

ORIGINAL

December 12, 2008

Manager
Eastern Region Hazardous Waste Program
Oregon Department of Environmental Quality
475 NE Bellevue Drive
Suite 110
Bend, Oregon 97701



SUBJ: Groundwater Corrective Action Effectiveness Report
Third and Fourth Quarter 2008
Permapost Products Company
Hazardous Waste Post-Closure Permit ORD 009 041 187

Dear Sir or Madam:

On behalf of Permapost Products Company (Permapost), Delta Consultants (Delta) has evaluated the effectiveness of the groundwater corrective action program, as required by Sections IV.H.2 and IV.H.3 of the Permapost Hazardous Waste Post-Closure Permit ORD 009 041 187 (the Permit, see Figure 1).

Section IV.H.2 requires Permapost to evaluate the effectiveness of the corrective action on a semi-annual basis (December and June). Section IV.H.3 requires that the reports include information as described in Permit sections IV.D (groundwater sampling and analysis procedures), IV.E (quarterly groundwater elevation data), IV.F (statistical reduction of data), IV.G (semi annual groundwater monitoring program, see Table 1), and Section 6 of Attachment 1 of the Permit (corrective action reporting).

This report represents the first corrective action effectiveness report since the Permit was issued on September 17, 2008. Because the Permit has only been in effect since September 2008, the report reflects data collected in fourth quarter 2008.

RECEIVED

DEC 17 2008

Eastern Region - Bend

a member of:



4640 SW MACADAM AVENUE SUITE 110 PORTLAND, OREGON 97239 USA
PHONE 503.639.8098 / 800.477.7411 FAX 503.639.7619 WWW.DELTAENV.COM

EFFECTIVENESS OF CORRECTIVE ACTION

Section 6.0 of the Groundwater Extraction, Treatment and Redistribution Plan specifies that effective performance of the corrective action will be demonstrated by:

Determining that pentachlorophenol (PCP) concentrations in monitoring wells P-18b and P-19b remain statistically unchanged or decreasing. This will be demonstrated using linear regression analyses of new data combined with the historical data from the start of the pulse pumping schedule (March, 1995). The significance (significantly different from no slope) of the linear fit of the data will then be evaluated to a 95% confidence level.

The September 2008 groundwater sampling event was the 28th event performed since 1995. Linear regression analyses of data from the 28 sampling events show that the PCP concentrations in groundwater from both monitoring well P-18b and P-19b are decreasing (improving) at a statistically significant rate (95% confidence level, t distribution). Time series graphs for P-18b and P-19b show that PCP concentrations in these wells has remained consistent since 2000 suggesting the plume has reached steady state and stable. The data show that the corrective action remains effective in preventing further offsite contaminant migration. Analytical results of the September 2008 event are summarized in Table 2. Laboratory analytical results and time series graphs showing PCP concentrations vs. time for each well are presented in Appendix A. Statistical reduction data are presented in Appendix B.

Determining whether the groundwater recovery system is successfully preventing further offsite migration of the PCP and arsenic plumes downgradient of the compliance boundary.

The following data show that the recovery system is preventing further offsite migration of PCP and arsenic downgradient of the compliance boundary;

- The PCP concentrations presented in the times series graphs in Appendix A show that PCP concentrations in downgradient monitoring wells and recovery wells have remained consistent, stable, and not increasing over the past 28 sampling events.
- Linear regression analyses show that PCP concentrations in groundwater from monitoring wells P-18b and P-19b are statistically decreasing (see Appendix B).
- The arsenic concentration in groundwater monitoring well P-19b remains below the Permit standard of 0.150 mg/L (see Table 2 and section 5.1.2 of Attachment 1 of the Permit).
- Groundwater elevation contour maps for pumping and non pumping periods show that the groundwater gradient is toward the northwest and the existing array of monitoring wells is sufficient to evaluate the downgradient migration of PCP and arsenic (see Figure 2). The maps also show that the recovery wells are providing the designed hydraulic influence and capture along the compliance boundary between recovery wells R-5 and R-2 (see Figure 3).
- The extent of PCP and arsenic plumes remains unchanged relative to previous sampling data from March 2008 (see Figures 4 and 5 and Delta's November 18, 2008 *Remedial Investigation Summary Report, Permapost Products, Inc.*).

Estimating the extent of plume migration during the non-pumping periods.

Plume migration was estimated by calculating the seepage velocities using equations presented in Fetter, *Applied Hydrogeology*, 1980. The seepage velocity is dependent upon hydraulic conductivity, effective porosity, and hydraulic gradient.

- Seepage Velocity (V_s) = $Kdh/n_e dl$ where K = hydraulic conductivity, dh/dl = hydraulic gradient, and n_e = effective porosity.

The following parameters were used to evaluate the seepage velocity.

- Hydraulic Conductivity of 0.0015 cm/sec. This is the highest measured hydraulic conductivity determined for downgradient wells as described in the March 15, 2001 *Contaminant Fate and Transport Final for Permapost Products* by Maul Foster and Alongi, Inc.
- Hydraulic Gradient of 0.030. This is average gradient calculated immediately downgradient from the compliance boundary near recovery well R-5 as shown in Figure 2.
- Effective Porosity of 0.25. This value was estimated from site bulk porosity data and site information as described in the March 15, 2001 *Contaminant Fate and Transport Final for Permapost Products* by Maul Foster and Alongi, Inc.

The calculated seepage velocity of 1.8×10^{-4} cm/sec indicates that groundwater advection would migrate 7.7 feet (0.51 feet per day) from the compliance boundary during the approximately 15 day non-pumping period. This estimate assumes that none of the PCP is attenuated and that PCP migrates at a velocity equal to groundwater advection. It should be noted that PCP has a strong affinity to sorb to naturally occurring organic carbon and some amount of contaminant attenuation can be expected, and therefore the calculated distance of migration is a conservative value. The hydraulic capture presented on Figure 3 show that upon reestablishing hydraulic influence the downgradient recovery system would recapture all PCP that migrated during the non-pumping period.

Estimating the change in groundwater discharge between the redistribution trench and the groundwater system between pumping and non pumping periods.

For the past 6 months, the groundwater recovery system has discharged treated water to the redistribution trench at a rate between 10 and 16 gallons per minute (gpm, see Appendix C). The discharge is redistributed through an infiltration gallery (redistribution trench) located hydraulically upgradient of the groundwater system. Two monitoring/access points (RMP-1 and RMP-2) are situated on each end of the trench (see Figures 2 and 3).

Groundwater discharge (flow) change between the non pumping and pumping periods is directly proportional to the change in hydraulic gradient and seepage velocities as discussed in other sections in this report. The rate of seepage velocities calculated for the site was 0.5 feet per day (non pumping) and 1.3 feet per day (pumping).

GENERAL PERFORMANCE MONITORING

Section 6.0 of the Groundwater Extraction, Treatment and Redistribution Plan also requires a summary of the previous two quarters' field and analytical data along with treatment system analytical data, a summary of oil recovery from recovery well R-6 and estimating groundwater flow and the groundwater flux (seepage velocities) during pumping periods.

Groundwater monitoring consists of semiannual groundwater sampling and analysis of both effectiveness and plume detection monitoring wells identified on Table 1. The purpose of the groundwater sampling and analysis is to monitor the general effectiveness of the corrective action in maintaining stable (diffusion limited) or improving PCP concentrations within the hydraulic containment system. Plume detection wells are located along the perimeter of the PCP plume and historically have not contained detectable PCP.

Semiannual Groundwater Sampling Results

Groundwater quality samples were collected on September 22 through September 24, 2008 from the wells in accordance with the requirements specified in Table 1. Sampling and analysis data are provided in Appendix A, field sampling data sheets are provided in Appendix D. The results have been validated and entered into the existing database. The initial laboratory report did not include the total suite of chlorophenolics that were requested. Subsequently, Delta requested that the laboratory review the testing data and, if possible, report the missing chlorophenolics in a report addendum. As of the writing of this report, Delta has not yet received the missing data.

Time series plots presented in Appendix A show that PCP concentrations have remained consistent with previous sampling events in all monitoring wells suggesting the corrective action is effective in keeping the downgradient PCP concentrations stable and diffusion limited. Also, groundwater from plume detection monitoring wells P-17R and P-18C do not contain detectable PCP (see Table 2).

Treatment System Analytical and Recovery Well R-6 Recovery Data

Table 3 presents a summary of the groundwater treatment system analytical results for 2008. The data show the groundwater treatment system is effective in reducing the concentrations of chlorophenolics to below the standards stipulated in the Permit. Influent arsenic concentrations remain below the Permit standard.

Table 4 presents the historical oil recovery data from recovery well R-6. To date, 860 gallons has been recovered from R-6.

Groundwater Flow and Seepage Velocities

Figures 2 and 3 and Table 5 present the groundwater elevation data and contours for non-pumping and pumping periods. Time series hydrographs for each well are presented in Appendix E. Groundwater elevation contour maps for pumping and non-pumping periods show that the groundwater gradient is toward the northwest and recovery wells are providing the designed hydraulic influence and capture along the compliance boundary between recovery wells R-5 and R-2 (see Figure 3).

A seepage velocity was estimated for pumping periods using the same hydraulic parameters and equation previously described. Relative to non-pumping periods, the hydraulic gradient in the immediate vicinity of the recovery system near recovery well R-5 increased from 0.030 (non-pumping) to 0.075 (pumping). This gradient increase equates to an increased groundwater flux through the source zone from 0.5 to 1.3 feet per day.

CONCLUSIONS

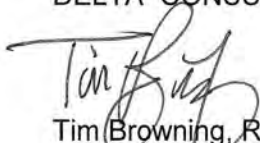
The effectiveness evaluation presented herein indicates that the groundwater corrective action hydraulic recovery system is effective in meeting the performance criteria specified in Section 6 of Attachment 1 of the Permit based on the following findings:

- Statistical reduction shows that PCP concentrations in monitoring wells P-18b and P-19b are decreasing (improving). Groundwater modeling showed that as long as concentrations of PCP in these monitoring wells remains statistically unchanged or statistically decreasing, the corrective action is effective.
- The arsenic concentration detected in monitoring well P-19b remains below the 0.150 mg/L effectiveness concentration.
- PCP concentrations in groundwater monitoring wells remain stable and are consistent with historical results.
- The recovery wells are providing hydraulic drawdown as designed.
- Plume detection monitoring wells P-17R and P-18c do not contain detectable concentrations of PCP.
- The extent of PCP and arsenic plumes remains unchanged.

Please call if you have questions or need additional information.

Sincerely,

DELTA CONSULTANTS


Tim Browning, R.G.
Senior Project Manager



Attachments: Table 1 – Corrective Action Monitoring Plan
Table 2 – Analytical Results Summary
Table 3 – Groundwater Treatment System – Analytical Results Summary
Table 4 – Groundwater Treatment System – R-6 Oil Recovery
Table 5 – Groundwater Elevations – 3rd and 4th Quarter 2008
Figure 1 – Site Vicinity Map
Figure 2 – Groundwater Elevation and Contour Map, non pumping
Figure 3 – Groundwater Elevation and Contour Map, pumping
Figure 4 – PCP Concentration Map
Figure 5 – Arsenic Concentration Map
Appendix A – Semiannual Groundwater Sampling Results, Time Series Plots - PCP
Appendix B – Statistical Data
Appendix C – Groundwater Monitoring Sheets
Appendix D – Field Sampling Data Sheets
Appendix E – Time Series Plots – Groundwater Elevations

cc: Jayne Bond; Permapost Products Company

Table 1
Groundwater Corrective Action Monitoring Plan
Permapost Products, Inc.
Hillsboro, Oregon

Station/Well	Purpose	Monitoring Frequency				Analytical	Screened Elevation	
		Chemistry	Month	Water Levels	Month	Testing	Top	Bottom
P-8	upgradient	annual	M	quarterly	M,J,S,D	CP	159.3	148.3
P-9	hydrology	--	--	quarterly	M,J,S,D	--	147.1	137.1
P-10	compliance	annual	M	quarterly	M,J,S,D	CP	147.5	137.5
P-11b	compliance	annual	M	quarterly	M,J,S,D	CP	155.1	140.1
P-11c	compliance	annual	M	quarterly	M,J,S,D	CP, As	103.1	91.1
P-12b	effectiveness	semi-annual	M,S	quarterly	M,J,S,D	CP	149.1	139.1
P-12c	effectiveness	semi-annual	M,S	quarterly	M,J,S,D	CP	133.6	123.6
P-14a	effectiveness	semi-annual	M,S	quarterly	M,J,S,D	CP	155.6	150.6
P-14b	effectiveness	semi-annual	M,S	quarterly	M,J,S,D	CP	144.0	139.0
P-14c	effectiveness	semi-annual	M,S	quarterly	M,J,S,D	CP	109.0	99.0
P-15a	hydrology	--	--	quarterly	M,J,S,D	--	148.6	143.6
P-15b	effectiveness	semi-annual	M,S	quarterly	M,J,S,D	CP	139.1	129.1
P-16	plume detection	semi-annual	M,S	quarterly	M,J,S,D	CP	133.7	123.7
P-17R	plume detection	semi-annual	M,S	quarterly	M,J,S,D	CP	138.3	128.3
P-18a	hydrology	--	--	quarterly	M,J,S,D	--	143.2	133.2
P-18b	effectiveness	semi-annual	M,S	quarterly	M,J,S,D	CP	122.9	112.9
P-18C	plume detection	semi-annual	M,S	quarterly	M,J,S,D	CP	97.9	92.9
P-19a	effectiveness	semi-annual	M,S	quarterly	M,J,S,D	CP	151.6	141.6
P-19b	effectiveness	semi-annual	M,S	quarterly	M,J,S,D	CP, As	133.5	123.5
P-21	compliance	annual	M	quarterly	M,J,S,D	CP	152.1	142.1
R-1	recovery	annual	S	quarterly	M,J,S,D	CP	165.3	135.3
R-2	recovery	annual	S	quarterly	M,J,S,D	CP, As	160.0	125.0
R-3	recovery	annual	S	quarterly	M,J,S,D	CP, As	159.3	129.3
R-4	recovery	annual	S	quarterly	M,J,S,D	CP	157.8	117.8
R-5	recovery	annual	S	quarterly	M,J,S,D	CP	160.8	130.8
R-6	recovery	well equipped with oil recovery stripper.						
R-7	recovery	annual	S	quarterly	M,J,S,D	CP, As	159.8	134.8
R-8	recovery	annual	S	quarterly	M,J,S,D	CP	161.2	141.2
R-9	recovery	annual	S	quarterly	M,J,S,D	CP	159.4	139.4
R-10	recovery	annual	S	quarterly	M,J,S,D	CP	158.2	123.2
R-11	recovery	annual	S	quarterly	M,J,S,D	CP	158.4	123.4
RMP-1	hydrology	--	--	quarterly	M,J,S,D	--	--	--
RMP-2	hydrology	--	--	quarterly	M,J,S,D	--	--	--

compliance = monitoring wells immediately downgradient of the RCRA landfill at the point of compliance.
effectiveness = monitoring wells located to assess the effectiveness of the hydraulic containment system.
recovery = hydraulic containment pumping well
hydrology = groundwater elevation measurements only.
Quarterly water levels are measured during both pumping and non-pumping conditions.
M = March, J = June, S = September, D = December
CP = chlorinated phenolics, EPA Test Method 8151
As = total arsenic, EPA 7060A
RMP = redistribution trench monitoring points (used to evaluate performance of the redistribution system)

Table 2
Analytical Results Summary - September 2008
Permapost Products, Inc.
Hillsboro, Oregon

Well Number	Pentachlorophenol (EPA Method 8151M) mg/L	Phenol (EPA Method 8151M) mg/L	2-chlorophenol (EPA Method 8151M) mg/L	2,4-dichlorophenol (EPA Method 8151M) mg/L	2,4,6-dichlorophenol (EPA Method 8151M) mg/L	Total Arsenic (EPA Method 7060A) mg/L
<i>Monitoring Wells</i>						
P-8	--	--	--	--	--	--
P-10	--	--	--	--	--	--
P-11b	--	--	--	--	--	--
P-11c	--	--	--	--	--	--
P-12b	0.130	--	--	--	--	--
P-12b (dup)	0.150	--	--	--	--	--
P-12c	0.350	--	--	--	--	0.005 U
P-14a	12.000	--	--	--	--	--
P-14b	15.000	--	--	--	--	--
P-14b (dup)	--	--	--	--	--	--
P-14c	0.0021	--	--	--	--	0.0221
P-15b	0.550	--	--	--	--	--
P-16	0.00050 U	--	--	--	--	--
P-17R	0.00050 U	--	--	--	--	--
P-18b	0.550	--	--	--	--	0.0103
P-18c	0.00096	--	--	--	--	--
P-18c (dup)	0.00120	--	--	--	--	--
P-19a	0.0029	--	--	--	--	--
P-19b	1.200	--	--	--	--	0.0142
P-21	--	--	--	--	--	--
<i>Monitoring Wells</i>						
R-1	0.022	--	--	--	--	--
R-2	0.00052	--	--	--	--	0.0289
R-3	2.000	--	--	--	--	0.161
R-4	6.900	--	--	--	--	0.005 U
R-5	0.240	--	--	--	--	--
R-7	3.300	--	--	--	--	0.133
R-8	0.870	--	--	--	--	--
R-9	2.000	--	--	--	--	0.0241
R-10	0.025	--	--	--	--	--
R-11	0.560	--	--	--	--	--

-- = not tested during this sampling event.

