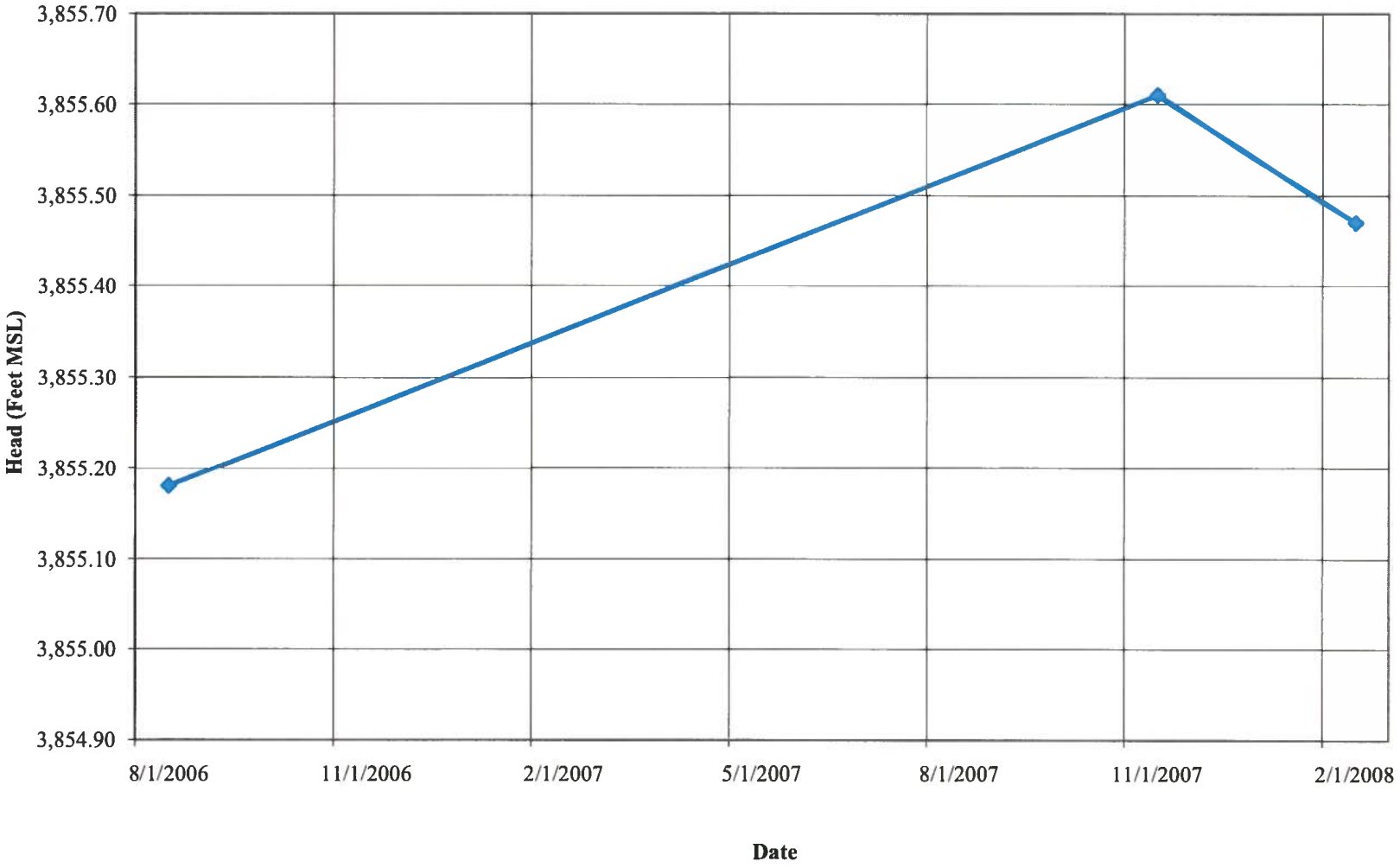
HYDROGRAPH FOR WELL MW-14



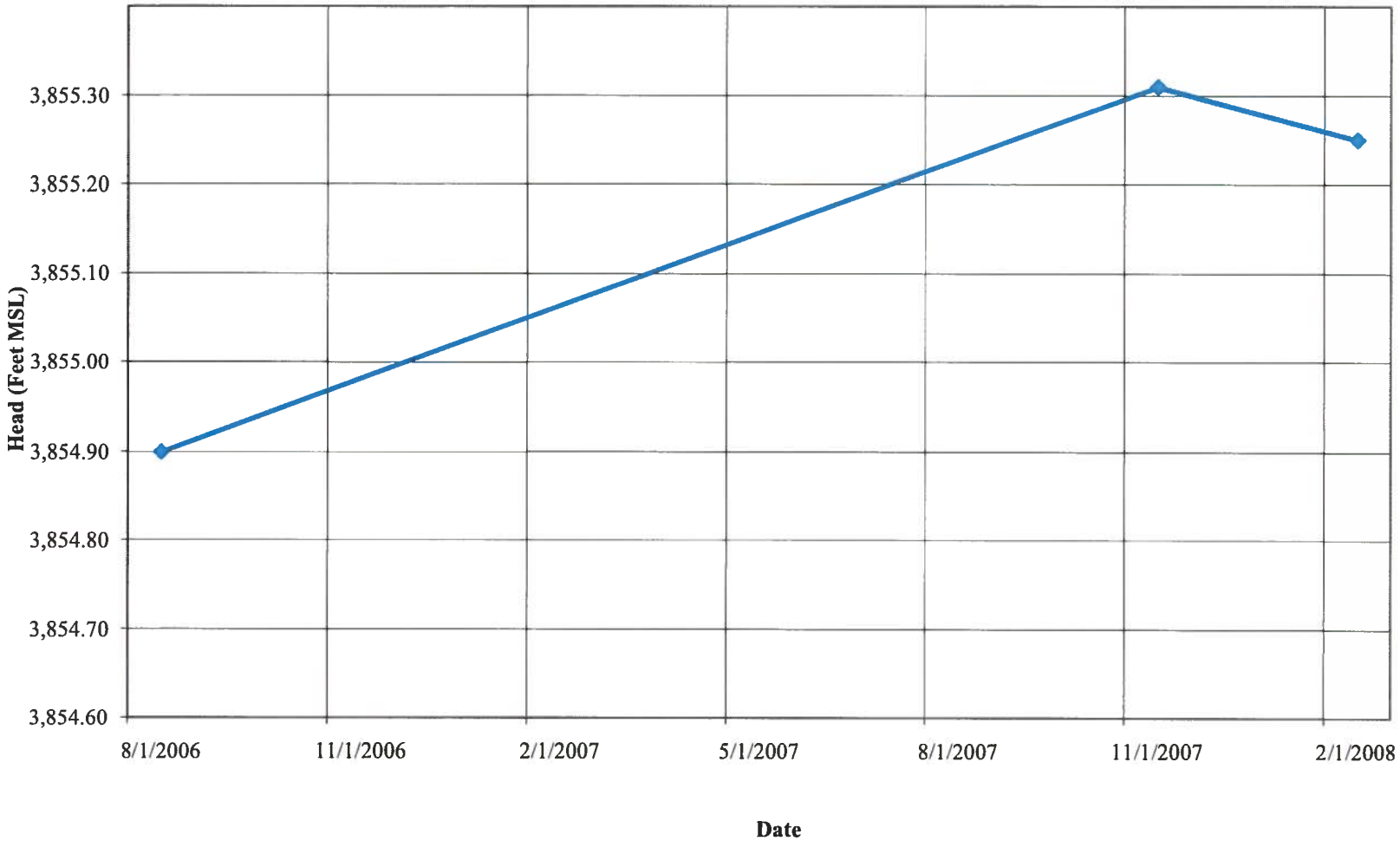
HYDROGRAPH FOR WELL MW-15



HYDROGRAPH FOR WELL MW-16



HYDROGRAPH FOR WELL MW-18



APPENDIX B

FIELD FORMS

V-1
16

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043; Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	V-1		Date gauged	2/13/09	
Site	NAESTADGG		Time gauged	1400	
Depth to PSH	53.01	Feet	Well diameter	2"	Inches
Depth to water	57.58	Feet	Height of fluid column		Feet
Total depth		Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by _____

Sample method _____

Requested analyses _____

Comments/observations _____

_____

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043, Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	W-1	Date gauged	2/13/08	
Site	WALSTEDGC	Time gauged	1350	
Depth to PSH	53.89 Feet	Well diameter	4"	Inches
Depth to water	57.05 Feet	Height of fluid column		Feet
Total depth	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by _____

Sample method _____

Requested analyses _____

Comments/observations _____

_____

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043, Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	W-2	Date gauged	2/13/08	
Site	WASTEDGG	Time gauged	1325	
Depth to PSH	53.57	Feet	Well diameter	4" Inches
0.31				
Depth to water	53.88	Feet	Height of fluid column	Feet
Total depth		Feet	Volume in well	Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

NAPL

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by _____

Sample method _____

Requested analyses _____

Comments/observations _____

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043; Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	~~MW-4~~ MW-3 123	Date gauged			
Site		Time gauged			
Depth to PSH	53.65 Feet	Well diameter	4"	Inches	
Depth to water	53.76 Feet	Height of fluid column		Feet	
Total depth	Feet	Volume in well		Gallons	

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by _____

Sample method _____

Requested analyses _____

Comments/observations _____

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043; Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	W-5	Date gauged	2/13/08	
Site	WASTEPDGG	Time gauged	9:14	
Depth to PSH	____ Feet	Well diameter	2"	Inches
Depth to water	54.63 Feet	Height of fluid column	10.16	Feet
Total depth	64.79 Feet	Volume in well	1.72	Gallons

(3 well volumes = 5.1 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 2/13/08 Purge Method HAND BAILED

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
923	.25	18.4	1490	6.62	—	.78
930	3	18.8	1898	6.74	-	-
940	5.1	18.8	2237	6.74	-	-

Actual purge volume 5.1 gal. Field measurements stabilized within ± 10%? N

Time/date sampled 940 2/13/08 Purged/sampled by [signature]

Sample method DISP SAMPLE BAILER

Requested analyses 8260

Comments/observations HC smell

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043, Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	W-7		Date gauged	2/12/06	
Site	WHISTLER		Time gauged	16:42	
Depth to PSH		Feet	Well diameter	2"	Inches
Depth to water	53.33	Feet	Height of fluid column		Feet
Total depth	65.94	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by _____

Sample method _____

Requested analyses _____

Comments/observations _____

_____

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

(13)

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043, Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-8		Date gauged	2/13/08	
Site	WASTE PIT		Time gauged	1205	
Depth to PSH		Feet	Well diameter	2"	Inches
Depth to water	54.79	Feet	Height of fluid column	10.32	Feet
Total depth	65.11	Feet	Volume in well	1.7546	Gallons

(3 well volumes = 5.26 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1210 2/13/08 Purge Method HAND BAILED

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1215	1.25	21.2	1055	6.78	—	.65
1227	3	20.3	1052	6.78	—	—
1233	5.20	20.6	1109	6.15	—	—

Actual purge volume 5.20 gal. Field measurements stabilized within ± 10%? Y

Time/date sampled 1233 2/13/08 Purged/sampled by [signature]

Sample method DISPOSABLE BAILER

Requested analyses 8260

Comments/observations HC ODOR H2O PARIS most of THE TIME WELL WAS BAILED NO SHEEN

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

(12)

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone (505) 821-3043; Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-9	Date gauged	2/3/08	
Site	LANDFARM 5	Time gauged	1120	
Depth to PSH	____ Feet	Well diameter	2"	Inches
Depth to water	54.31 Feet	Height of fluid column	10.33	Feet
Total depth	64.64 Feet	Volume in well	1.756	Gallons

(3 well volumes = 5.2 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1131 Purge Method HAND BAILER

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1131	.25	21.5	1030	4.73	✓	.68
1138	2	19.6	1027	6.76	—	—
1142	4	19.4	1065	6.74	—	—
1148	5.5	20.1	1076	6.73	—	—

Actual purge volume 5.5 gal. Field measurements stabilized within ± 10%? Y

Time/date sampled 1150 2/13/08 Purged/sampled by [signature]

Sample method DISPOSABLE BAILER

Requested analyses 8260

Comments/observations ____

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

(10)

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043, Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	W-11		Date gauged	2/13/08	
Site	WASTEDGG		Time gauged	959	
Depth to PSH		Feet	Well diameter	2"	Inches
Depth to water	54.41	Feet	Height of fluid column	10.44	Feet
Total depth	64.90	Feet	Volume in well	1.78	Gallons

(3 well volumes = 5.35 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1005 2/13/08 Purge Method PUMP BAILED

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1007	.25	19.4	1488	6.83	—	.64
1016	3	20.3	1485	6.76	—	—
1020	5.1	21.1	1432	6.79	—	—

Actual purge volume 5.1 gal. Field measurements stabilized within ± 10%? Y

Time/date sampled 1020 2/13/08 Purged/sampled by [signature]

Sample method DISPOSABLE BAILER

Requested analyses 8260

Comments/observations HC Smell

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043 Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	W-12		Date gauged	2/12/08	
Site	WASTE DOG		Time gauged	16:42	16:54
Depth to PSH		Feet	Well diameter	2'	Inches
Depth to water	53.29	Feet	Height of fluid column		Feet
Total depth	60.21	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by _____

Sample method _____

Requested analyses _____

Comments/observations _____

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043; Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-13		Date gauged	2/12/08	
Site	WIST EP GG		Time gauged	16:33	
Depth to PSH		Feet	Well diameter	2"	Inches
Depth to water	53.80	Feet	Height of fluid column		Feet
Total depth	65.00	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by _____

Sample method _____

Requested analyses _____

Comments/observations _____

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

(14)

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043, Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	VV-14		Date gauged	2/13/08	
Site	NAGEEZI GC		Time gauged	12 48	
Depth to PSH		Feet	Well diameter	2"	Inches
Depth to water	53.80	Feet	Height of fluid column	10.59	Feet
Total depth	64.39	Feet	Volume in well	1.8003	Gallons

(3 well volumes = 5.4009 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1255 2/13/08 Purge Method HAND BAILED

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1255	.25	22.6	1679	6.74	—	.54
1303	3	20.7	1675	6.76	—	—
1312	5.4	20.6	1537	6.72	—	—

Actual purge volume 5.4 gal. Field measurements stabilized within ± 10%? Y

Time/date sampled 1313 Purged/sampled by [signature]

Sample method DISPOSABLE BAILER

Requested analyses 8260

Comments/observations

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043, Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-15	Date gauged	2/12/09	
Site	WAISTRIDGE	Time gauged	17:05	
Depth to PSH	_____ Feet	Well diameter	2"	Inches
Depth to water	53.02 Feet	Height of fluid column	_____	Feet
Total depth	65.93 Feet	Volume in well	_____	Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume _____ gal. Field measurements stabilized within ±10%? _____

Time/date sampled _____ Purged/sampled by _____

Sample method _____

Requested analyses _____

Comments/observations _____

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

(11)

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043, Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-16		Date gauged	2/13/08	
Site	WASTE DGG		Time gauged	1040	
Depth to PSH		Feet	Well diameter	2"	Inches
Depth to water	53.20	Feet	Height of fluid column	11.72	Feet
Total depth	64.92	Feet	Volume in well	1.9924	Gallons

(3 well volumes = 5.97 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1040 & 2/13/08 Purge Method HAND BAILED

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1047	.25	21.3	1790	6.64	—	.27
1057	3	20.3	1840	6.67	—	—
1101	4.5	20.0	1876	6.69	—	—
1109	6	20.3	1879	6.67	—	—

Actual purge volume 6 gal. Field measurements stabilized within ± 10%? N

Time/date sampled 1109 Purged/sampled by

Sample method DEDICATED BAILER

Requested analyses 8260

Comments/observations WATER DARK GREY COLOR FAINT H2S smell / VAULT collects H_2O WATER LIGHTER WHEN SAMPLED

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043; Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-18		Date gauged	2/12/08	
Site	WALSTED GG		Time gauged	16:23	
Depth to PSH		Feet	Well diameter	2"	Inches
Depth to water	54.13	Feet	Height of fluid column		Feet
Total depth	64.31	Feet	Volume in well		Gallons

(3 well volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date purged _____ Purge Method _____

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)

Actual purge volume _____ gal. Field measurements stabilized within ± 10%? _____

Time/date sampled _____ Purged/sampled by _____

Sample method _____

Requested analyses _____

Comments/observations _____

_____

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

(8)

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043; Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-14	Date gauged	2/13/08	
Site	HALSTEAD GC	Time gauged	822	
Depth to PSH	— Feet	Well diameter	2"	Inches
Depth to water	54.51 Feet	Height of fluid column	10.62	Feet
Total depth	65.13 Feet	Volume in well	1.8054	Gallons

(3 well volumes = 5.4162 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 831 2/13/08 Purge Method HAND BAILED