U = The compound was not detected at or above the Method Reporting Limit/Method Detection Limit

(dup) = duplicate sample

Table 3
Groundwater Treatment System - 2008 Analytical Results Summary
Permapost Products, Inc.
Hillsboro, Oregon

Sampling Date	Influent Pentachlorophenol mg/L	Influent Total Arsenic mg/L	Effluent Pentachlorophenol mg/L	Effluent Phenol mg/L	Effluent 2-chlorophenol mg/L	Effluent 2,4-dichlorophenol mg/L	Effluent 2,4,6-trichlorophenol mg/L	Effluent Total Arsenic mg/L
29-Jan-08	2.400	0.0786	0.0005 U	--	--	--	--	0.0651
20-Feb-08	Carbon Change out							
20-Mar-08	2.700	0.0799	0.0005 U	--	--	--	--	0.0647
29-Apr-08	2.200	0.0506	0.0005 U	--	--	--	--	0.0459
24-Jun-08	1.200	0.0418	0.0005 U	--	--	--	--	0.041
31-Jul-08	1.400	0.0361	0.0005 U	--	--	--	--	0.0368
22-Sep-08*	1.400	0.0412	0.0005 U	0.00297 U	0.00297 U	0.00297 U	0.00297 U	0.0392
6-Nov-08	0.890	0.0427	0.0005 U	0.00490 U	0.00490 U	0.00490 U	0.00490 U	0.0385

-- = not tested during this sampling event.

U = The compound was not detected at or above the Method Reporting Limit/Method Detection Limit

Pentachlorophenol measured using EPA method 8151. Other chlorophenolics measured using EPA Method 8270.

Arsenic measured using EPA Method 7060A.

" * " = Pentachlorophenol sampled on September 22, 2008. Other chlorophenolics sampled on October 10, 2008.

Table 4
Groundwater Treatment System - R-6 Oil Recovery
Permapost Products, Inc.
Hillsboro, Oregon

Date	Oil Recovered (gallons)	Total Oil Recovered (gallons)
26-Sep-01	55	55
21-Feb-02	55	110
7-May-02	55	165
23-Sep-02	55	220
30-Apr-03	55	275
23-Oct-03	55	330
21-Jan-04	55	385
18-Mar-04	55	440
14-May-04	45	485
29-Jul-04	45	530
22-Mar-06	55	585
3-Oct-06	55	640
15-Jun-07	55	695
15-Nov-07	55	750
26-Mar-08	55	805
31-Jul-08	55	860

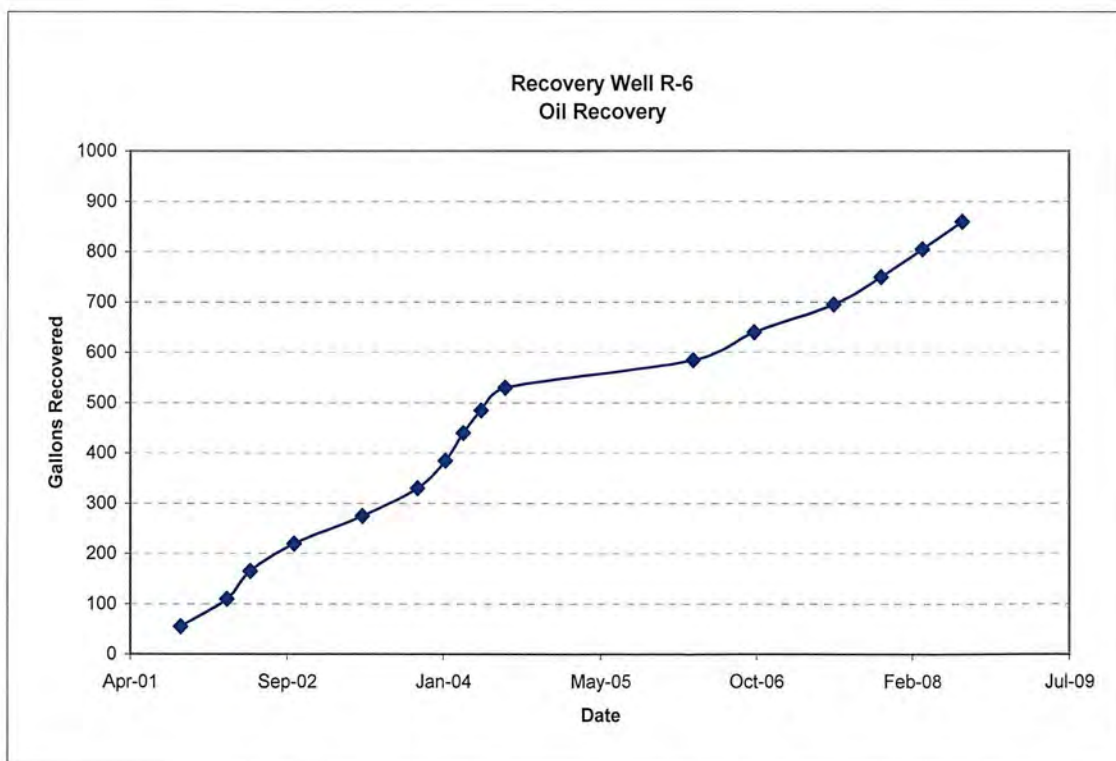
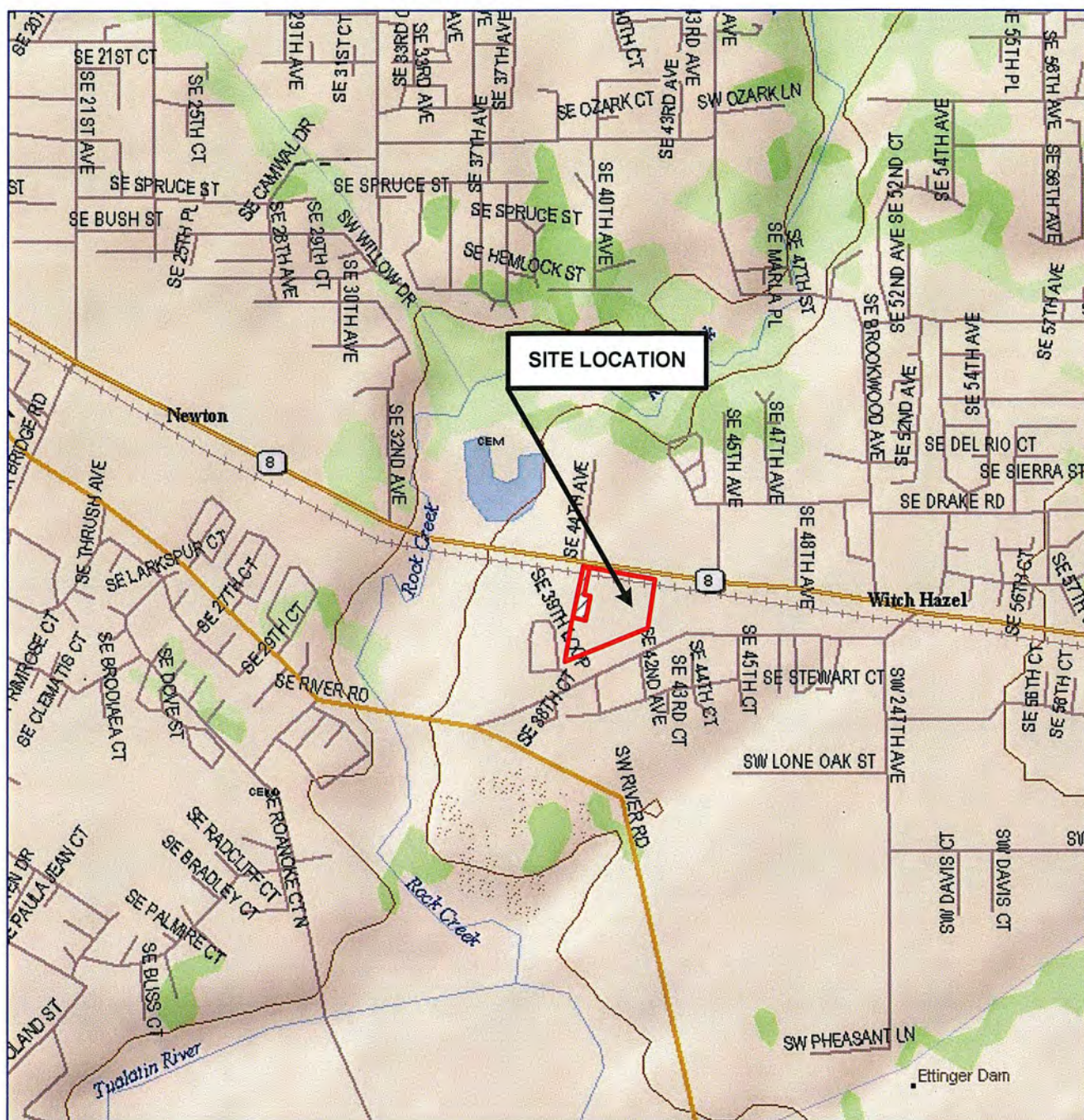


Table 5
Groundwater Elevations - 3rd and 4th Quarter 2008
Permapost Products, Inc.
Hillsboro, Oregon

Well I.D.	Reference Elevation	22-Sep-2008 System Off		13-Nov-2008 System On		20-Nov-2008 System Off	
		D.T.W.	W.T.E.	D.T.W.	W.T.E.	D.T.W.	W.T.E.
P-8	168.28	11.30	156.98	8.04	160.24	9.89	158.39
P-9	162.05	10.10	151.95	10.05	152.00	9.62	152.43
P-10	170.5	14.97	155.53	14.37	156.13	13.90	156.60
P-11b	165.06	13.83	151.23	11.78	153.28	10.04	155.02
P-11c	165.34	12.75	152.59	13.11	152.23	11.50	153.84
P-12a	165.28	14.85	150.43	10.53	154.75	13.88	151.40
P-12b	164.55	14.00	150.55	14.85	149.70	12.96	151.59
P-12c	164.74	13.63	151.11	14.46	150.28	12.71	152.03
P-14a	164.94	12.01	152.93	13.80	151.14	9.72	155.22
P-14b	165.43	11.87	153.56	16.23	149.20	10.27	155.16
P-14c	165.6	13.33	152.27	14.10	151.50	12.44	153.16
P-15a	164.23	12.18	152.05	12.80	151.43	12.10	152.13
P-15b	164.74	14.49	150.25	15.03	149.71	13.93	150.81
P-16	146.68	10.12	136.56	8.15	138.53	8.97	137.71
P-17R	157.26	17.18	140.08	15.82	141.44	16.20	141.06
P-18a	153.16	8.31	144.85	8.45	144.71	8.13	145.03
P-18b	152.88	9.25	143.63	8.53	144.35	8.79	144.09
P-18c	152.89	6.72	146.17	6.85	146.04	6.83	146.06
P-19a	162.81	13.65	149.16	13.57	149.24	13.27	149.54
P-19b	163.31	14.45	148.86	14.90	148.41	14.00	149.31
P-21	167.07	12.98	154.09	12.92	154.15	11.02	156.05
R-1	170.13	14.83	155.30	32.51	137.62	13.92	156.21
R-2	164.88	10.90	153.98	26.88	138.00	8.35	156.53
R-3	165.18	9.77	155.41	24.93	140.25	9.93	155.25
R-4	167.6						
R-5	167.65	13.85	153.80	29.92	137.73	11.24	156.41
R-7	165.15	13.20	151.95	25.81	139.34	9.87	155.28
R-8	167.06	13.52	153.54	24.11	142.95	12.41	154.65
R-9	164.78	14.75	150.03	24.23	140.55	13.76	151.02
R-10	164.00	14.80	149.20	31.68	132.32	14.67	149.33
R-11	163.21	21.10	142.11	33.61	129.60	13.73	149.48
RMP-1	170.86	6.99	163.87	3.72	167.14	10.72	160.14
RMP-2	168.03	3.74	164.29	2.21	165.82	8.11	159.92

D.T.W = Depth to groundwater
W.T.E. = Water table elevation, feet above mean sea level
System = groundwater extraction system

FIGURES



REFERENCE

DeLorme 3-D Topo Quads from:
USGS 7.5 Minute Topographic Map
Hillsboro, Oregon

SCALE: 1 : 24,000

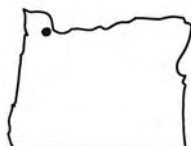


FIGURE 1

SITE VICINITY MAP

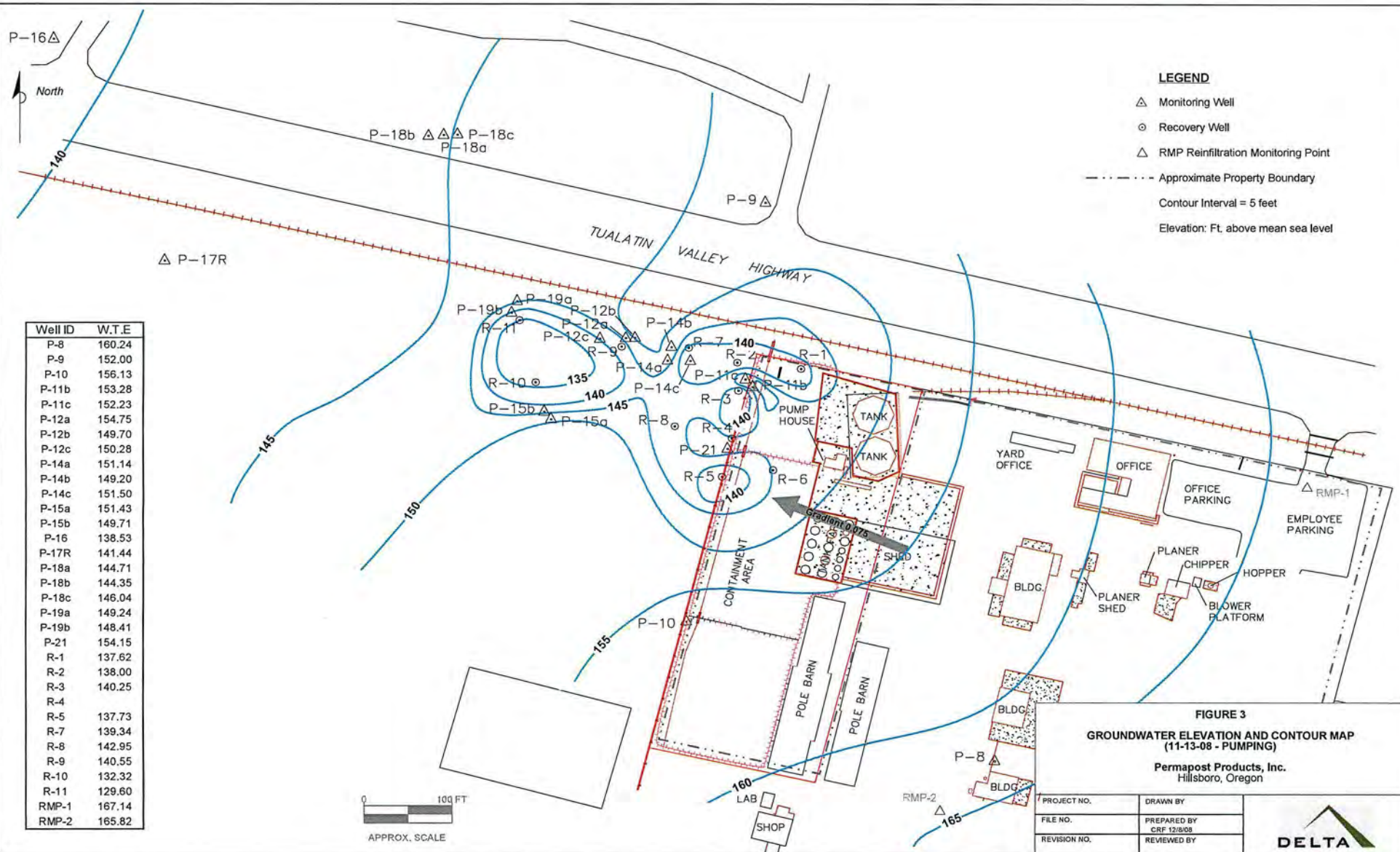
PERMAPOST PRODUCTS, INC.
HILLSBORO, OREGON