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
831	.25	16.9	723	6.86	—	7.05
842	3	18.4	801	6.65	—	—
847	4.5	18.9	576	6.83	—	—
853	5.4	19.3	601	6.84	—	—

Actual purge volume 5.4 gal. Field measurements stabilized within ± 10%? Y

Time/date sampled 855 2/13/08 Purged/sampled by [signature]

Sample method 8260 DISPOSABLE BAILER

Requested analyses 8260

Comments/observations

Well Casing Volumes

2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

⑥

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043; Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID: W-20
Date gauged: 2/12/08
Site: WRISTEDGG
Time gauged: 17:17

Depth to PSH: ______ Feet
Well diameter: 2" Inches
Depth to water: 54.69 Feet
Height of fluid column: 10.35 Feet
Total depth: 65.04 Feet
Volume in well: 1.7595 Gallons

(3 well volumes = 5.27 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged: 1720 2/12/08
Purge Method: HAND BAILER

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
17:20	.25	15.6	408	7.14	—	—
17:36	2	17.0	388	7.23	—	—
17:50	5.2	16.6	416	7.13	—	—

2D ←7.13

Actual purge volume: 5.2 gal.
Field measurements stabilized within ± 10%? N

Time/date sampled: 1750
Purged/sampled by: [signature]

Sample method: DISPOSABLE BAILER
Requested analyses: 8260
Comments/observations: ______

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

(2)

Golder Associates
4910 Alameda Blvd, NE Suite A
Albuquerque, NM 87113
Phone: (505) 821-3043; Fax: (505) 821-5273

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID	MW-21	Date gauged	211310S		
Site		Time gauged	0726		
Depth to PSH		Feet	Well diameter	2"	Inches
Depth to water	54.45	Feet	Height of fluid column	10.56	Feet
Total depth	64.81	Feet	Volume in well	1.7612	Gallons

(3 well volumes = 5.28 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 1124 211310S Purge Method HAND BAILER

Time	Purge Volume (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
745	.25	15.4	1433	6.5	—	6.34
752	3	17.6	1268	6.86	—	-
805	5.2	17.9	1285	6.68		

Actual purge volume 5.2 gal. Field measurements stabilized within ± 10%? NI

Time/date sampled 805 211310S Purged/sampled by [signature]

Sample method DISPOSABLE BAILER

Requested analyses 8260

Comments/observations DROPPED BAILER DOWN well 1st pull
~~30~~ Recovered

Well Casing Volumes
2" diameter = 0.17 gal/ft 4" diameter = 0.66 gal/ft 6" diameter = 1.50 gal/ft