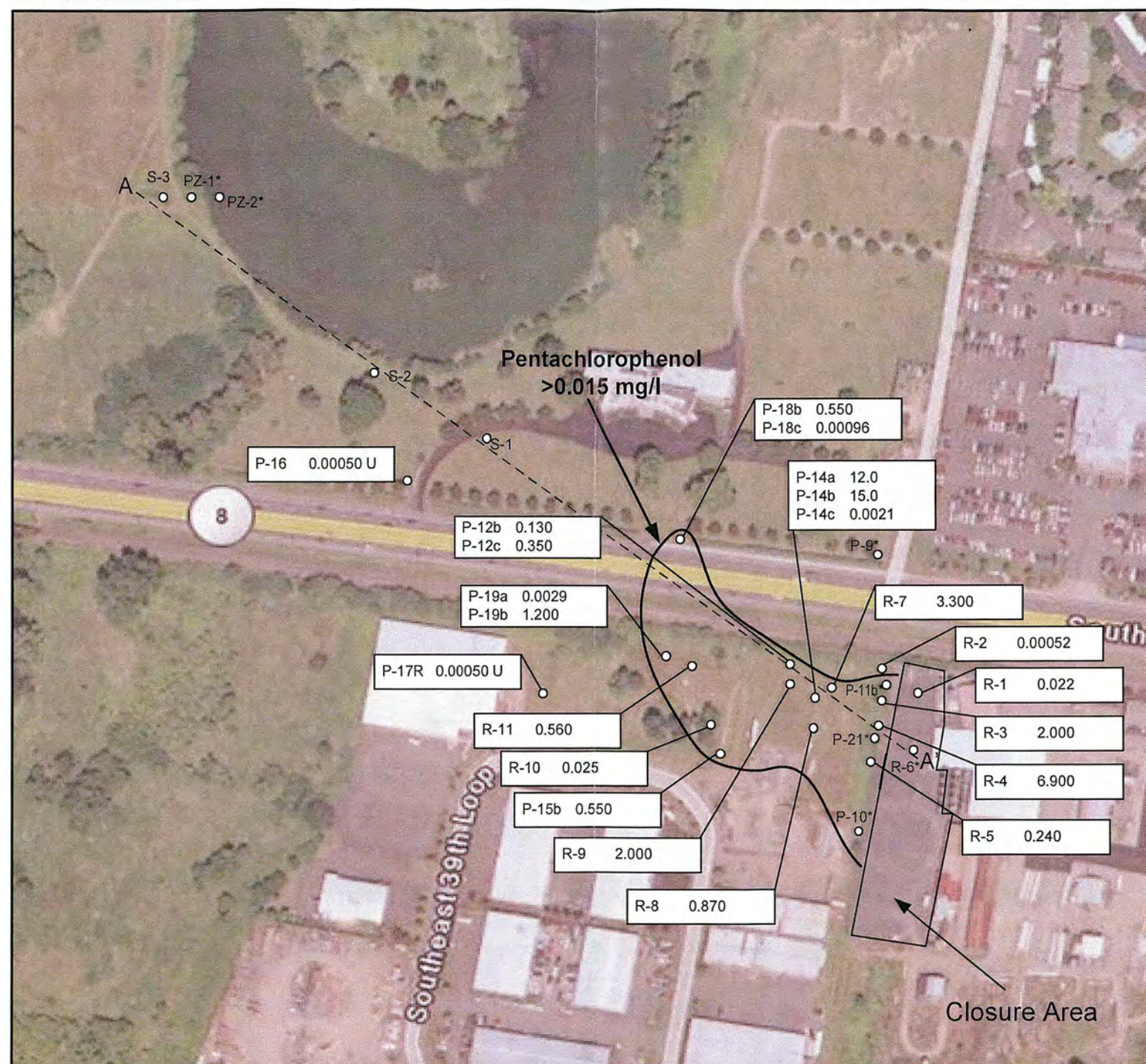
PROJECT NO. PT06	DRAWN BY
FILE NO. Permapost RI	PREPARED BY CRF 10/27/08
REVISION NO.	REVIEWED BY



DELTA







Notes:

○ Groundwater monitoring well location

* Sampled annually in March

mg/l milligrams per liter

U Not detected above laboratory method reporting limits/method detection limits

0 ft 250 ft 500 ft

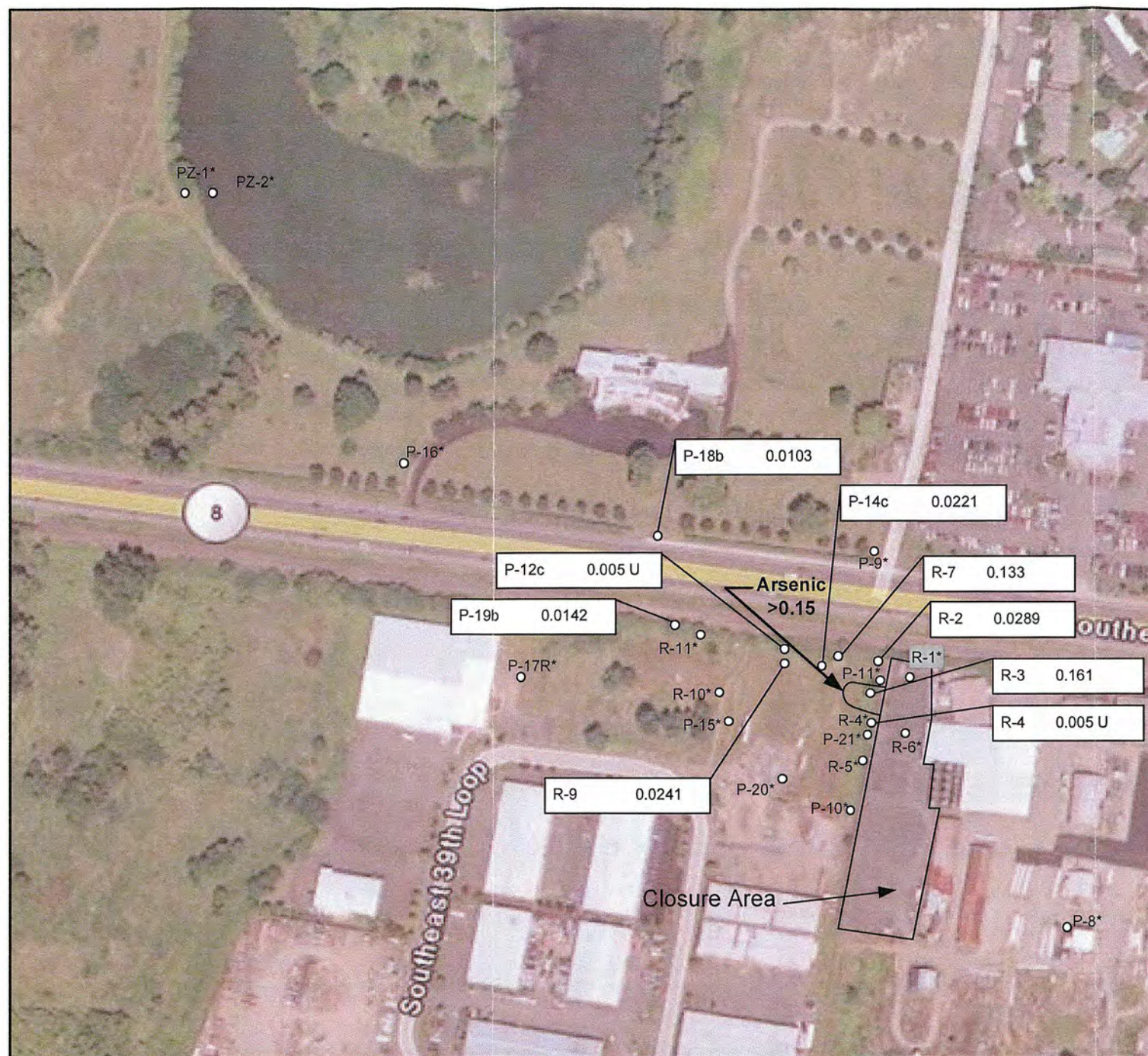
FIGURE 4

PENTACHLOROPHENOL CONCENTRATIONS EXCEEDING
PROTECTION STANDARD (0.015 mg/l) - SEPTEMBER 2008

Permapost Products, Inc.
Hillsboro, Oregon

PROJECT NO.	DRAWN BY
FILE NO.	PREPARED BY CRF 12/9/08
REVISION NO. 0	REVIEWED BY





Notes:

- Groundwater monitoring well location
- * No analytical data
- mg/l milligrams per liter
- U Not detected above laboratory method reporting limits/method detection limits



FIGURE 5

ARSENIC CONCENTRATIONS EXCEEDING PROTECTION STANDARD (0.15 mg/l) - SEPTEMBER 2008

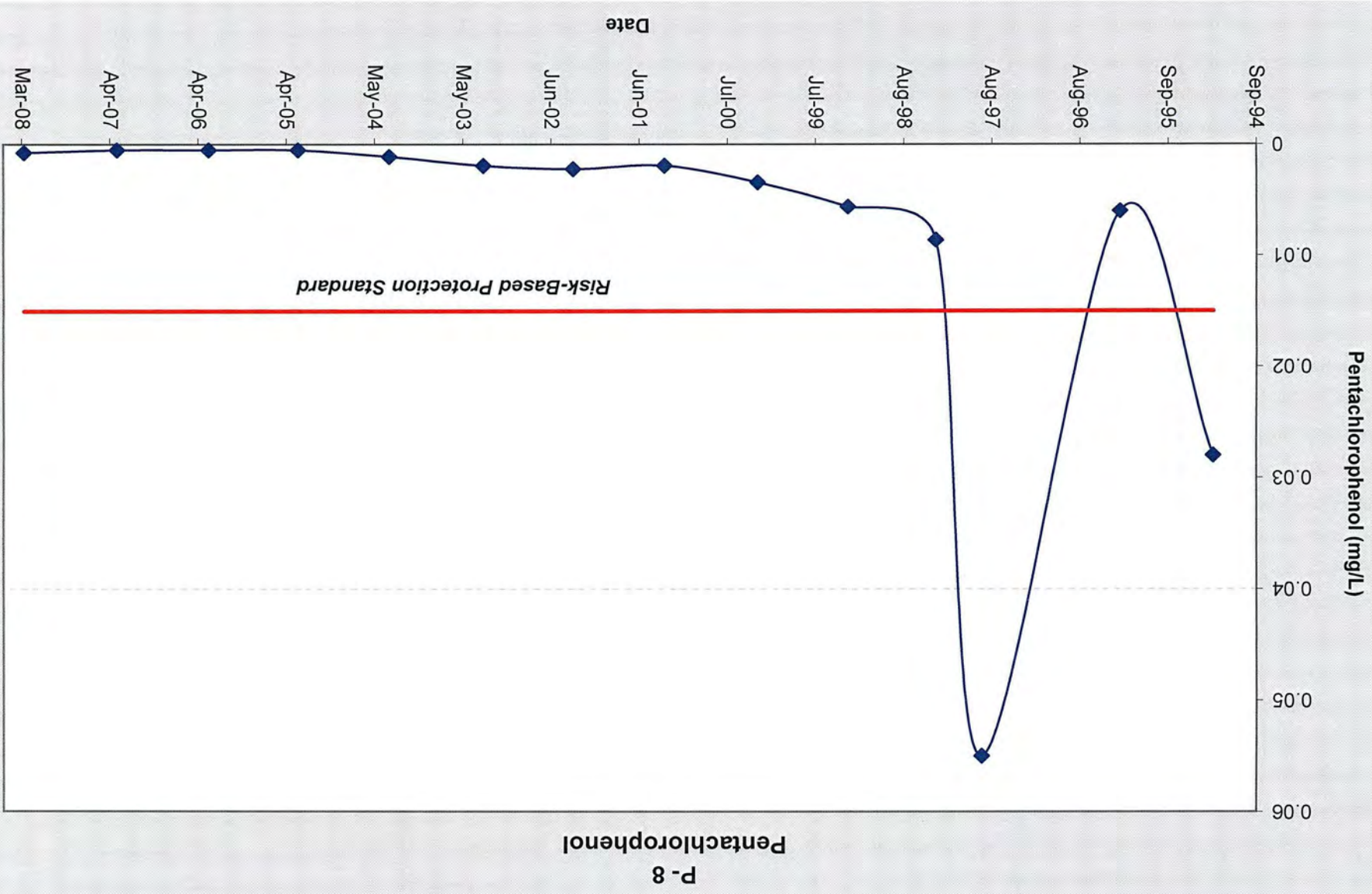
Permapost Products, Inc.
Hillsboro, Oregon

PROJECT NO.	DRAWN BY
FILE NO.	PREPARED BY CRF 12/9/08
REVISION NO. 0	REVIEWED BY

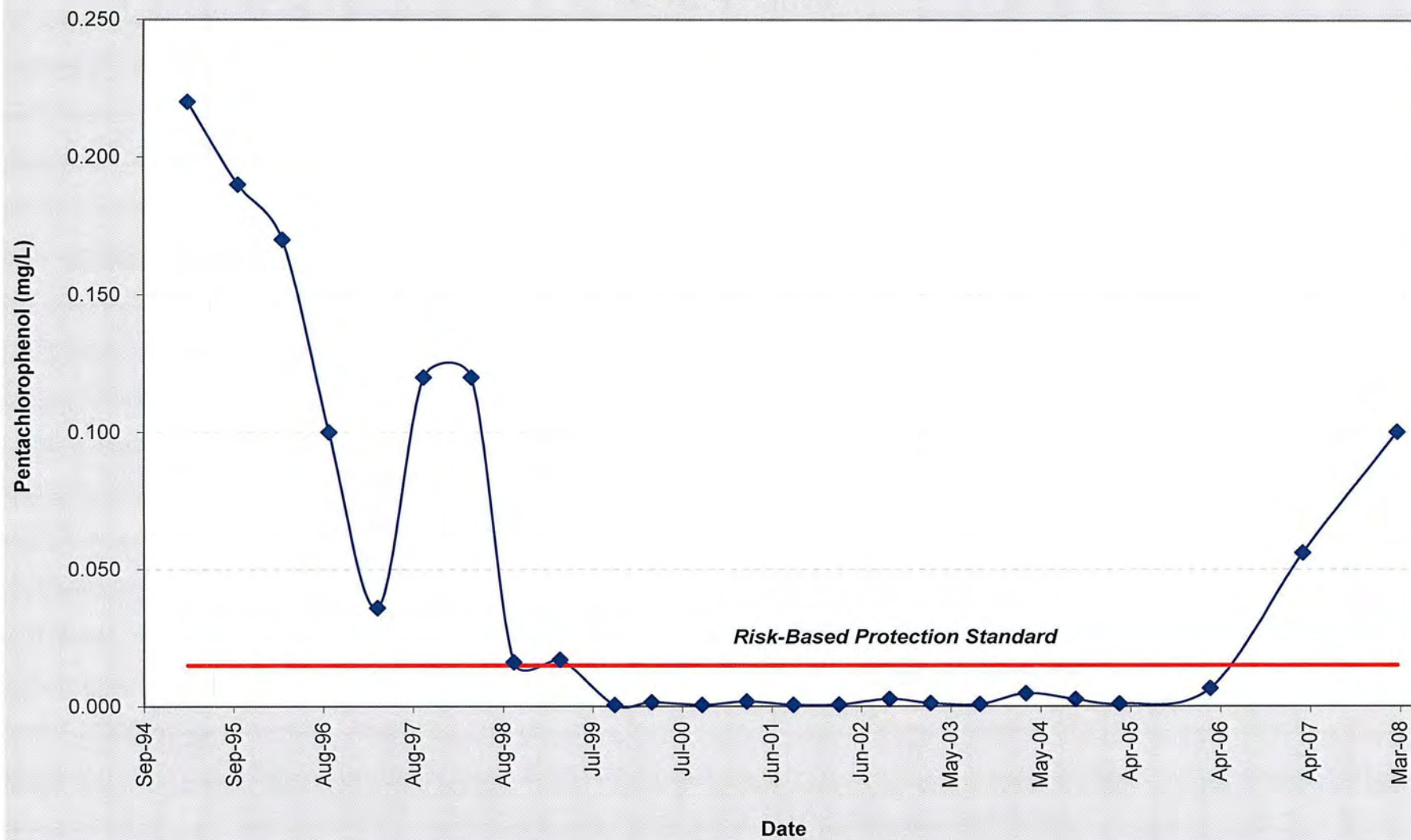


Appendix A

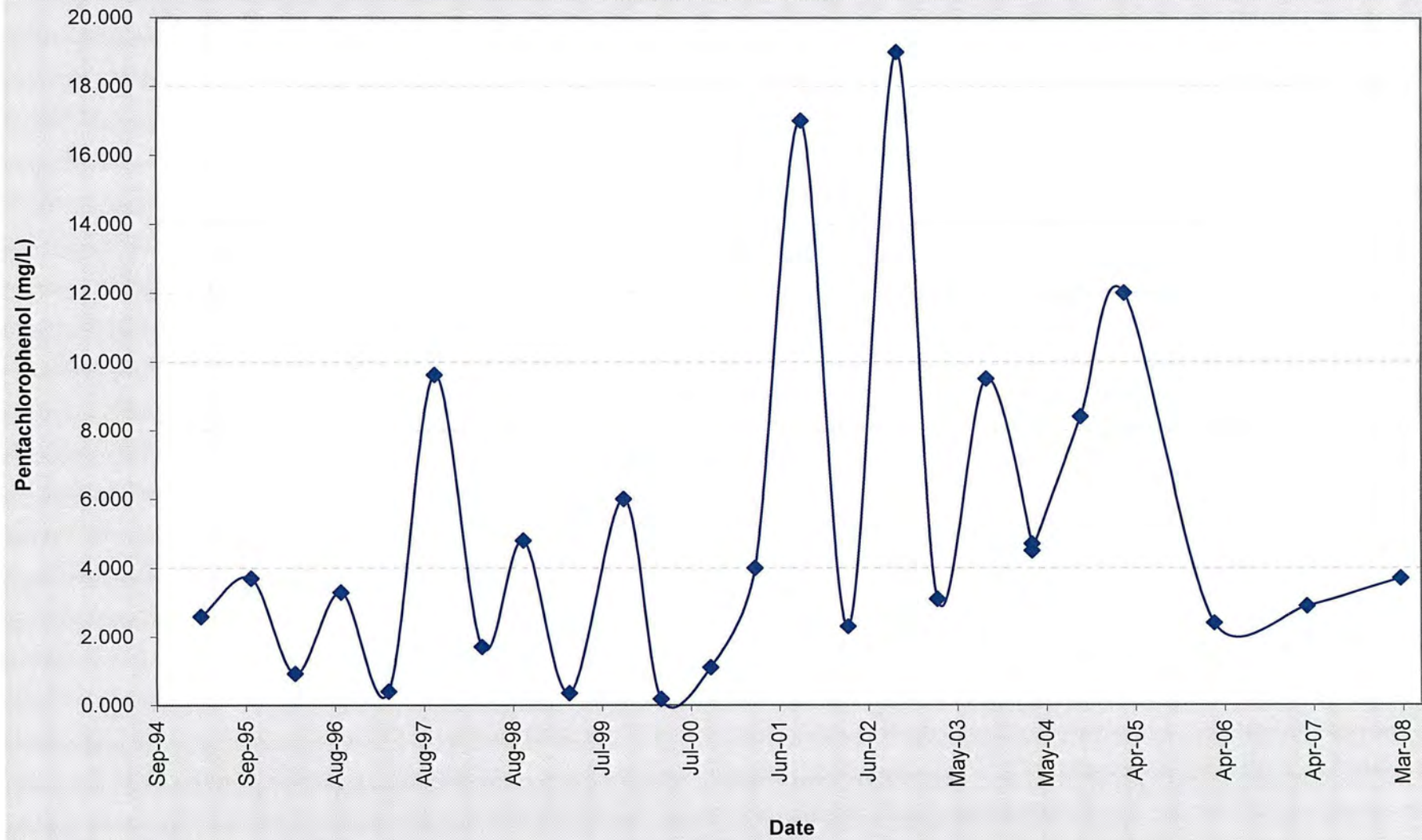
Semi-annual Groundwater Sampling Results Time Series Plots- PCP



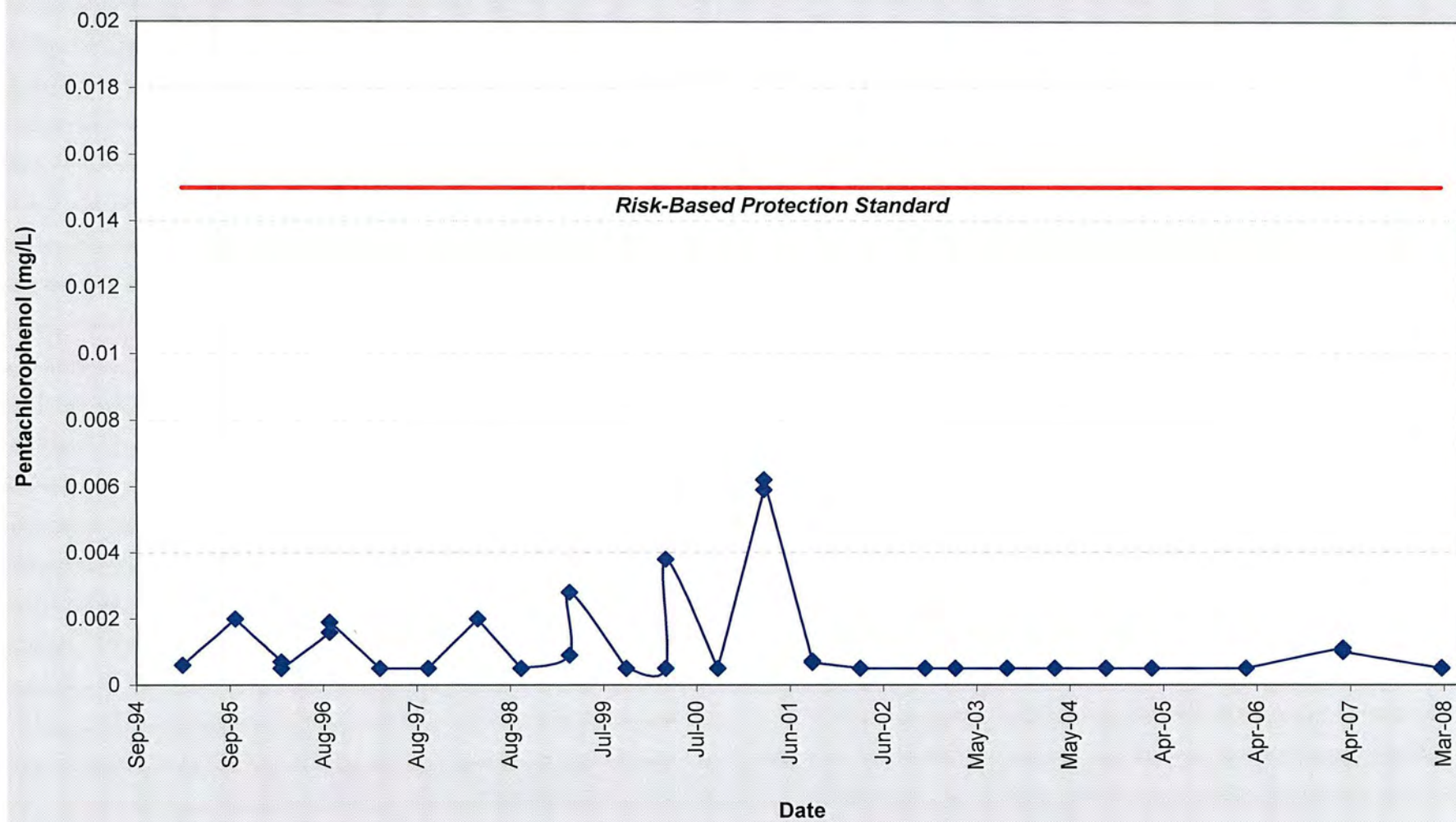
**P-10
Pentachlorophenol**



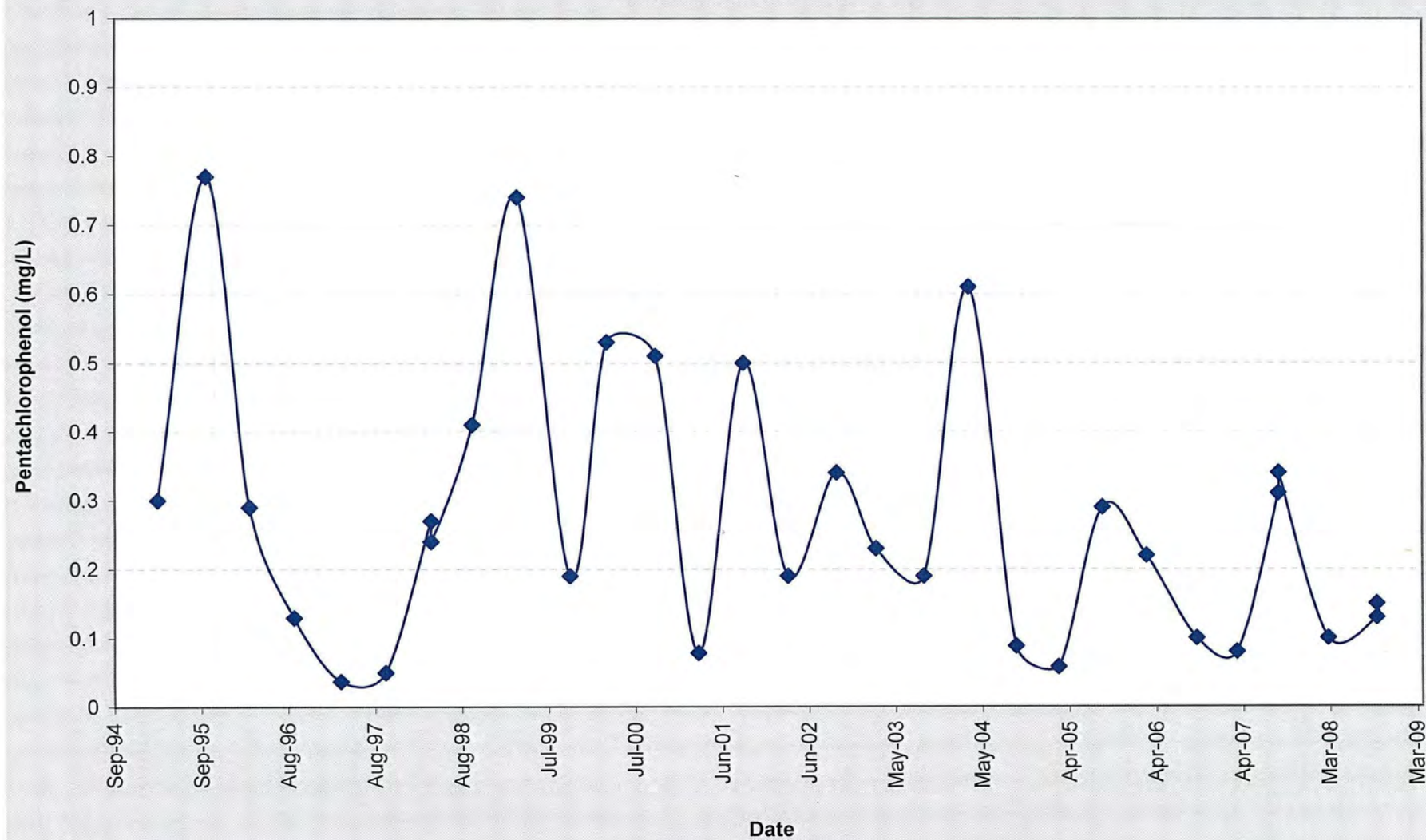
P- 11B
Pentachlorophenol



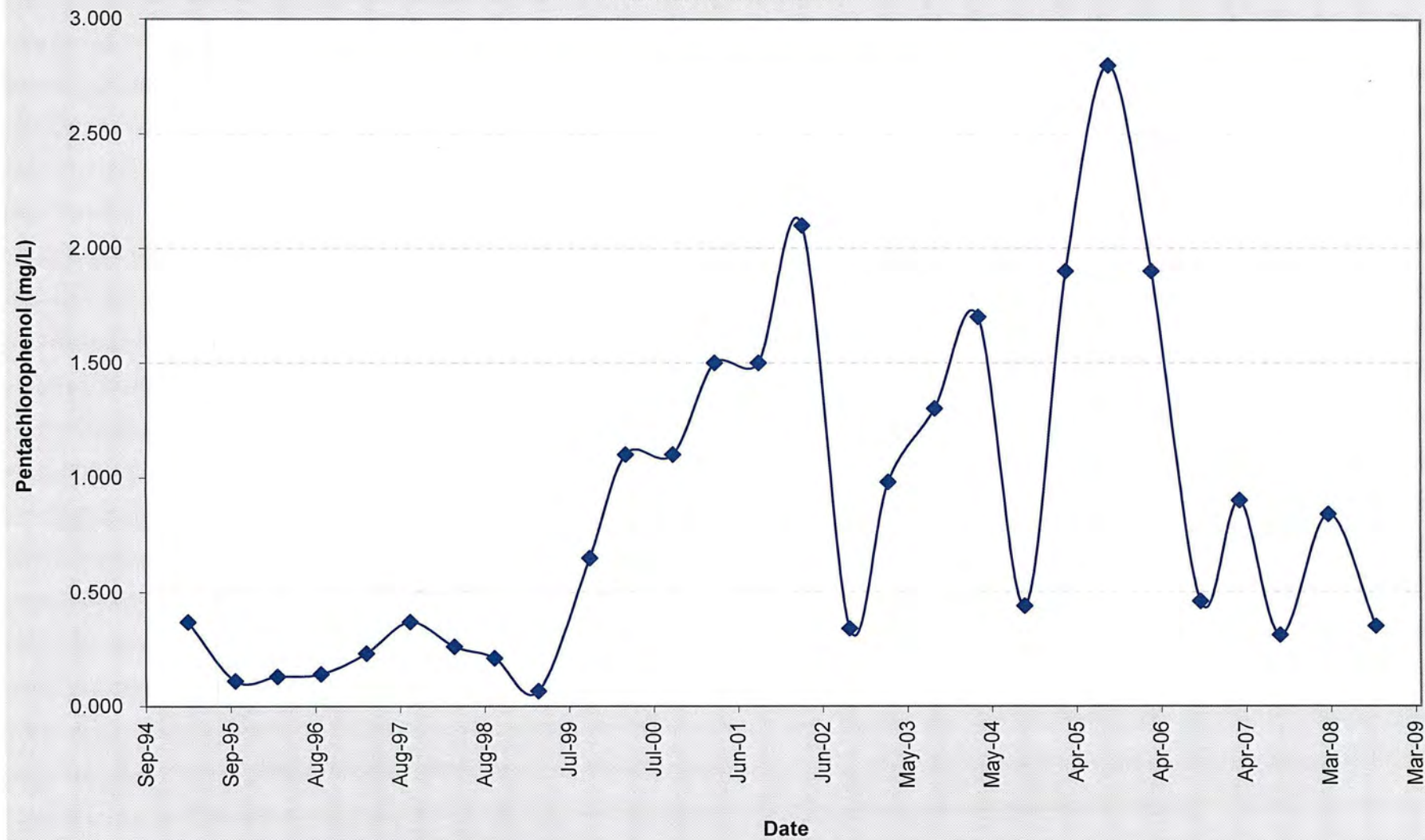
P- 11c
Pentachlorophenol



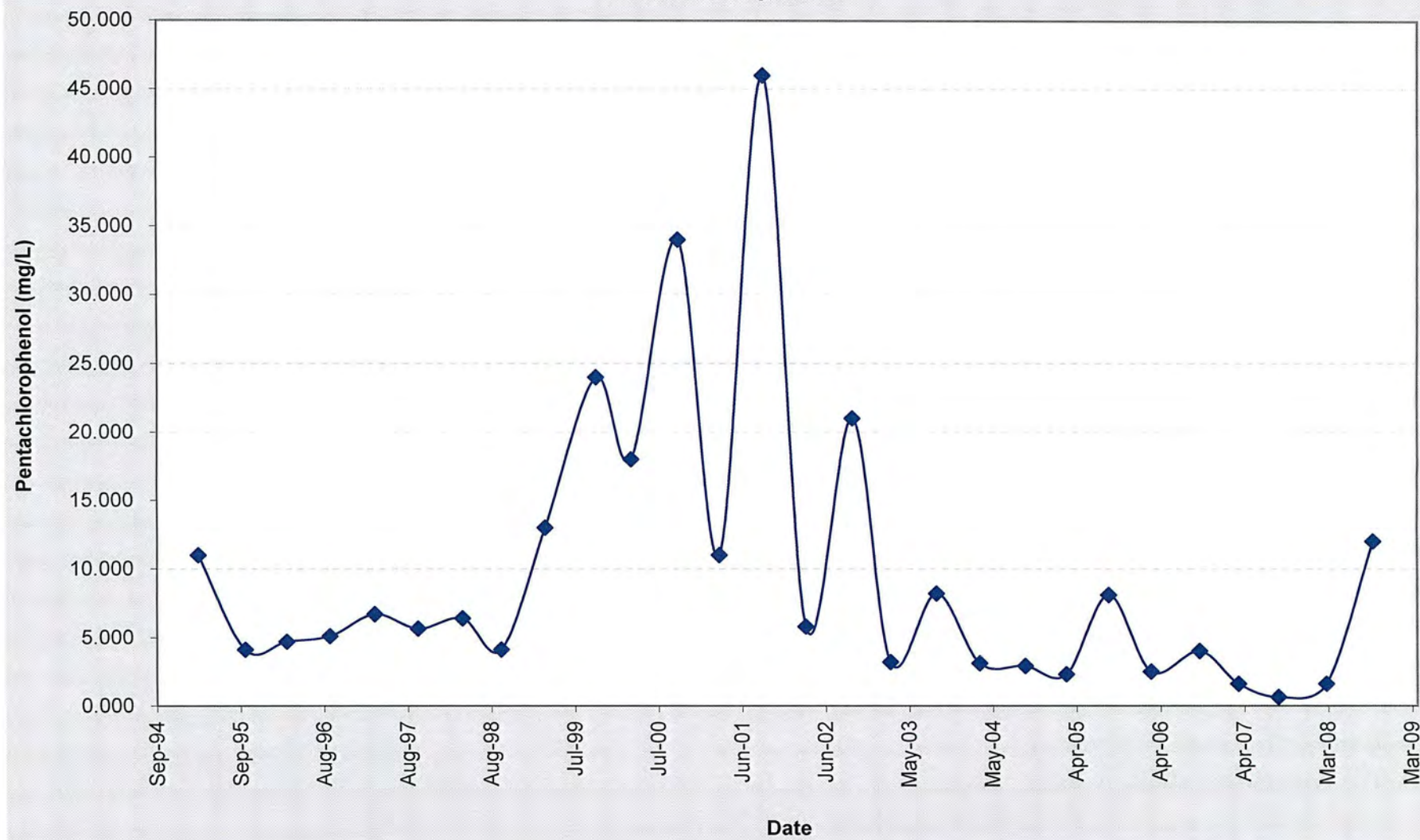
P- 12b
Pentachlorophenol



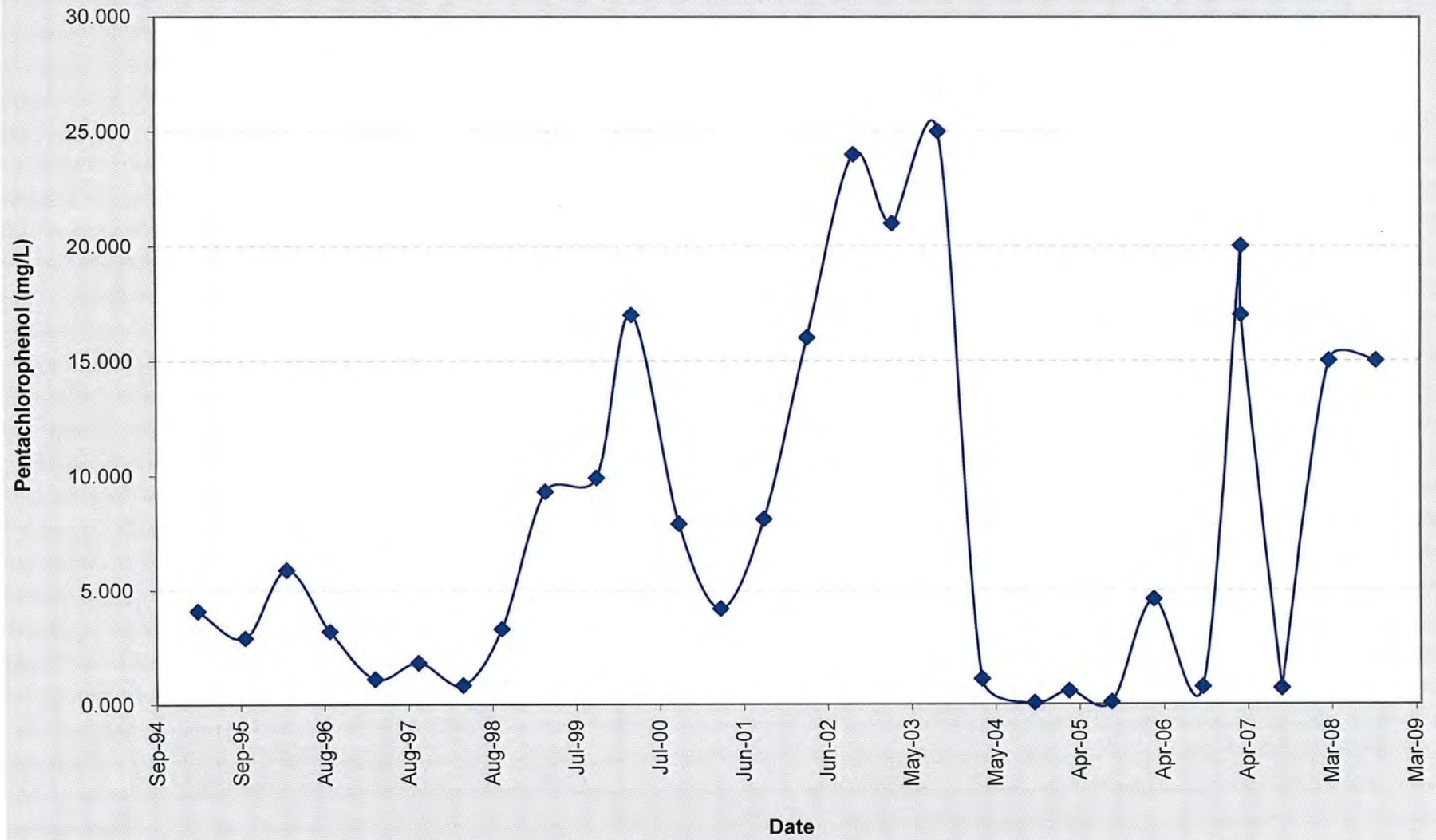