APPENDIX C

ANALYTICAL LABORATORY REPORTS

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, February 21, 2008

Teri McMillan
Golder Associates
5200 Pasadena, NE Suite C
Albuquerque, NM 87113

TEL: (505) 821-3043
FAX (505) 821-5273

RE: Walstad 66

Order No.: 0802178

Dear Teri McMillan:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 2/14/2008 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-20
Lab Order:	0802178	**Collection Date:**	2/12/2008 12:50:00 PM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Benzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Toluene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Ethylbenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Naphthalene	ND	2.0		µg/L	1	2/14/2008 3:13:43 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	2/14/2008 3:13:43 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	2/14/2008 3:13:43 PM
Acetone	ND	10		µg/L	1	2/14/2008 3:13:43 PM
Bromobenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Bromodichloromethane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Bromoform	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Bromomethane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
2-Butanone	ND	10		µg/L	1	2/14/2008 3:13:43 PM
Carbon disulfide	ND	10		µg/L	1	2/14/2008 3:13:43 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Chlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Chloroethane	ND	2.0		µg/L	1	2/14/2008 3:13:43 PM
Chloroform	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Chloromethane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
2-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
4-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
cis-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/14/2008 3:13:43 PM
Dibromochloromethane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Dibromomethane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	2/14/2008 3:13:43 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
2-Hexanone	ND	10		µg/L	1	2/14/2008 3:13:43 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-20
Lab Order:	0802178	**Collection Date:**	2/12/2008 12:50:00 PM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Isopropylbenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	2/14/2008 3:13:43 PM
Methylene Chloride	ND	3.0		µg/L	1	2/14/2008 3:13:43 PM
n-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
n-Propylbenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
sec-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Styrene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
tert-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/14/2008 3:13:43 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
trans-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/14/2008 3:13:43 PM
Vinyl chloride	ND	1.0		µg/L	1	2/14/2008 3:13:43 PM
Xylenes, Total	ND	1.5		µg/L	1	2/14/2008 3:13:43 PM
Surr: 1,2-Dichloroethane-d4	98.2	68.1-123		%REC	1	2/14/2008 3:13:43 PM
Surr: 4-Bromofluorobenzene	106	53.2-145		%REC	1	2/14/2008 3:13:43 PM
Surr: Dibromofluoromethane	94.0	68.5-119		%REC	1	2/14/2008 3:13:43 PM
Surr: Toluene-d8	98.3	64-131		%REC	1	2/14/2008 3:13:43 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-21
Lab Order:	0802178	**Collection Date:**	2/13/2008 8:04:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Benzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Toluene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Ethylbenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Naphthalene	ND	2.0		µg/L	1	2/14/2008 3:49:25 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	2/14/2008 3:49:25 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	2/14/2008 3:49:25 PM
Acetone	ND	10		µg/L	1	2/14/2008 3:49:25 PM
Bromobenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Bromodichloromethane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Bromoform	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Bromomethane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
2-Butanone	ND	10		µg/L	1	2/14/2008 3:49:25 PM
Carbon disulfide	ND	10		µg/L	1	2/14/2008 3:49:25 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Chlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Chloroethane	ND	2.0		µg/L	1	2/14/2008 3:49:25 PM
Chloroform	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Chloromethane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
2-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
4-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
cis-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/14/2008 3:49:25 PM
Dibromochloromethane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Dibromomethane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	2/14/2008 3:49:25 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
2-Hexanone	ND	10		µg/L	1	2/14/2008 3:49:25 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-21
Lab Order:	0802178	**Collection Date:**	2/13/2008 8:04:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Isopropylbenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	2/14/2008 3:49:25 PM
Methylene Chloride	ND	3.0		µg/L	1	2/14/2008 3:49:25 PM
n-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
n-Propylbenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
sec-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Styrene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
tert-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/14/2008 3:49:25 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
trans-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/14/2008 3:49:25 PM
Vinyl chloride	ND	1.0		µg/L	1	2/14/2008 3:49:25 PM
Xylenes, Total	ND	1.5		µg/L	1	2/14/2008 3:49:25 PM
Surr: 1,2-Dichloroethane-d4	98.3	68.1-123		%REC	1	2/14/2008 3:49:25 PM
Surr: 4-Bromofluorobenzene	108	53.2-145		%REC	1	2/14/2008 3:49:25 PM
Surr: Dibromofluoromethane	94.9	68.5-119		%REC	1	2/14/2008 3:49:25 PM
Surr: Toluene-d8	101	64-131		%REC	1	2/14/2008 3:49:25 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-19
Lab Order:	0802178	**Collection Date:**	2/13/2008 8:55:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Benzene	2.4	1.0		µg/L	1	2/14/2008 4:24:58 PM
Toluene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Ethylbenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,2-Dichloroethane (EDC)	10	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Naphthalene	ND	2.0		µg/L	1	2/14/2008 4:24:58 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	2/14/2008 4:24:58 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	2/14/2008 4:24:58 PM
Acetone	ND	10		µg/L	1	2/14/2008 4:24:58 PM
Bromobenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Bromodichloromethane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Bromoform	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Bromomethane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
2-Butanone	ND	10		µg/L	1	2/14/2008 4:24:58 PM
Carbon disulfide	ND	10		µg/L	1	2/14/2008 4:24:58 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Chlorobenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Chloroethane	ND	2.0		µg/L	1	2/14/2008 4:24:58 PM
Chloroform	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Chloromethane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
2-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
4-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
cis-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/14/2008 4:24:58 PM
Dibromochloromethane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Dibromomethane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,2-Dichloropropane	1.0	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	2/14/2008 4:24:58 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
2-Hexanone	ND	10		µg/L	1	2/14/2008 4:24:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-19
Lab Order:	0802178	**Collection Date:**	2/13/2008 8:55:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Isopropylbenzene	2.6	1.0		µg/L	1	2/14/2008 4:24:58 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	2/14/2008 4:24:58 PM
Methylene Chloride	ND	3.0		µg/L	1	2/14/2008 4:24:58 PM
n-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
n-Propylbenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
sec-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Styrene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
tert-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/14/2008 4:24:58 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
trans-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/14/2008 4:24:58 PM
Vinyl chloride	ND	1.0		µg/L	1	2/14/2008 4:24:58 PM
Xylenes, Total	ND	1.5		µg/L	1	2/14/2008 4:24:58 PM
Surr: 1,2-Dichloroethane-d4	93.7	68.1-123		%REC	1	2/14/2008 4:24:58 PM
Surr: 4-Bromofluorobenzene	109	53.2-145		%REC	1	2/14/2008 4:24:58 PM
Surr: Dibromofluoromethane	90.9	68.5-119		%REC	1	2/14/2008 4:24:58 PM
Surr: Toluene-d8	95.0	64-131		%REC	1	2/14/2008 4:24:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-5
Lab Order:	0802178	**Collection Date:**	2/13/2008 9:40:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Benzene	26	1.0		µg/L	1	2/14/2008 7:57:34 PM
Toluene	1.1	1.0		µg/L	1	2/14/2008 7:57:34 PM
Ethylbenzene	24	1.0		µg/L	1	2/14/2008 7:57:34 PM
Methyl tert-butyl ether (MTBE)	140	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,2,4-Trimethylbenzene	3.7	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Naphthalene	4.5	2.0		µg/L	1	2/14/2008 7:57:34 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	2/14/2008 7:57:34 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	2/14/2008 7:57:34 PM
Acetone	ND	10		µg/L	1	2/14/2008 7:57:34 PM
Bromobenzene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Bromodichloromethane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Bromoform	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Bromomethane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
2-Butanone	ND	10		µg/L	1	2/14/2008 7:57:34 PM
Carbon disulfide	ND	10		µg/L	1	2/14/2008 7:57:34 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Chlorobenzene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Chloroethane	ND	2.0		µg/L	1	2/14/2008 7:57:34 PM
Chloroform	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Chloromethane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
2-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
4-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
cis-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/14/2008 7:57:34 PM
Dibromochloromethane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Dibromomethane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	2/14/2008 7:57:34 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
2-Hexanone	ND	10		µg/L	1	2/14/2008 7:57:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-5
Lab Order:	0802178	**Collection Date:**	2/13/2008 9:40:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Isopropylbenzene	1.2	1.0		µg/L	1	2/14/2008 7:57:34 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	2/14/2008 7:57:34 PM
Methylene Chloride	ND	3.0		µg/L	1	2/14/2008 7:57:34 PM
n-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
n-Propylbenzene	3.4	1.0		µg/L	1	2/14/2008 7:57:34 PM
sec-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Styrene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
tert-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/14/2008 7:57:34 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
trans-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/14/2008 7:57:34 PM
Vinyl chloride	ND	1.0		µg/L	1	2/14/2008 7:57:34 PM
Xylenes, Total	ND	1.5		µg/L	1	2/14/2008 7:57:34 PM
Surr: 1,2-Dichloroethane-d4	95.9	68.1-123		%REC	1	2/14/2008 7:57:34 PM
Surr: 4-Bromofluorobenzene	112	53.2-145		%REC	1	2/14/2008 7:57:34 PM
Surr: Dibromofluoromethane	95.2	68.5-119		%REC	1	2/14/2008 7:57:34 PM
Surr: Toluene-d8	100	64-131		%REC	1	2/14/2008 7:57:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-11
Lab Order:	0802178	**Collection Date:**	2/13/2008 10:20:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Benzene	3.2	1.0		µg/L	1	2/14/2008 9:08:14 PM
Toluene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Ethylbenzene	41	1.0		µg/L	1	2/14/2008 9:08:14 PM
Methyl tert-butyl ether (MTBE)	540	10		µg/L	10	2/14/2008 8:32:48 PM
1,2,4-Trimethylbenzene	5.4	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,3,5-Trimethylbenzene	9.5	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,2-Dichloroethane (EDC)	37	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Naphthalene	ND	2.0		µg/L	1	2/14/2008 9:08:14 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	2/14/2008 9:08:14 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	2/14/2008 9:08:14 PM
Acetone	ND	10		µg/L	1	2/14/2008 9:08:14 PM
Bromobenzene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Bromodichloromethane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Bromoform	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Bromomethane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
2-Butanone	ND	10		µg/L	1	2/14/2008 9:08:14 PM
Carbon disulfide	ND	10		µg/L	1	2/14/2008 9:08:14 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Chlorobenzene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Chloroethane	ND	2.0		µg/L	1	2/14/2008 9:08:14 PM
Chloroform	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Chloromethane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
2-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
4-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
cis-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/14/2008 9:08:14 PM
Dibromochloromethane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Dibromomethane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	2/14/2008 9:08:14 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
2-Hexanone	ND	10		µg/L	1	2/14/2008 9:08:14 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-11
Lab Order:	0802178	**Collection Date:**	2/13/2008 10:20:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Isopropylbenzene	6.9	1.0		µg/L	1	2/14/2008 9:08:14 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	2/14/2008 9:08:14 PM
Methylene Chloride	ND	3.0		µg/L	1	2/14/2008 9:08:14 PM
n-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
n-Propylbenzene	9.4	1.0		µg/L	1	2/14/2008 9:08:14 PM
sec-Butylbenzene	7.5	1.0		µg/L	1	2/14/2008 9:08:14 PM
Styrene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
tert-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/14/2008 9:08:14 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
trans-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/14/2008 9:08:14 PM
Vinyl chloride	ND	1.0		µg/L	1	2/14/2008 9:08:14 PM
Xylenes, Total	5.1	1.5		µg/L	1	2/14/2008 9:08:14 PM
Surr: 1,2-Dichloroethane-d4	88.4	68.1-123		%REC	1	2/14/2008 9:08:14 PM
Surr: 4-Bromofluorobenzene	107	53.2-145		%REC	1	2/14/2008 9:08:14 PM
Surr: Dibromofluoromethane	93.1	68.5-119		%REC	1	2/14/2008 9:08:14 PM
Surr: Toluene-d8	98.6	64-131		%REC	1	2/14/2008 9:08:14 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-16
Lab Order:	0802178	**Collection Date:**	2/13/2008 11:09:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Benzene	630	10		µg/L	10	2/14/2008 9:43:37 PM
Toluene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Ethylbenzene	12	1.0		µg/L	1	2/14/2008 10:19:00 PM
Methyl tert-butyl ether (MTBE)	47	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,2,4-Trimethylbenzene	51	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,3,5-Trimethylbenzene	53	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,2-Dichloroethane (EDC)	17	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Naphthalene	77	2.0		µg/L	1	2/14/2008 10:19:00 PM
1-Methylnaphthalene	95	4.0		µg/L	1	2/14/2008 10:19:00 PM
2-Methylnaphthalene	170	40		µg/L	10	2/14/2008 9:43:37 PM
Acetone	ND	10		µg/L	1	2/14/2008 10:19:00 PM
Bromobenzene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Bromodichloromethane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Bromoform	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Bromomethane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
2-Butanone	ND	10		µg/L	1	2/14/2008 10:19:00 PM
Carbon disulfide	ND	10		µg/L	1	2/14/2008 10:19:00 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Chlorobenzene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Chloroethane	ND	2.0		µg/L	1	2/14/2008 10:19:00 PM
Chloroform	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Chloromethane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
2-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
4-Chlorotoluene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
cis-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/14/2008 10:19:00 PM
Dibromochloromethane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Dibromomethane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	2/14/2008 10:19:00 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
2-Hexanone	ND	10		µg/L	1	2/14/2008 10:19:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-16
Lab Order:	0802178	**Collection Date:**	2/13/2008 11:09:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Isopropylbenzene	12	1.0		µg/L	1	2/14/2008 10:19:00 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	2/14/2008 10:19:00 PM
Methylene Chloride	ND	3.0		µg/L	1	2/14/2008 10:19:00 PM
n-Butylbenzene	21	1.0		µg/L	1	2/14/2008 10:19:00 PM
n-Propylbenzene	17	1.0		µg/L	1	2/14/2008 10:19:00 PM
sec-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Styrene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
tert-Butylbenzene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/14/2008 10:19:00 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
trans-1,2-DCE	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/14/2008 10:19:00 PM
Vinyl chloride	ND	1.0		µg/L	1	2/14/2008 10:19:00 PM
Xylenes, Total	8.6	1.5		µg/L	1	2/14/2008 10:19:00 PM
Surr: 1,2-Dichloroethane-d4	88.9	68.1-123		%REC	1	2/14/2008 10:19:00 PM
Surr: 4-Bromofluorobenzene	118	53.2-145		%REC	1	2/14/2008 10:19:00 PM
Surr: Dibromofluoromethane	92.8	68.5-119		%REC	1	2/14/2008 10:19:00 PM
Surr: Toluene-d8	98.4	64-131		%REC	1	2/14/2008 10:19:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-9
Lab Order:	0802178	**Collection Date:**	2/13/2008 11:50:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Benzene	7500	100		µg/L	100	2/18/2008 4:18:50 PM
Toluene	130	10		µg/L	10	2/14/2008 10:54:32 PM
Ethylbenzene	910	10		µg/L	10	2/14/2008 10:54:32 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,2,4-Trimethylbenzene	460	10		µg/L	10	2/14/2008 10:54:32 PM
1,3,5-Trimethylbenzene	160	10		µg/L	10	2/14/2008 10:54:32 PM
1,2-Dichloroethane (EDC)	450	10		µg/L	10	2/14/2008 10:54:32 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Naphthalene	75	20		µg/L	10	2/14/2008 10:54:32 PM
1-Methylnaphthalene	ND	40		µg/L	10	2/14/2008 10:54:32 PM
2-Methylnaphthalene	54	40		µg/L	10	2/14/2008 10:54:32 PM
Acetone	ND	100		µg/L	10	2/14/2008 10:54:32 PM
Bromobenzene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Bromodichloromethane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Bromoform	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Bromomethane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
2-Butanone	ND	100		µg/L	10	2/14/2008 10:54:32 PM
Carbon disulfide	ND	100		µg/L	10	2/14/2008 10:54:32 PM
Carbon Tetrachloride	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Chlorobenzene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Chloroethane	ND	20		µg/L	10	2/14/2008 10:54:32 PM
Chloroform	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Chloromethane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
2-Chlorotoluene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
4-Chlorotoluene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
cis-1,2-DCE	ND	10		µg/L	10	2/14/2008 10:54:32 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	2/14/2008 10:54:32 PM
Dibromochloromethane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Dibromomethane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Dichlorodifluoromethane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,1-Dichloroethane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,1-Dichloroethene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,2-Dichloropropane	31	10		µg/L	10	2/14/2008 10:54:32 PM
1,3-Dichloropropane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
2,2-Dichloropropane	ND	20		µg/L	10	2/14/2008 10:54:32 PM
1,1-Dichloropropene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Hexachlorobutadiene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
2-Hexanone	ND	100		µg/L	10	2/14/2008 10:54:32 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-9
Lab Order:	0802178	**Collection Date:**	2/13/2008 11:50:00 AM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Isopropylbenzene	35	10		µg/L	10	2/14/2008 10:54:32 PM
4-Isopropyltoluene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	2/14/2008 10:54:32 PM
Methylene Chloride	ND	30		µg/L	10	2/14/2008 10:54:32 PM
n-Butylbenzene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
n-Propylbenzene	110	10		µg/L	10	2/14/2008 10:54:32 PM
sec-Butylbenzene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Styrene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
tert-Butylbenzene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	2/14/2008 10:54:32 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	2/14/2008 10:54:32 PM
trans-1,2-DCE	ND	10		µg/L	10	2/14/2008 10:54:32 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Trichloroethene (TCE)	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Trichlorofluoromethane	ND	10		µg/L	10	2/14/2008 10:54:32 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	2/14/2008 10:54:32 PM
Vinyl chloride	ND	10		µg/L	10	2/14/2008 10:54:32 PM
Xylenes, Total	590	15		µg/L	10	2/14/2008 10:54:32 PM
Surr: 1,2-Dichloroethane-d4	86.9	68.1-123		%REC	10	2/14/2008 10:54:32 PM
Surr: 4-Bromofluorobenzene	106	53.2-145		%REC	10	2/14/2008 10:54:32 PM
Surr: Dibromofluoromethane	94.0	68.5-119		%REC	10	2/14/2008 10:54:32 PM
Surr: Toluene-d8	99.7	64-131		%REC	10	2/14/2008 10:54:32 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-8
Lab Order:	0802178	**Collection Date:**	2/13/2008 12:33:00 PM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-08	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Benzene	27000	400		µg/L	400	2/15/2008 12:04:55 AM
Toluene	39000	400		µg/L	400	2/15/2008 12:04:55 AM
Ethylbenzene	4800	50		µg/L	50	2/15/2008 11:10:50 AM
Methyl tert-butyl ether (MTBE)	8600	50		µg/L	50	2/15/2008 11:10:50 AM
1,2,4-Trimethylbenzene	4100	50		µg/L	50	2/15/2008 11:10:50 AM
1,3,5-Trimethylbenzene	1300	50		µg/L	50	2/15/2008 11:10:50 AM
1,2-Dichloroethane (EDC)	4000	400		µg/L	400	2/15/2008 12:04:55 AM
1,2-Dibromoethane (EDB)	670	50		µg/L	50	2/15/2008 11:10:50 AM
Naphthalene	1100	100		µg/L	50	2/15/2008 11:10:50 AM
1-Methylnaphthalene	ND	200		µg/L	50	2/15/2008 11:10:50 AM
2-Methylnaphthalene	250	200		µg/L	50	2/15/2008 11:10:50 AM
Acetone	ND	500		µg/L	50	2/15/2008 11:10:50 AM
Bromobenzene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Bromodichloromethane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Bromoform	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Bromomethane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
2-Butanone	ND	500		µg/L	50	2/15/2008 11:10:50 AM
Carbon disulfide	ND	500		µg/L	50	2/15/2008 11:10:50 AM
Carbon Tetrachloride	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Chlorobenzene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Chloroethane	ND	100		µg/L	50	2/15/2008 11:10:50 AM
Chloroform	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Chloromethane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
2-Chlorotoluene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
4-Chlorotoluene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
cis-1,2-DCE	ND	50		µg/L	50	2/15/2008 11:10:50 AM
cis-1,3-Dichloropropene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	2/15/2008 11:10:50 AM
Dibromochloromethane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Dibromomethane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,2-Dichlorobenzene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,3-Dichlorobenzene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,4-Dichlorobenzene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Dichlorodifluoromethane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,1-Dichloroethane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,1-Dichloroethene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,2-Dichloropropane	280	50		µg/L	50	2/15/2008 11:10:50 AM
1,3-Dichloropropane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
2,2-Dichloropropane	ND	100		µg/L	50	2/15/2008 11:10:50 AM
1,1-Dichloropropene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Hexachlorobutadiene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
2-Hexanone	ND	500		µg/L	50	2/15/2008 11:10:50 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-8
Lab Order:	0802178	**Collection Date:**	2/13/2008 12:33:00 PM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-08	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Isopropylbenzene	130	50		µg/L	50	2/15/2008 11:10:50 AM
4-Isopropyltoluene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
4-Methyl-2-pentanone	ND	500		µg/L	50	2/15/2008 11:10:50 AM
Methylene Chloride	ND	150		µg/L	50	2/15/2008 11:10:50 AM
n-Butylbenzene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
n-Propylbenzene	530	50		µg/L	50	2/15/2008 11:10:50 AM
sec-Butylbenzene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Styrene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
tert-Butylbenzene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	2/15/2008 11:10:50 AM
Tetrachloroethene (PCE)	ND	50		µg/L	50	2/15/2008 11:10:50 AM
trans-1,2-DCE	ND	50		µg/L	50	2/15/2008 11:10:50 AM
trans-1,3-Dichloropropene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,1,1-Trichloroethane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,1,2-Trichloroethane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Trichloroethene (TCE)	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Trichlorofluoromethane	ND	50		µg/L	50	2/15/2008 11:10:50 AM
1,2,3-Trichloropropane	ND	100		µg/L	50	2/15/2008 11:10:50 AM
Vinyl chloride	ND	50		µg/L	50	2/15/2008 11:10:50 AM
Xylenes, Total	16000	600		µg/L	400	2/15/2008 12:04:55 AM
Surr: 1,2-Dichloroethane-d4	86.2	68.1-123		%REC	50	2/15/2008 11:10:50 AM
Surr: 4-Bromofluorobenzene	101	53.2-145		%REC	50	2/15/2008 11:10:50 AM
Surr: Dibromofluoromethane	95.5	68.5-119		%REC	50	2/15/2008 11:10:50 AM
Surr: Toluene-d8	94.7	64-131		%REC	50	2/15/2008 11:10:50 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-14
Lab Order:	0802178	**Collection Date:**	2/13/2008 1:13:00 PM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-09	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Benzene	30000	400		µg/L	400	2/15/2008 12:40:00 AM
Toluene	23000	400		µg/L	400	2/15/2008 12:40:00 AM
Ethylbenzene	4900	400		µg/L	400	2/15/2008 12:40:00 AM
Methyl tert-butyl ether (MTBE)	4400	50		µg/L	50	2/15/2008 12:21:17 PM
1,2,4-Trimethylbenzene	2500	50		µg/L	50	2/15/2008 12:21:17 PM
1,3,5-Trimethylbenzene	710	50		µg/L	50	2/15/2008 12:21:17 PM
1,2-Dichloroethane (EDC)	210	50		µg/L	50	2/15/2008 12:21:17 PM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Naphthalene	1000	100		µg/L	50	2/15/2008 12:21:17 PM
1-Methylnaphthalene	ND	200		µg/L	50	2/15/2008 12:21:17 PM
2-Methylnaphthalene	270	200		µg/L	50	2/15/2008 12:21:17 PM
Acetone	ND	500		µg/L	50	2/15/2008 12:21:17 PM
Bromobenzene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Bromodichloromethane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Bromoform	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Bromomethane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
2-Butanone	ND	500		µg/L	50	2/15/2008 12:21:17 PM
Carbon disulfide	ND	500		µg/L	50	2/15/2008 12:21:17 PM
Carbon Tetrachloride	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Chlorobenzene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Chloroethane	ND	100		µg/L	50	2/15/2008 12:21:17 PM
Chloroform	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Chloromethane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
2-Chlorotoluene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
4-Chlorotoluene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
cis-1,2-DCE	ND	50		µg/L	50	2/15/2008 12:21:17 PM
cis-1,3-Dichloropropene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	2/15/2008 12:21:17 PM
Dibromochloromethane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Dibromomethane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,2-Dichlorobenzene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,3-Dichlorobenzene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,4-Dichlorobenzene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Dichlorodifluoromethane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,1-Dichloroethane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,1-Dichloroethene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,2-Dichloropropane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,3-Dichloropropane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
2,2-Dichloropropane	ND	100		µg/L	50	2/15/2008 12:21:17 PM
1,1-Dichloropropene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Hexachlorobutadiene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
2-Hexanone	ND	500		µg/L	50	2/15/2008 12:21:17 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	W-14
Lab Order:	0802178	**Collection Date:**	2/13/2008 1:13:00 PM
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-09	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Isopropylbenzene	170	50		µg/L	50	2/15/2008 12:21:17 PM
4-Isopropyltoluene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
4-Methyl-2-pentanone	ND	500		µg/L	50	2/15/2008 12:21:17 PM
Methylene Chloride	ND	150		µg/L	50	2/15/2008 12:21:17 PM
n-Butylbenzene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
n-Propylbenzene	500	50		µg/L	50	2/15/2008 12:21:17 PM
sec-Butylbenzene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Styrene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
tert-Butylbenzene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	2/15/2008 12:21:17 PM
Tetrachloroethene (PCE)	ND	50		µg/L	50	2/15/2008 12:21:17 PM
trans-1,2-DCE	ND	50		µg/L	50	2/15/2008 12:21:17 PM
trans-1,3-Dichloropropene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,1,1-Trichloroethane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,1,2-Trichloroethane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Trichloroethene (TCE)	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Trichlorofluoromethane	ND	50		µg/L	50	2/15/2008 12:21:17 PM
1,2,3-Trichloropropane	ND	100		µg/L	50	2/15/2008 12:21:17 PM
Vinyl chloride	ND	50		µg/L	50	2/15/2008 12:21:17 PM
Xylenes, Total	13000	75		µg/L	50	2/15/2008 12:21:17 PM
Surr: 1,2-Dichloroethane-d4	91.9	68.1-123		%REC	50	2/15/2008 12:21:17 PM
Surr: 4-Bromofluorobenzene	101	53.2-145		%REC	50	2/15/2008 12:21:17 PM
Surr: Dibromofluoromethane	89.4	68.5-119		%REC	50	2/15/2008 12:21:17 PM
Surr: Toluene-d8	96.5	64-131		%REC	50	2/15/2008 12:21:17 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	TRIP BLANK
Lab Order:	0802178	**Collection Date:**	
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-10	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Benzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Toluene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Ethylbenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Naphthalene	ND	2.0		µg/L	1	2/15/2008 1:15:25 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	2/15/2008 1:15:25 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	2/15/2008 1:15:25 AM
Acetone	ND	10		µg/L	1	2/15/2008 1:15:25 AM
Bromobenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Bromodichloromethane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Bromoform	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Bromomethane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
2-Butanone	ND	10		µg/L	1	2/15/2008 1:15:25 AM
Carbon disulfide	ND	10		µg/L	1	2/15/2008 1:15:25 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Chlorobenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Chloroethane	ND	2.0		µg/L	1	2/15/2008 1:15:25 AM
Chloroform	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Chloromethane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
2-Chlorotoluene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
4-Chlorotoluene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
cis-1,2-DCE	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	2/15/2008 1:15:25 AM
Dibromochloromethane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Dibromomethane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	2/15/2008 1:15:25 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
2-Hexanone	ND	10		µg/L	1	2/15/2008 1:15:25 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *21-Feb-08*