P- 12c
Pentachlorophenol



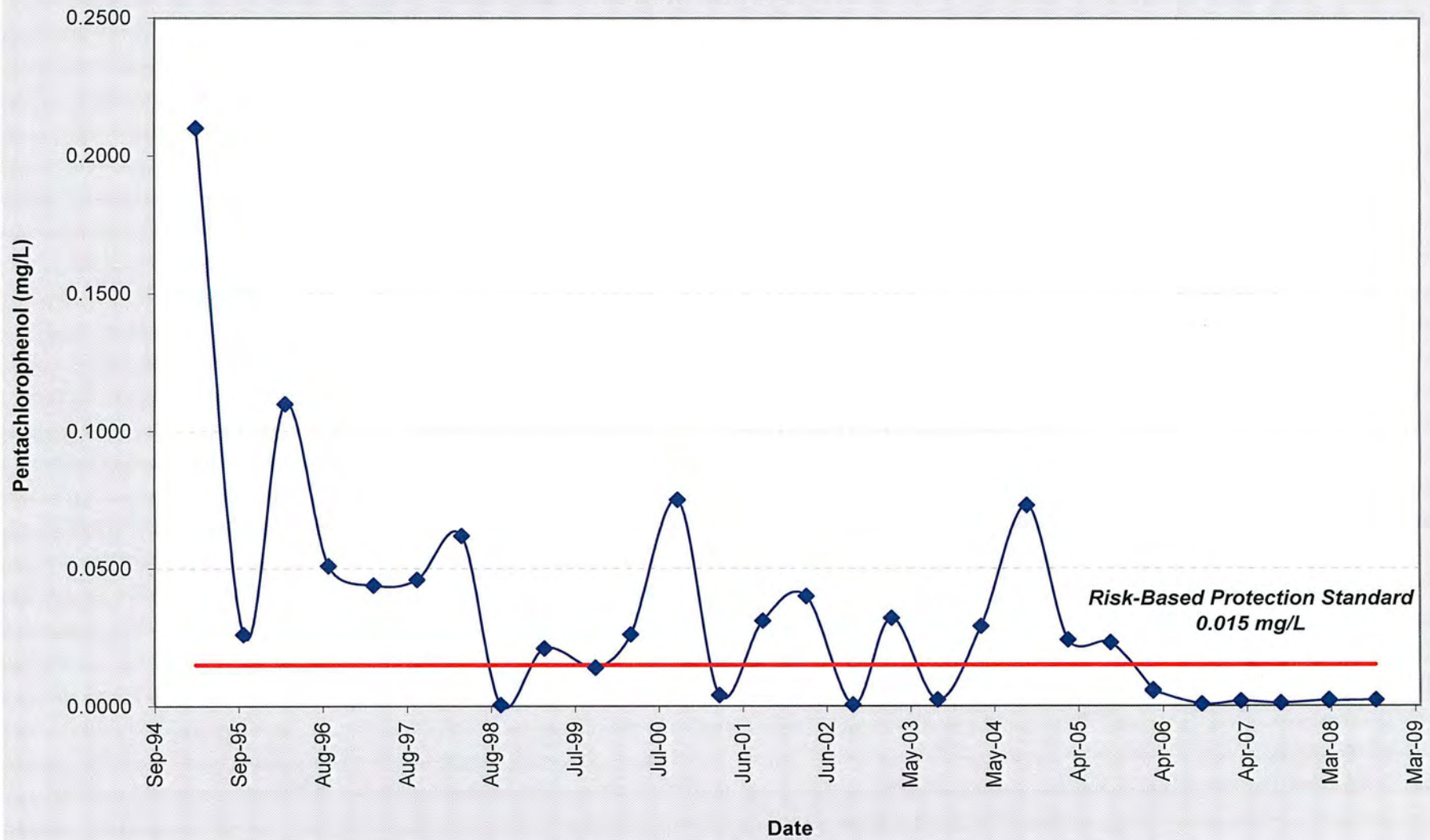
P- 14a
Pentachlorophenol



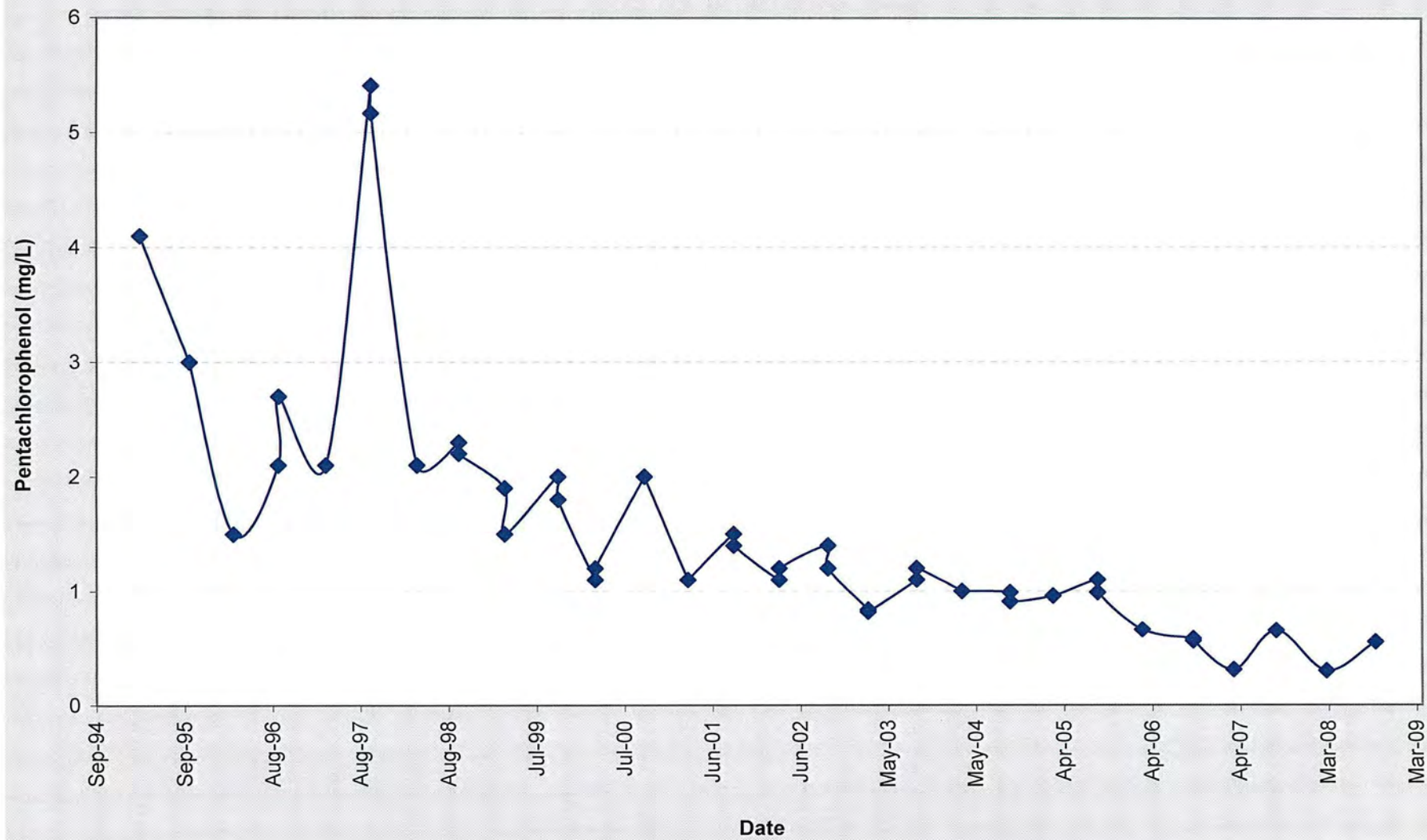
P- 14b
Pentachlorophenol



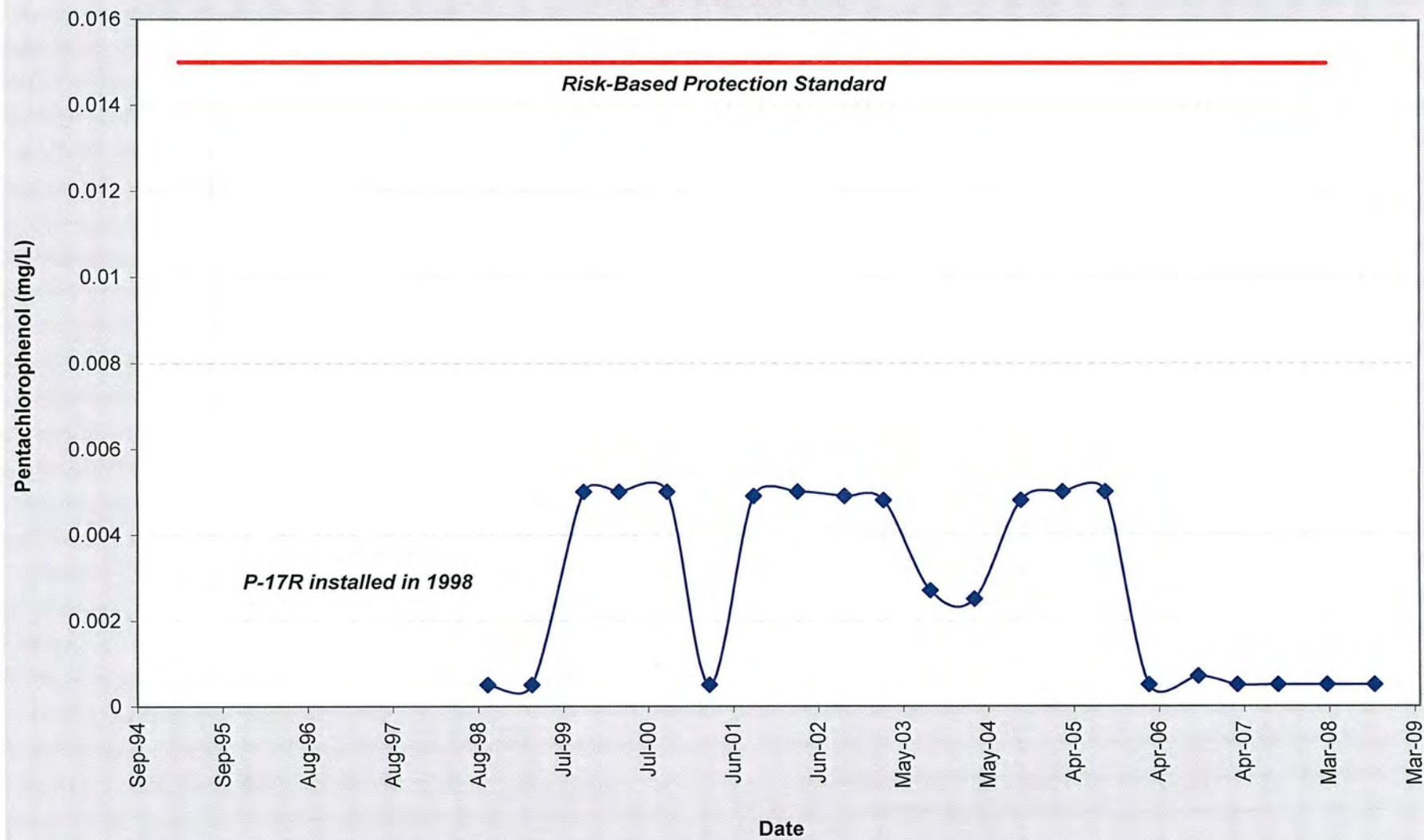
P- 14c
Pentachlorophenol



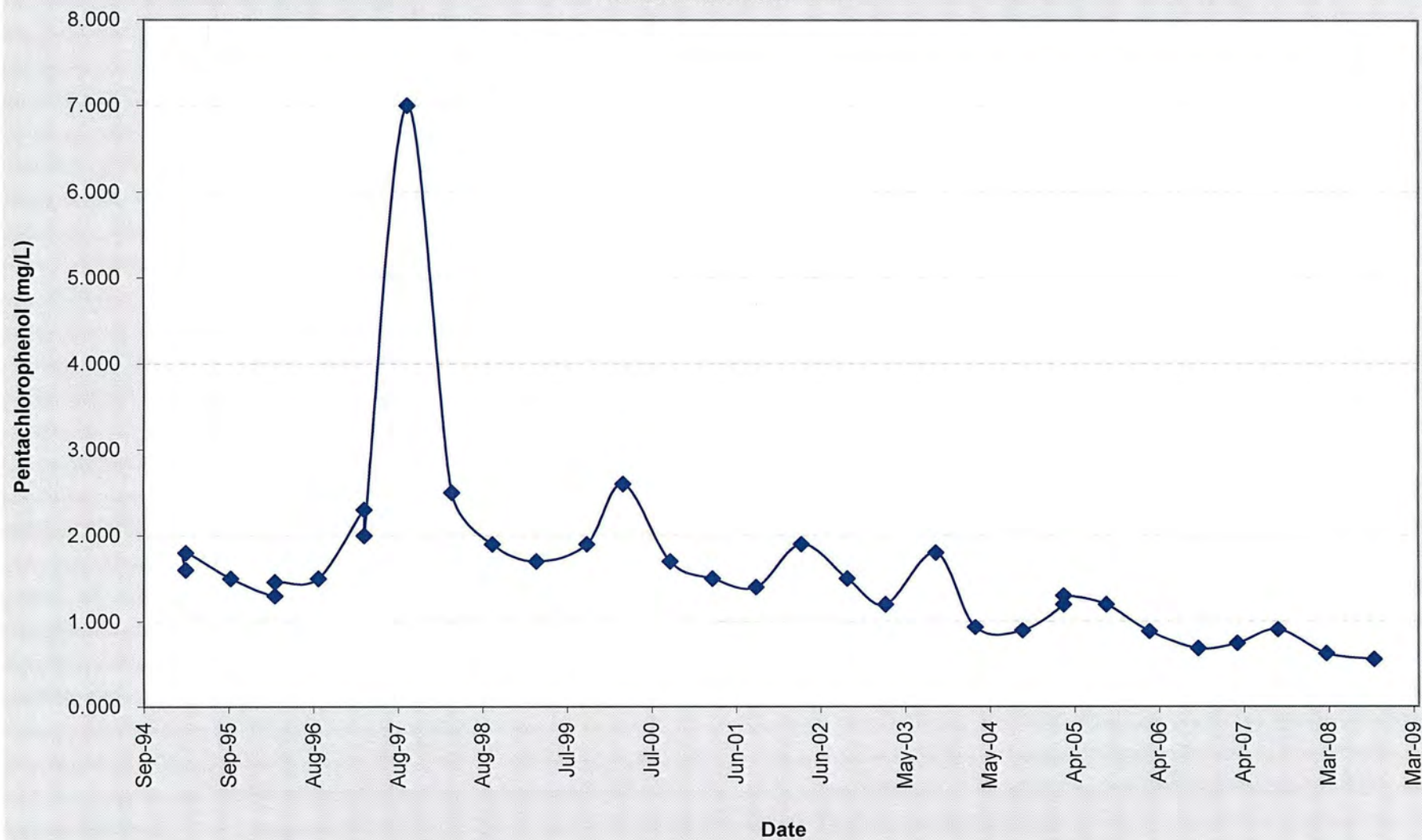
P- 15b