CLIENT:	Golder Associates	**Client Sample ID:**	TRIP BLANK
Lab Order:	0802178	**Collection Date:**	
Project:	Walstad 66	**Date Received:**	2/14/2008
Lab ID:	0802178-10	**Matrix:**	TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **SMP**
Isopropylbenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	2/15/2008 1:15:25 AM
Methylene Chloride	ND	3.0		µg/L	1	2/15/2008 1:15:25 AM
n-Butylbenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
n-Propylbenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
sec-Butylbenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Styrene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
tert-Butylbenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	2/15/2008 1:15:25 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
trans-1,2-DCE	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	2/15/2008 1:15:25 AM
Vinyl chloride	ND	1.0		µg/L	1	2/15/2008 1:15:25 AM
Xylenes, Total	ND	1.5		µg/L	1	2/15/2008 1:15:25 AM
Surr: 1,2-Dichloroethane-d4	97.6	68.1-123		%REC	1	2/15/2008 1:15:25 AM
Surr: 4-Bromofluorobenzene	105	53.2-145		%REC	1	2/15/2008 1:15:25 AM
Surr: Dibromofluoromethane	92.9	68.5-119		%REC	1	2/15/2008 1:15:25 AM
Surr: Toluene-d8	103	64-131		%REC	1	2/15/2008 1:15:25 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Golder Associates
Project: Walstad 66 **Work Order:** 0802178