Pentachlorophenol



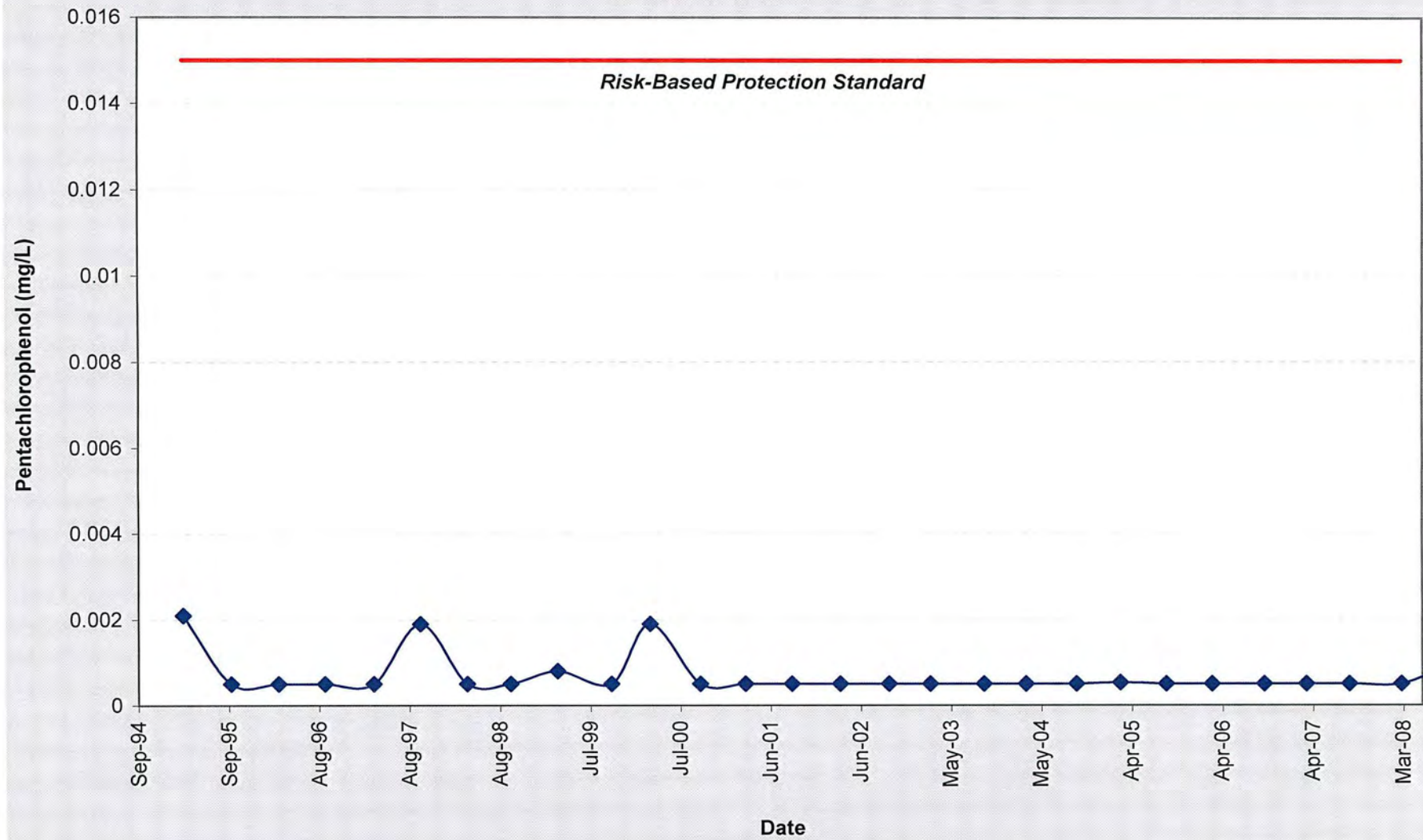
P- 17R
Pentachlorophenol



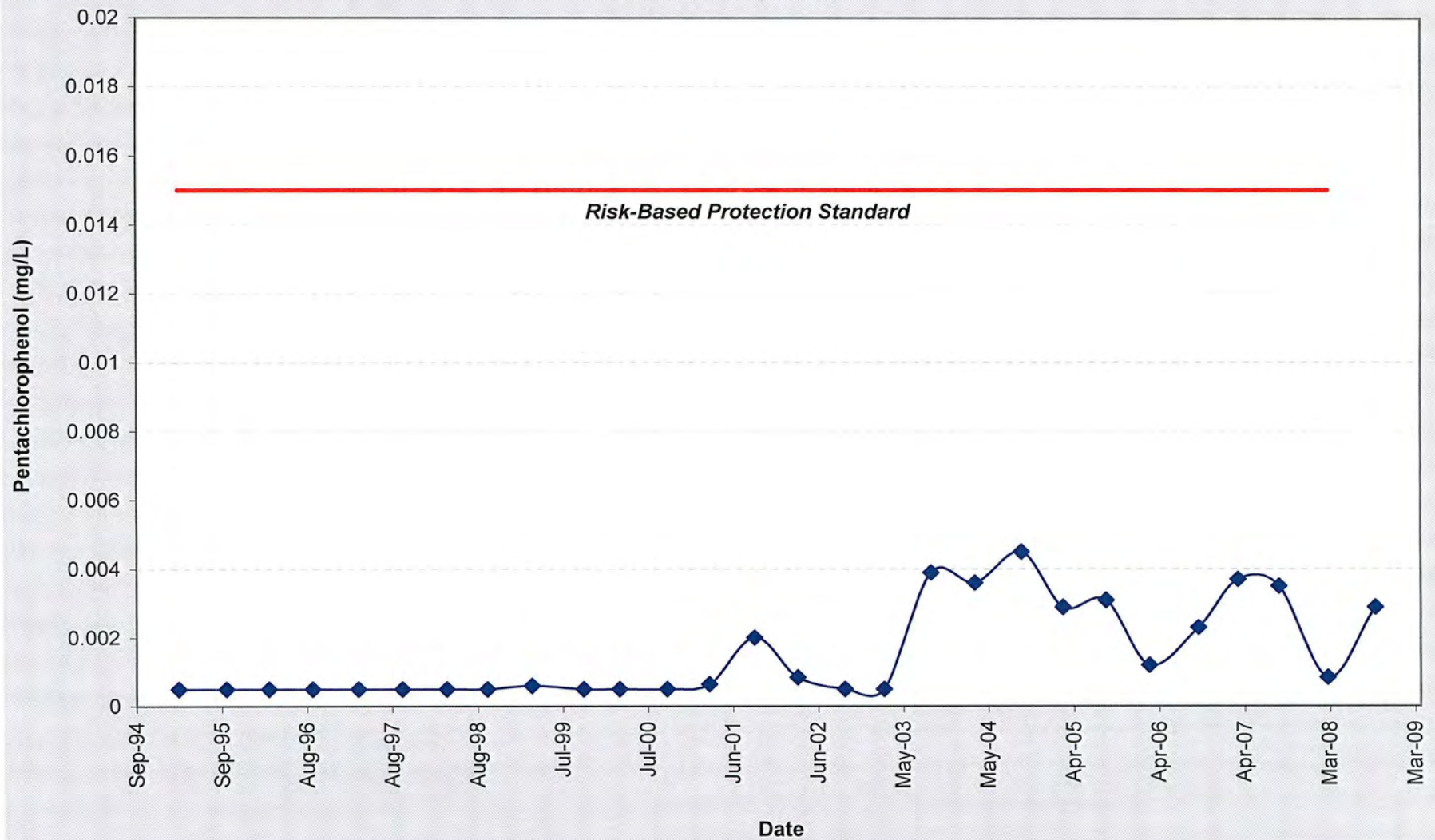
P- 18b
Pentachlorophenol



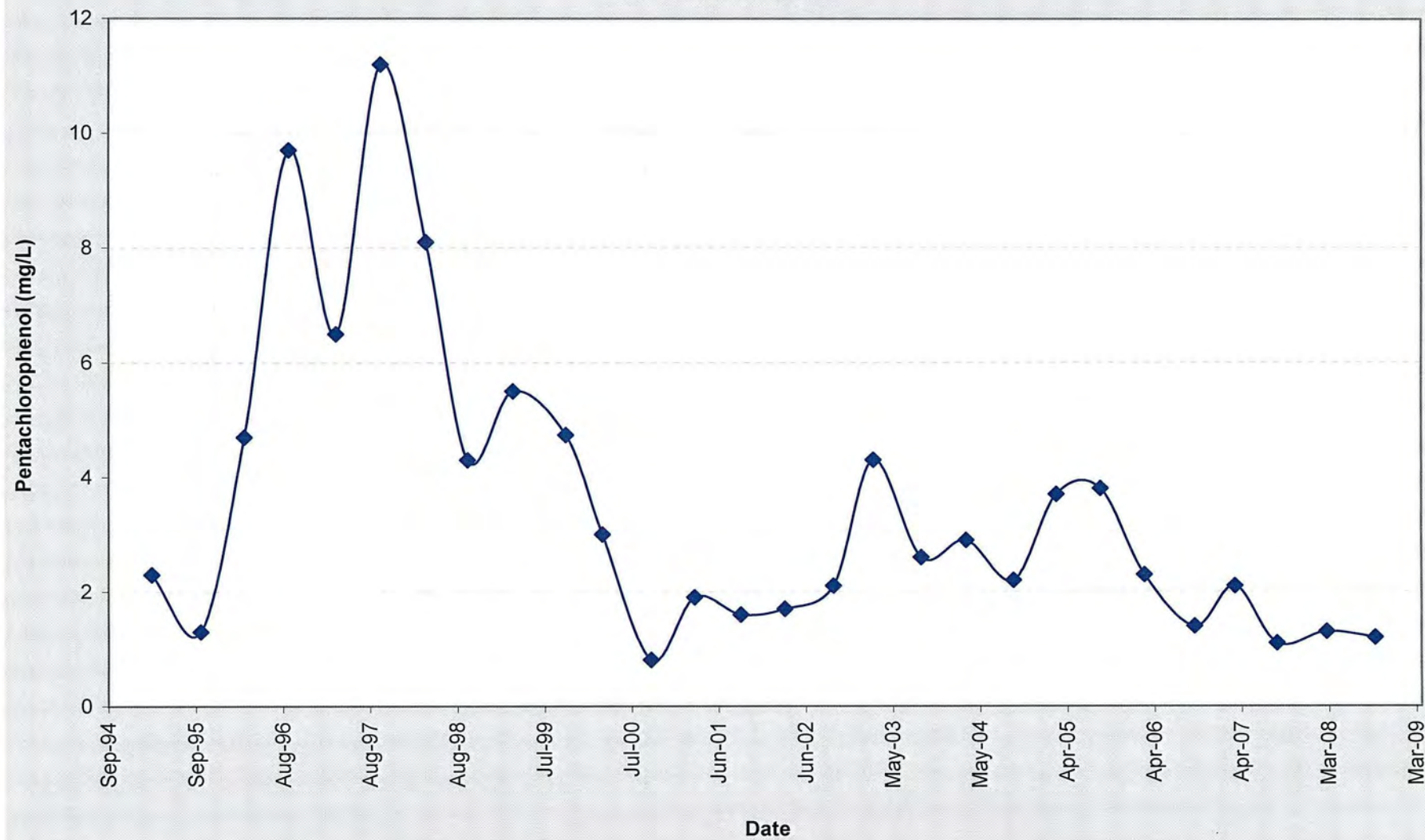
P- 18c
Pentachlorophenol



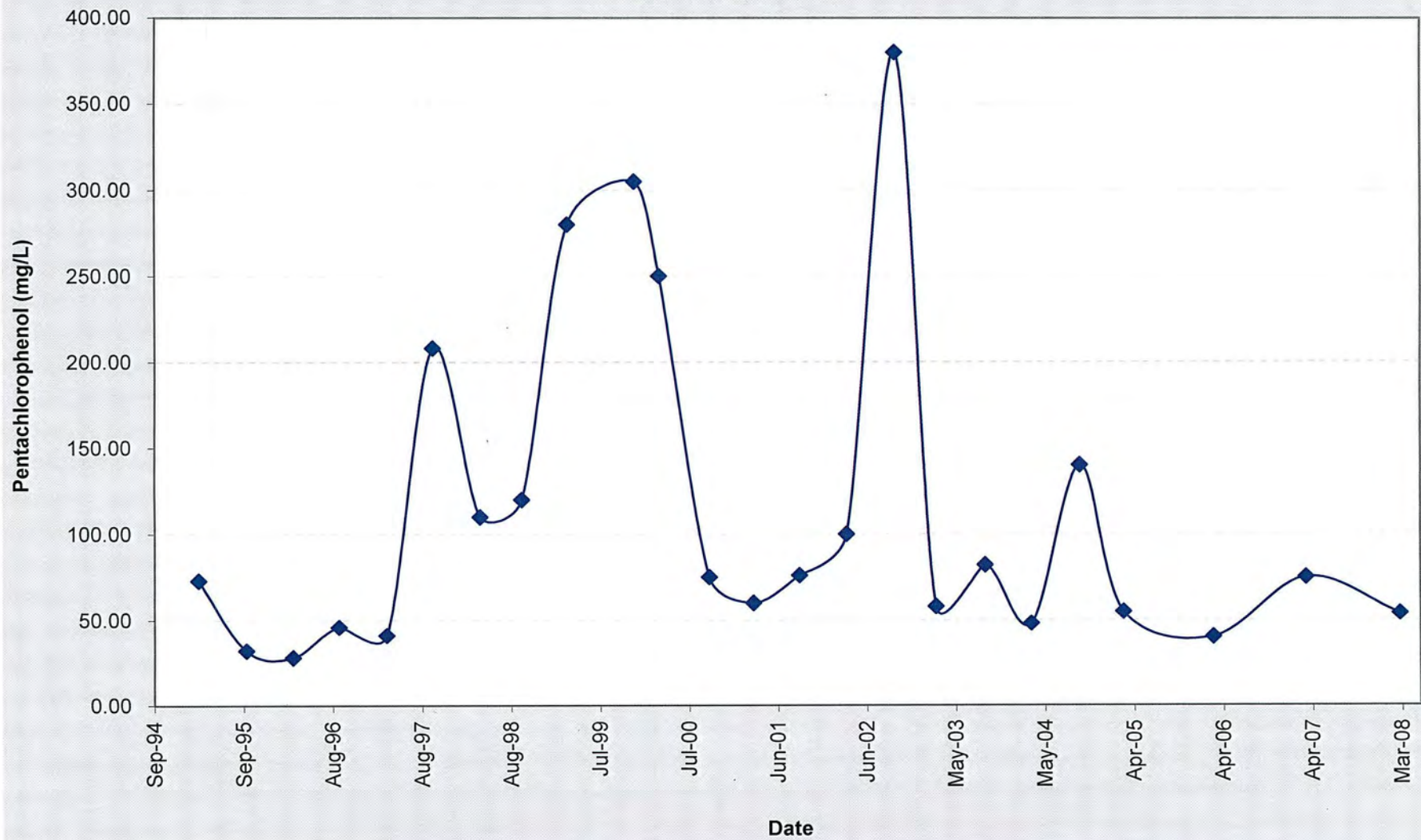
P- 19a
Pentachlorophenol