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 0802178-03a msd		*MSD*			Batch ID:	**R27336**	Analysis Date:		2/14/2008 5:35:29 PM
Benzene	23.41	µg/L	1.0	105	72.4	126	2.06	15	
Toluene	19.74	µg/L	1.0	98.7	79.2	115	2.48	15	
Chlorobenzene	19.19	µg/L	1.0	96.0	83.1	111	1.09	15	
1,1-Dichloroethene	21.11	µg/L	1.0	106	81.4	122	4.65	17.8	
Trichloroethene (TCE)	17.52	µg/L	1.0	87.6	64.4	118	3.40	19.8	
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R27336**	Analysis Date:		2/14/2008 6:19:59 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Golder Associates
Project: Walstad 66 **Work Order:** 0802178

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID: **R27336**		Analysis Date:	2/14/2008 6:19:59 AM	
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 5ml rb		*MBLK*			Batch ID: **R27363**		Analysis Date:	2/15/2008 5:35:05 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Golder Associates
Project: Walstad 66 **Work Order:** 0802178

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID: **R27363**		Analysis Date:	2/15/2008 5:35:05 AM	
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Golder Associates
Project: Walstad 66 **Work Order:** 0802178

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R27363**	Analysis Date:	2/15/2008 5:35:05 AM	
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R27382**	Analysis Date:	2/18/2008 8:39:42 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Golder Associates
Project: Walstad 66 **Work Order:** 0802178

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID: **R27382**		Analysis Date:	2/18/2008 8:39:42 AM	
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: b3		*MBLK*			Batch ID: **R27407**		Analysis Date:	2/19/2008 9:56:22 AM	
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Golder Associates
Project: Walstad 66 **Work Order:** 0802178

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: b3		*MBLK*			Batch ID: **R27407**		Analysis Date:	2/19/2008 9:56:22 AM	
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Golder Associates
Project: Walstad 66 **Work Order:** 0802178

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: b3		*MBLK*			Batch ID:	**R27407**	Analysis Date:	2/19/2008 9:56:22 AM	
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R27336**	Analysis Date:	2/14/2008 7:30:31 AM	
Benzene	21.01	µg/L	1.0	105	72.4	126			
Toluene	20.80	µg/L	1.0	104	79.2	115			
Chlorobenzene	19.36	µg/L	1.0	96.8	83.1	111			
1,1-Dichloroethene	22.11	µg/L	1.0	111	81.4	122			
Trichloroethene (TCE)	18.50	µg/L	1.0	92.5	64.4	118			
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R27363**	Analysis Date:	2/15/2008 6:45:29 AM	
Benzene	20.82	µg/L	1.0	104	72.4	126			
Toluene	20.78	µg/L	1.0	104	79.2	115			
Chlorobenzene	19.95	µg/L	1.0	99.7	83.1	111			
1,1-Dichloroethene	21.49	µg/L	1.0	107	81.4	122			
Trichloroethene (TCE)	18.07	µg/L	1.0	90.3	64.4	118			
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R27382**	Analysis Date:	2/18/2008 9:49:26 AM	
Benzene	21.63	µg/L	1.0	108	72.4	126			
Toluene	19.56	µg/L	1.0	97.8	79.2	115			
Chlorobenzene	19.28	µg/L	1.0	96.4	83.1	111			
1,1-Dichloroethene	23.15	µg/L	1.0	116	81.4	122			
Trichloroethene (TCE)	18.60	µg/L	1.0	93.0	64.4	118			
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R27407**	Analysis Date:	2/19/2008 11:24:27 AM	
Benzene	22.13	µg/L	1.0	111	72.4	126			
Toluene	19.16	µg/L	1.0	95.8	79.2	115			
Chlorobenzene	19.20	µg/L	1.0	96.0	83.1	111			
1,1-Dichloroethene	22.73	µg/L	1.0	114	81.4	122			
Trichloroethene (TCE)	19.02	µg/L	1.0	95.1	64.4	118			
Sample ID: 0802178-03a ms		*MS*			Batch ID:	**R27336**	Analysis Date:	2/14/2008 5:00:16 PM	
Benzene	23.90	µg/L	1.0	108	72.4	126			
Toluene	20.24	µg/L	1.0	101	79.2	115			
Chlorobenzene	19.40	µg/L	1.0	97.0	83.1	111			
1,1-Dichloroethene	22.12	µg/L	1.0	111	81.4	122			
Trichloroethene (TCE)	18.13	µg/L	1.0	90.6	64.4	118			

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name GOLDER ASSOC | Date Received: 2/14/2008

Work Order Number 0802178 | Received by: ARS

Checklist completed by: Tamyr Shomin (Signature) 2/14/08 (Date) | Sample ID labels checked by TS (Initials)

Matrix | Carrier name Client drop-off

Shipping container/cooler in good condition?		Yes ☑	No ☐	Not Present ☐			
Custody seals intact on shipping container/cooler?		Yes ☐	No ☐	Not Present ☐	Not Shipped	☑	
Custody seals intact on sample bottles?		Yes ☐	No ☐	N/A ☑			
Chain of custody present?		Yes ☑	No ☐				
Chain of custody signed when relinquished and received?		Yes ☑	No ☐				
Chain of custody agrees with sample labels?		Yes ☑	No ☐				
Samples in proper container/bottle?		Yes ☑	No ☐				
Sample containers intact?		Yes ☑	No ☐				
Sufficient sample volume for indicated test?		Yes ☑	No ☐				
All samples received within holding time?		Yes ☑	No ☐				
Water - VOA vials have zero headspace?	No VOA vials submitted ☐		Yes ☑	No ☐			
Water - Preservation labels on bottle and cap match?		Yes ☐	No ☐	N/A ☑			
Water - pH acceptable upon receipt?		Yes ☐	No ☐	N/A ☑			

Container/Temp Blank temperature? 1° <6° C *Acceptable*

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: GOLDER ASSOCIATES INC

Address: 5200 PASEO NE STE
ALBUQUERQUE NM 87113

Phone #: 505 821 3043

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: WALSTED GG

Project #:

Project Manager: TERRY MEMBRES

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 6°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0802178	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8260)	8310 (PNA or PAH)	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
2/12/08	1250	MW-20	3 VOA		1										X		
2/13/08	804	MW-21	3 VOA		2										X		
2/13/08	855	MW-14	3 VOAs		3										X		
2/13/08	940	MW-5	3 VOAs		4										X		
2/13/08	1020	MW-11	"		5										X		
2/13/08	1109	MW-16	"		6										X		
"	1150	MW-9	"		7										X		
"	1233	MW-8	"		8										X		
"	1313	MW-14	"		9										X		
		TRIP BLANKS			10										X		

Date: 2/14/08 Time: 848 Relinquished by: Received by:

Date: Time: Relinquished by: Received by: 2/14/08 8:48

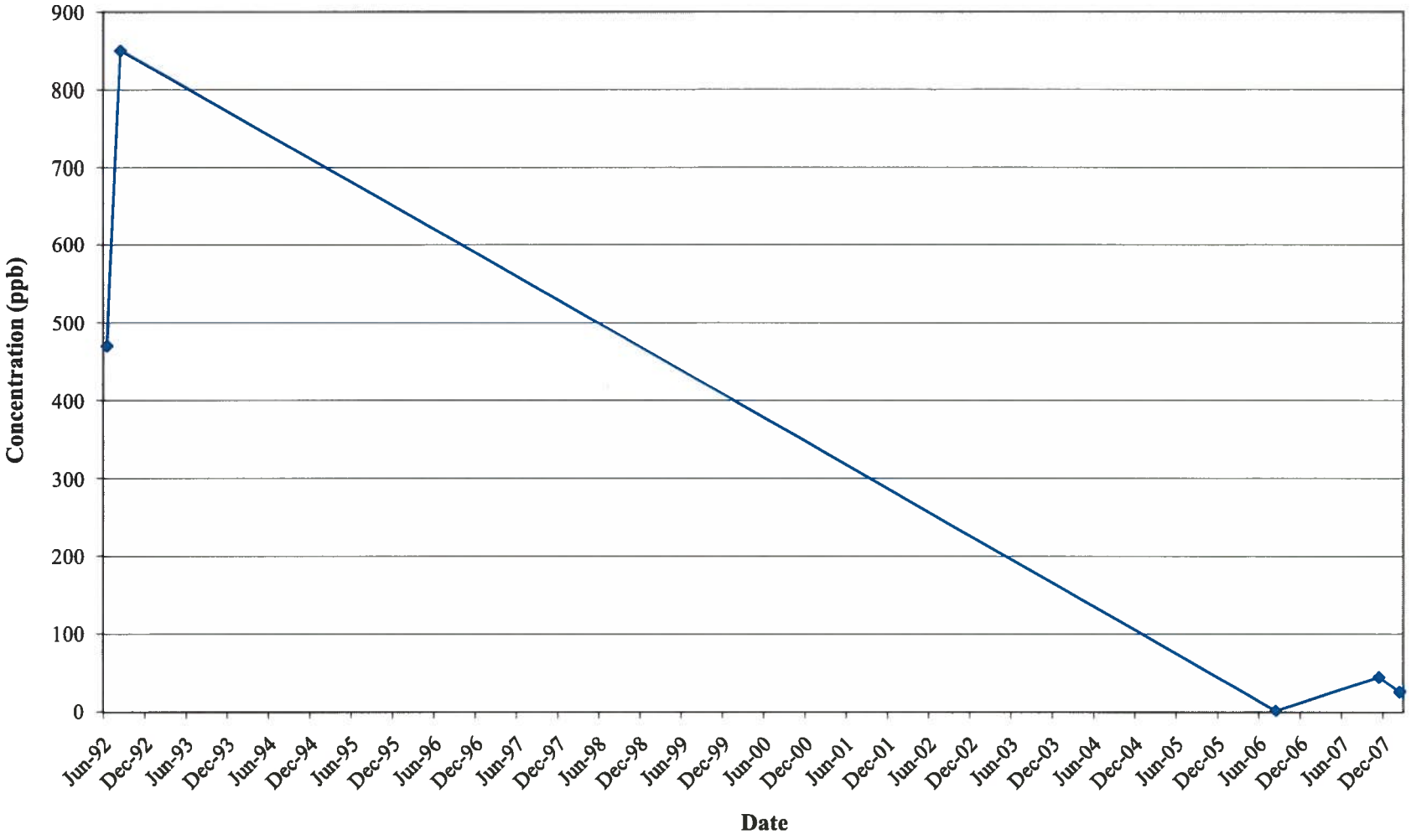
Remarks: PER CONTRACT 11/3/05

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

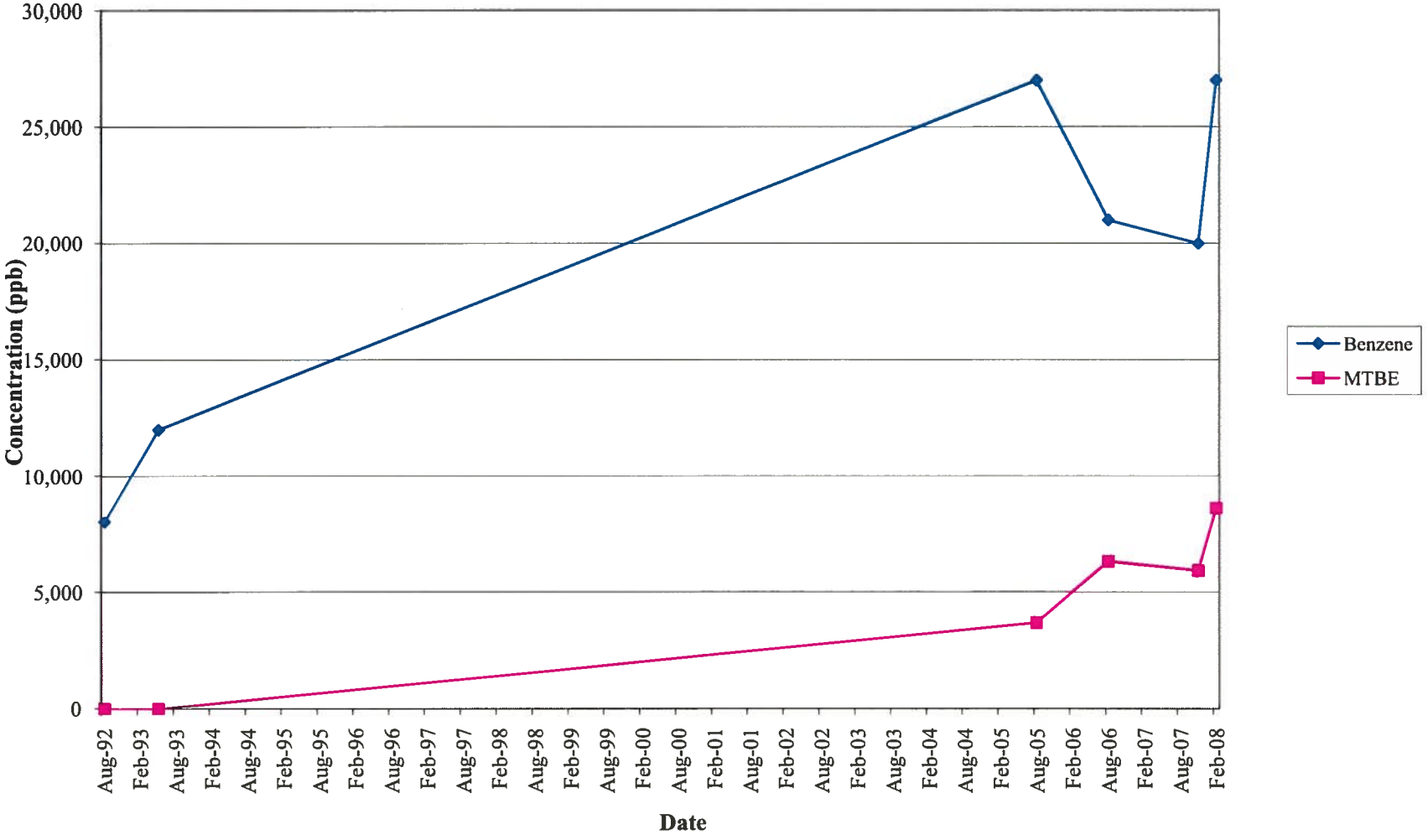
APPENDIX D

CONCENTRATION TRENDS

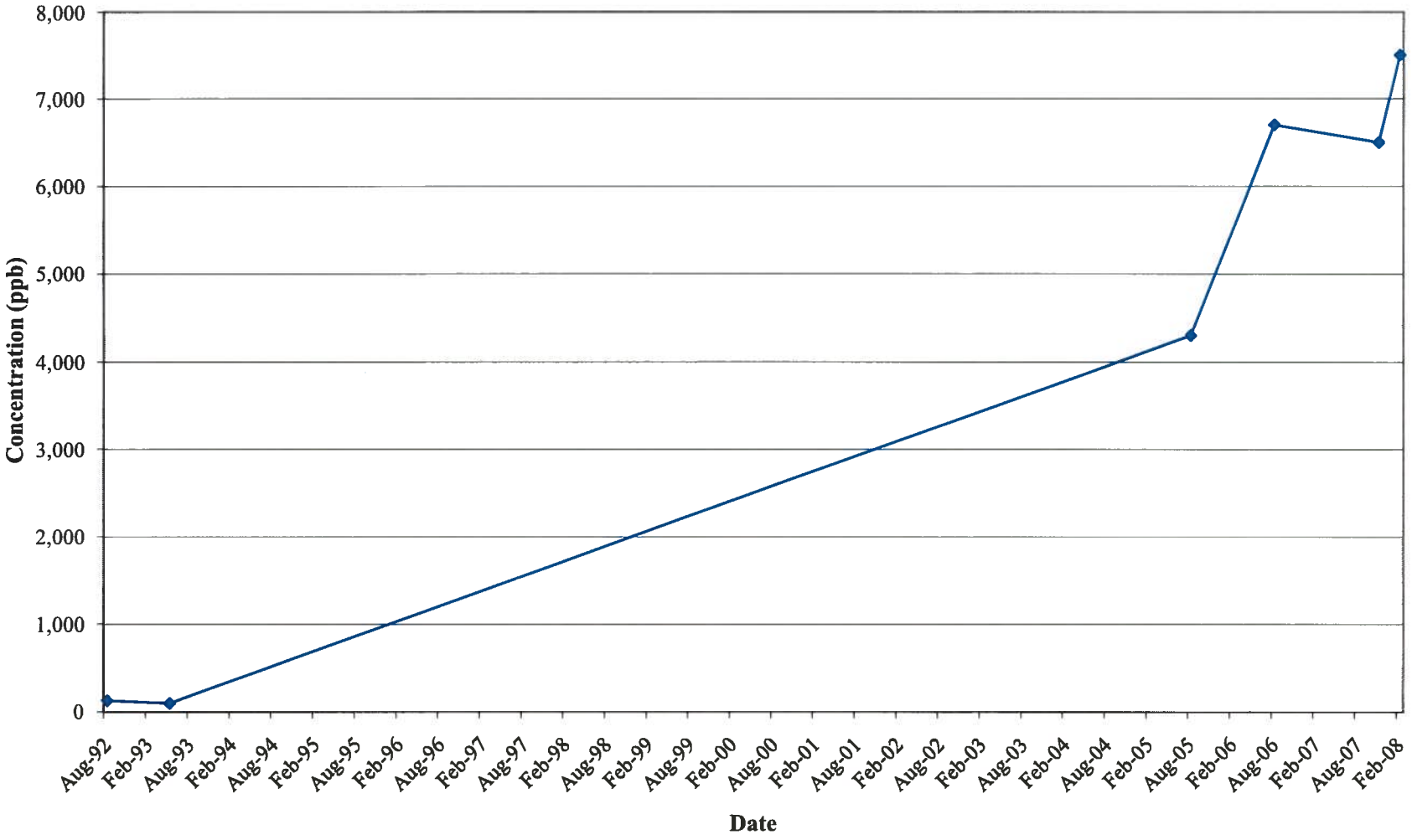
Benzene Trend for W-5



Benzene and MTBE Trend for W-8



Benzene Trend for W-9



Golder Associates Inc.
5200 Pasadena N.E., Suite C
Albuquerque, NM USA 87113
Telephone (505) 821-3043
Fax (505) 821-5273
www.golder.com

Golder Associates

March 20, 2008

Mr. TC Shapard
NMED PSTB District 4
1914 West Second
Roswell, New Mexico 88201

**RE: GROUNDWATER MONITORING REPORT,
LOVINGTON 66,
LOVINGTON, NEW MEXICO**

Dear Mr. Shapard:

Enclosed, please find the Groundwater Monitoring Report for the Lovington 66 site located in, Lovington, New Mexico.

If you have any questions, please feel free to contact me at (505) 821-3043.

Sincerely,

GOLDER ASSOCIATES INC.

Teri McMillan
Senior Scientist

cc: Jim Maddox, Maddox, Holloman & Kirksey P.C.