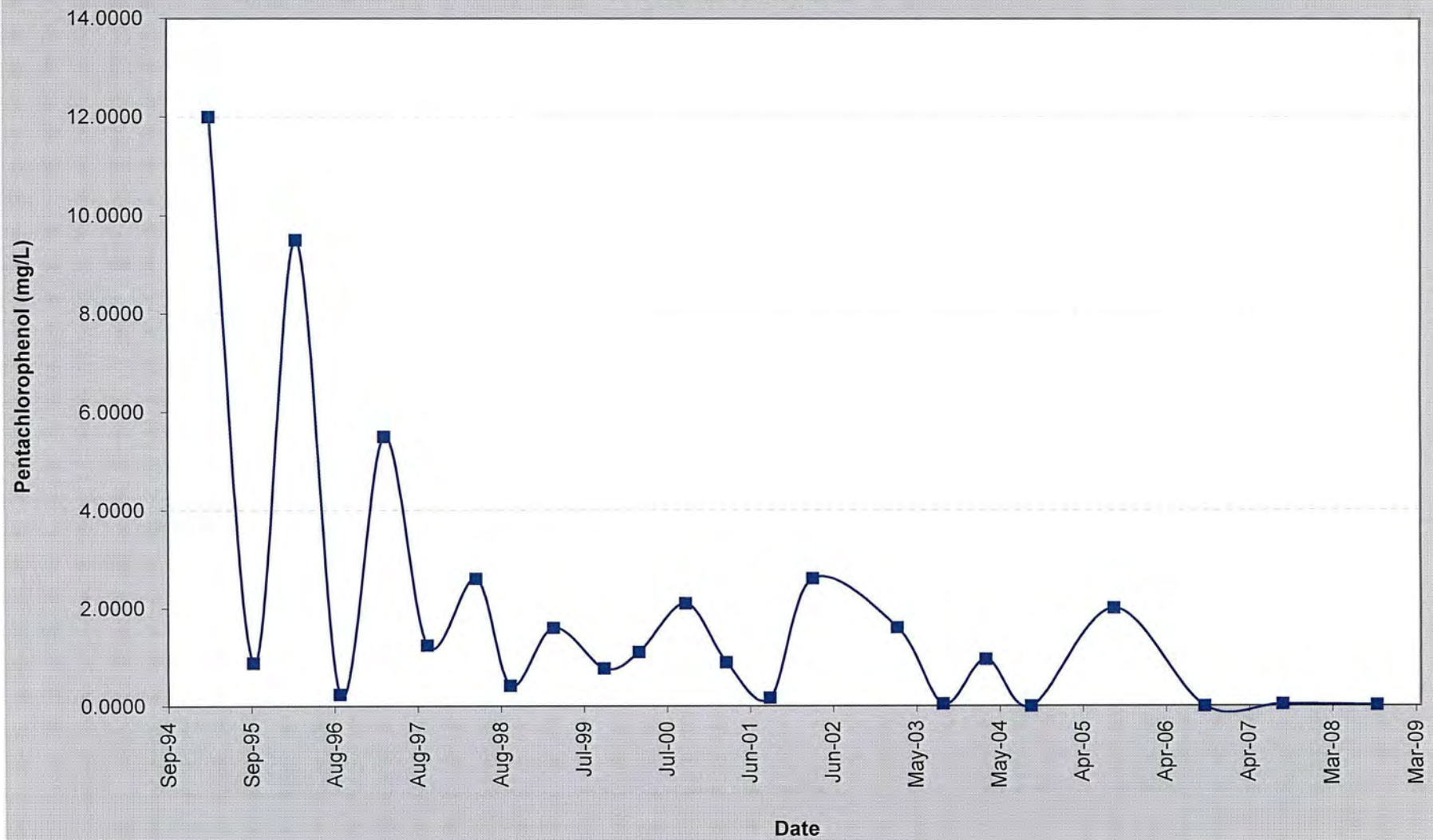
P- 19b
Pentachlorophenol



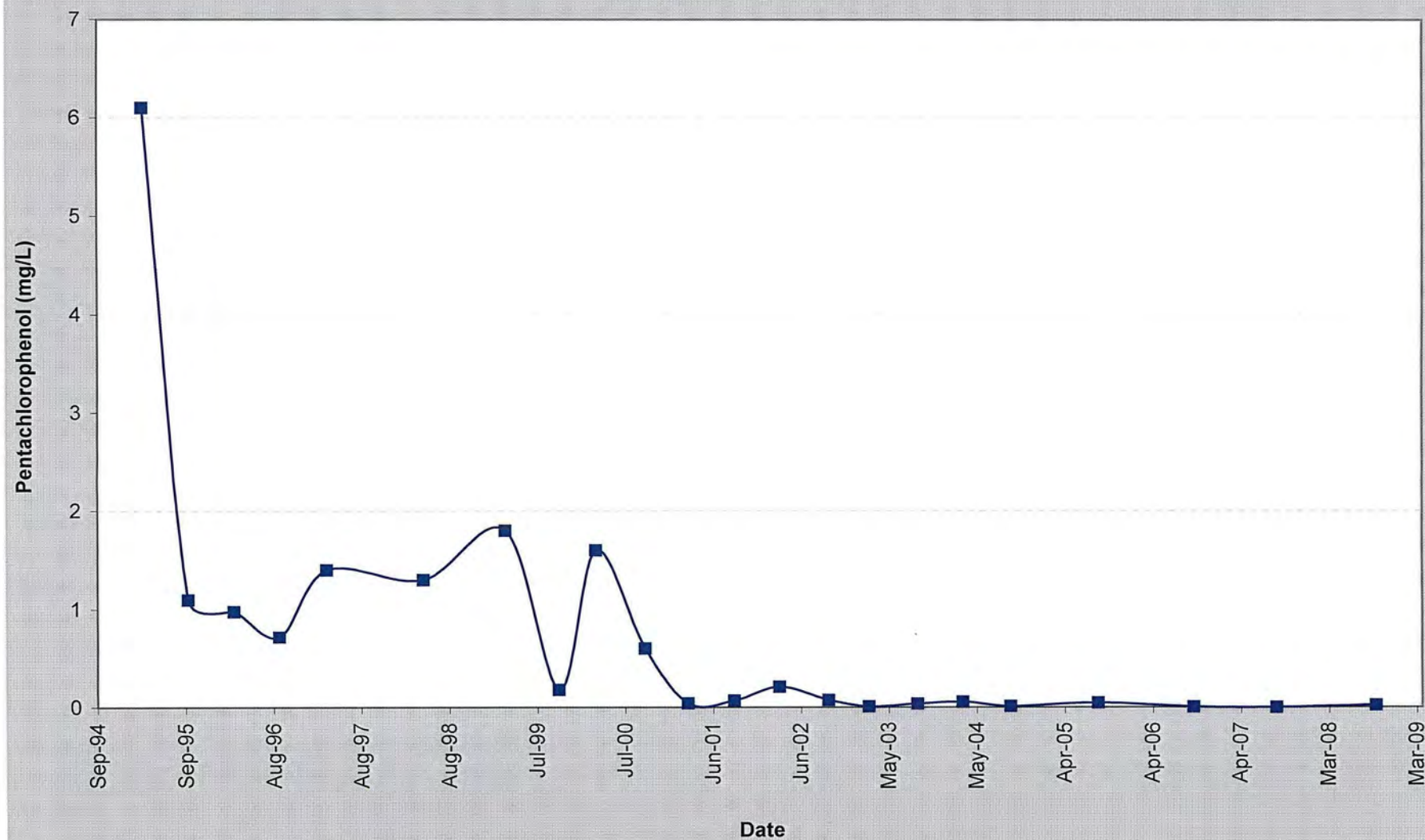
P- 21
Pentachlorophenol



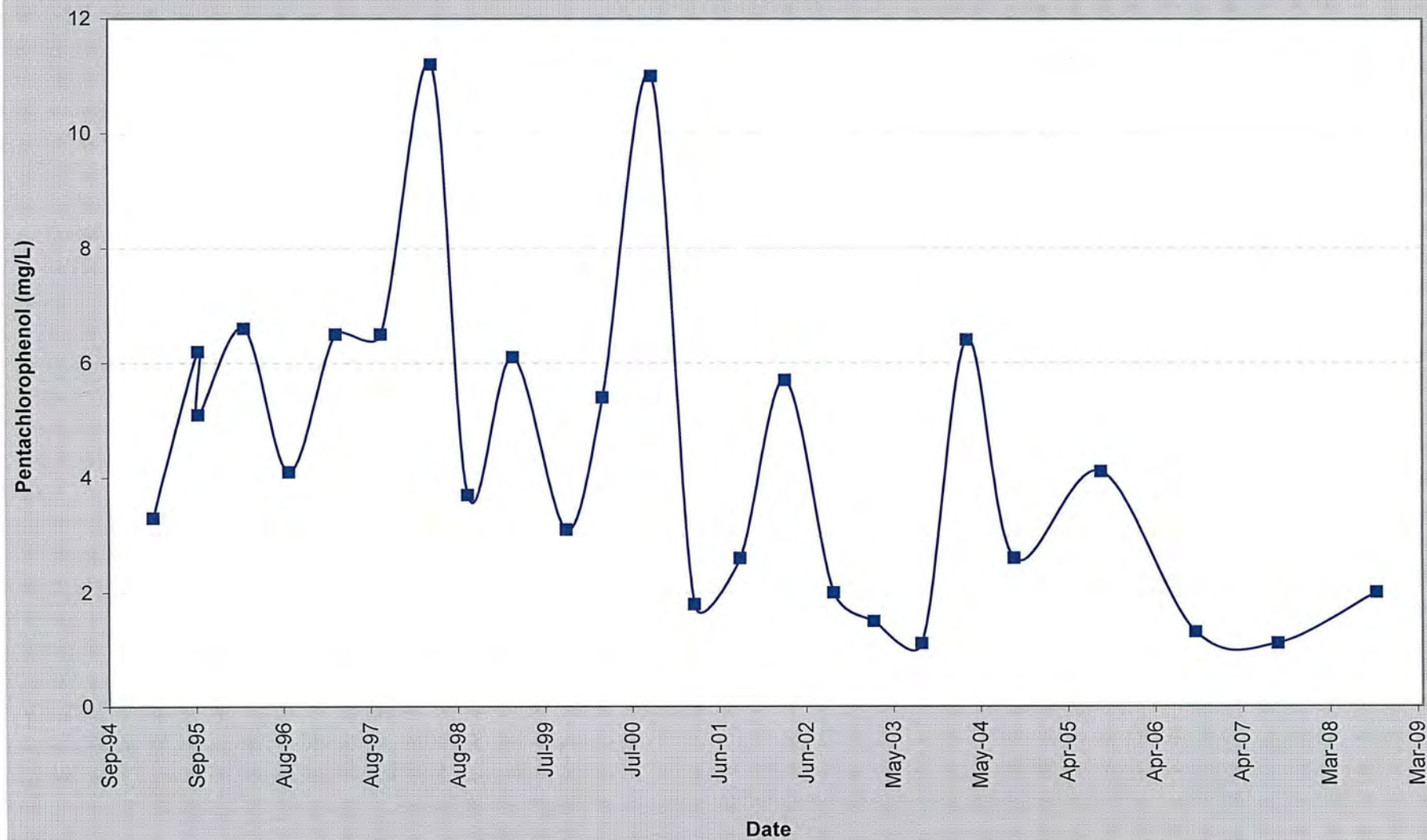
R - 1
Pentachlorophenol



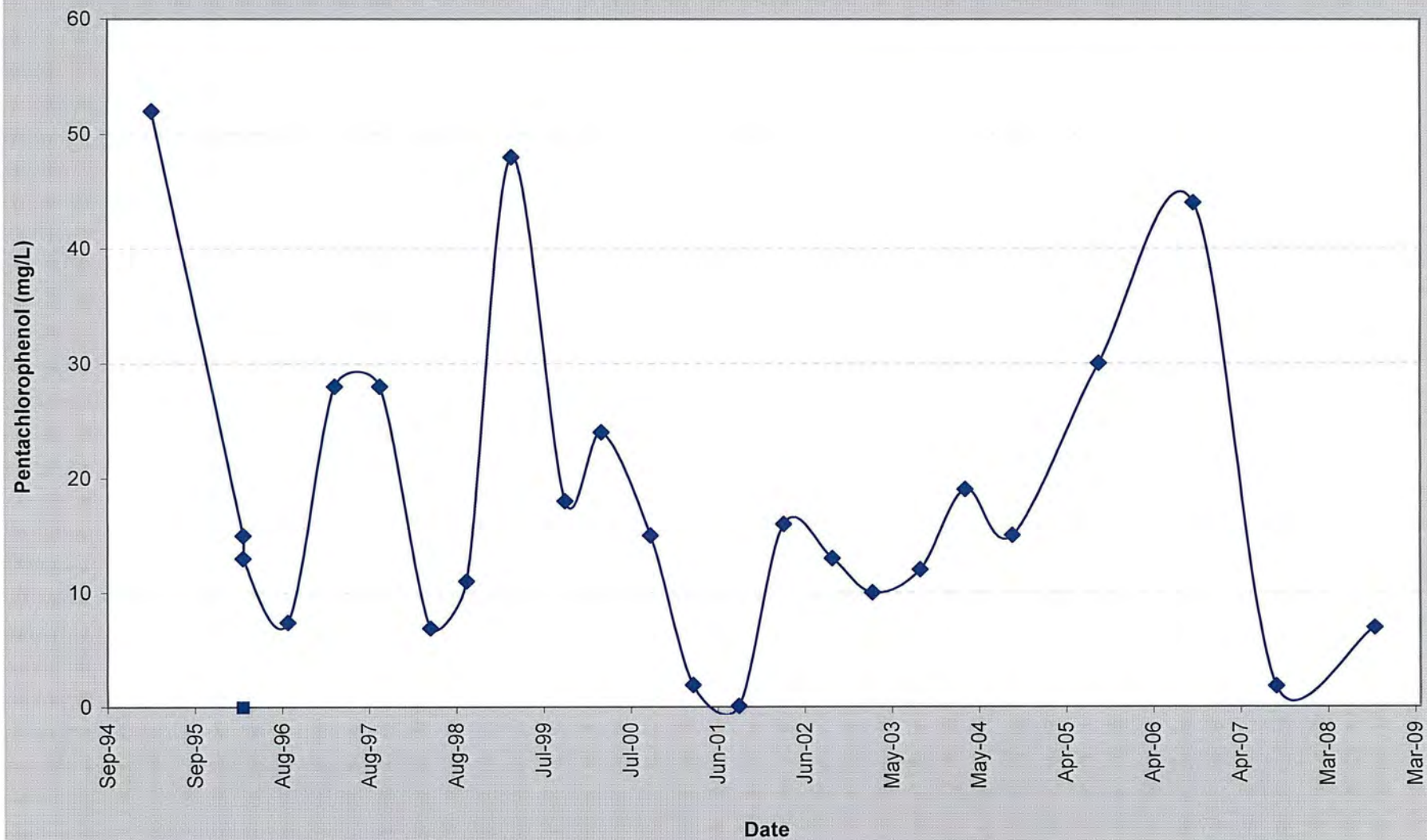
R - 2
Pentachlorophenol



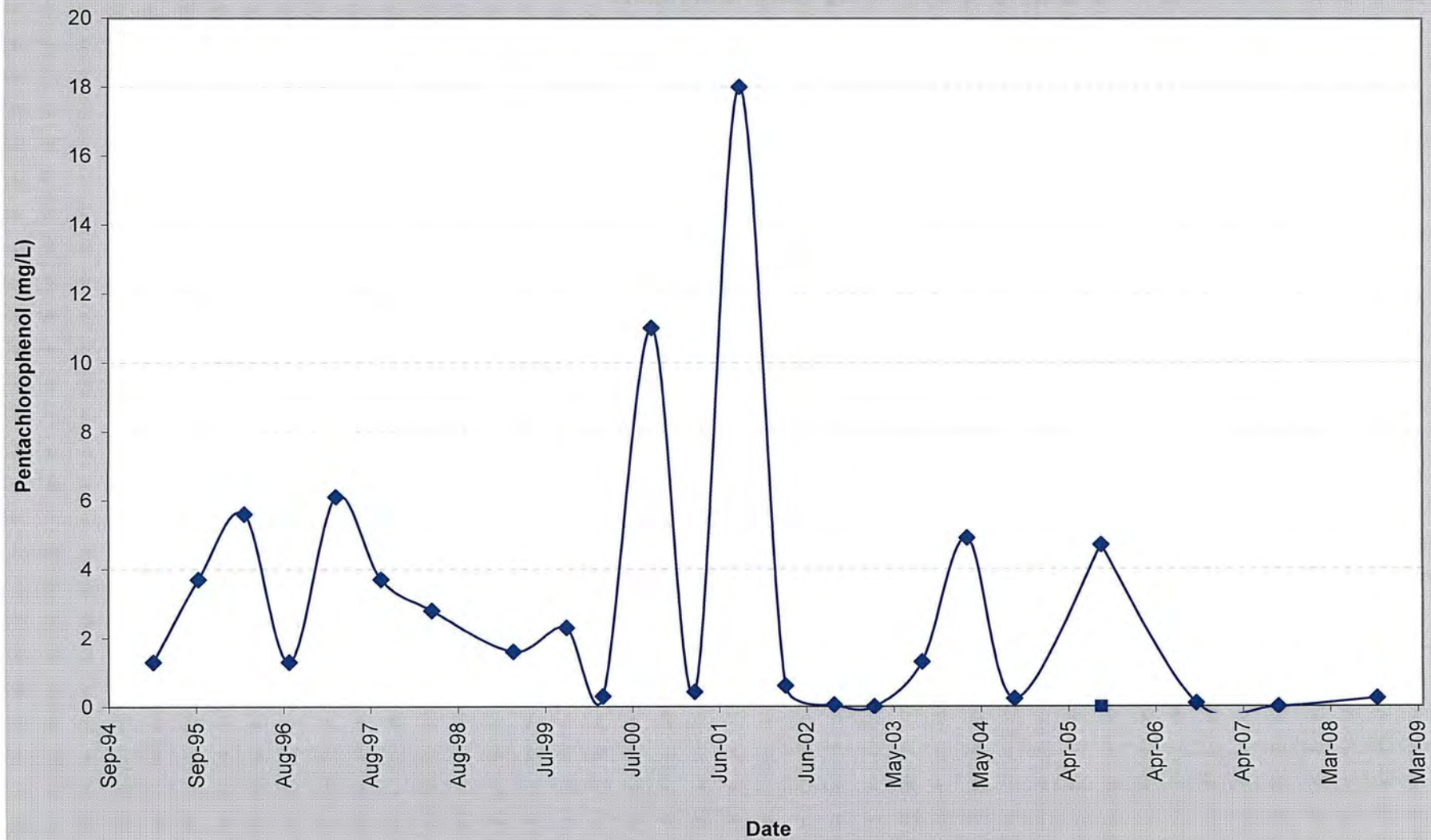
R - 3
Pentachlorophenol



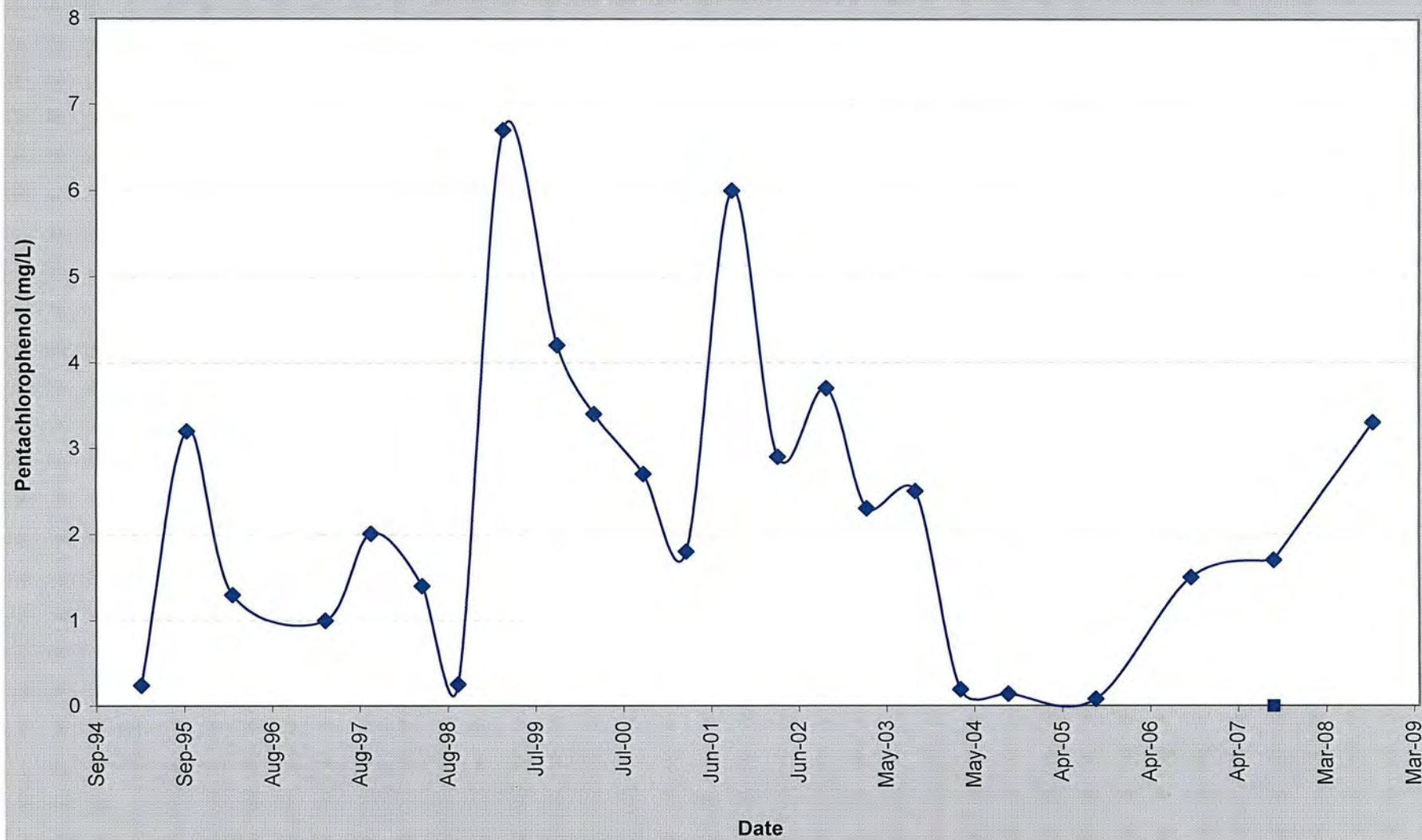
R - 4
Pentachlorophenol



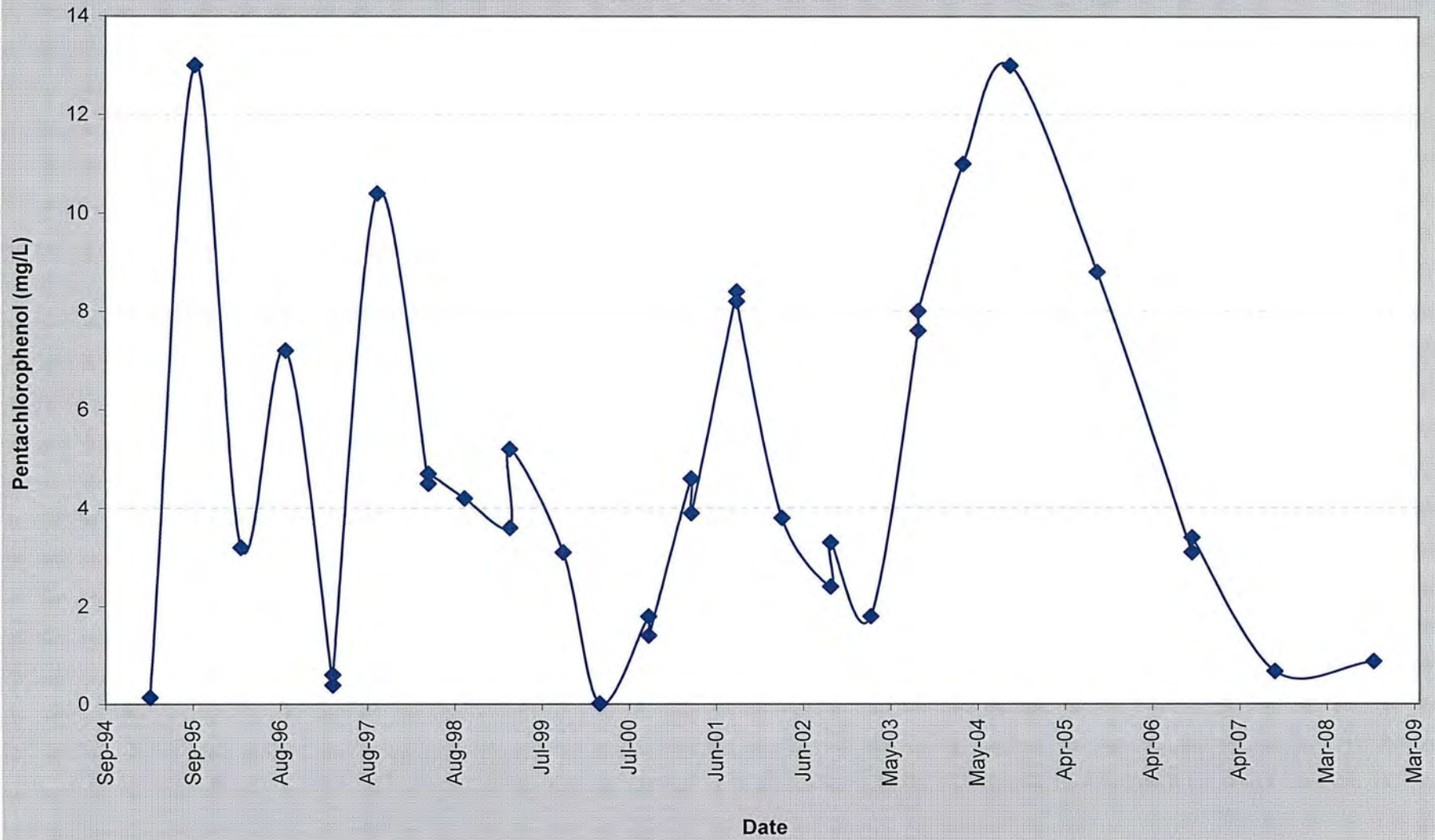
R - 5
Pentachlorophenol



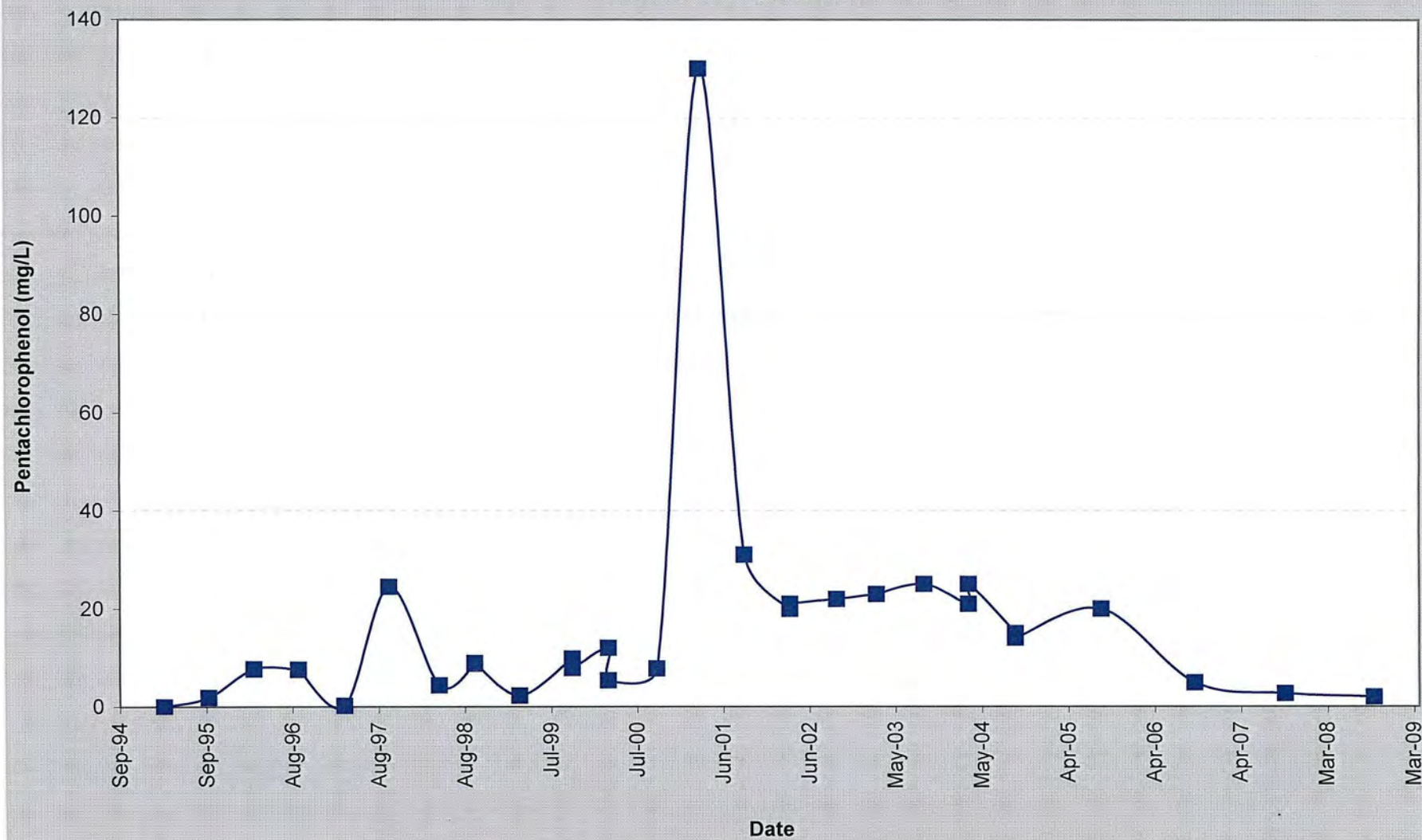
R - 7
Pentachlorophenol



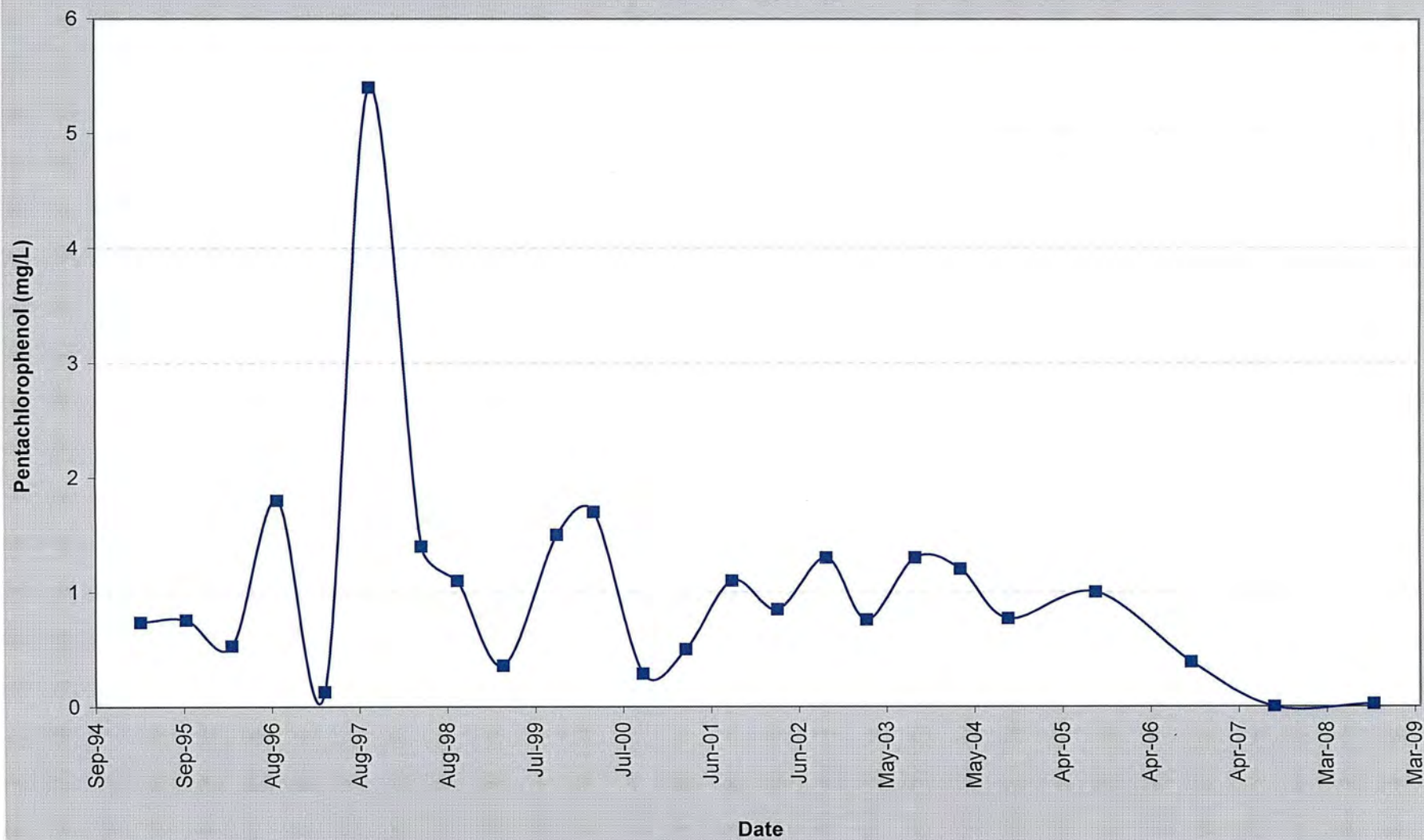
R - 8
Pentachlorophenol



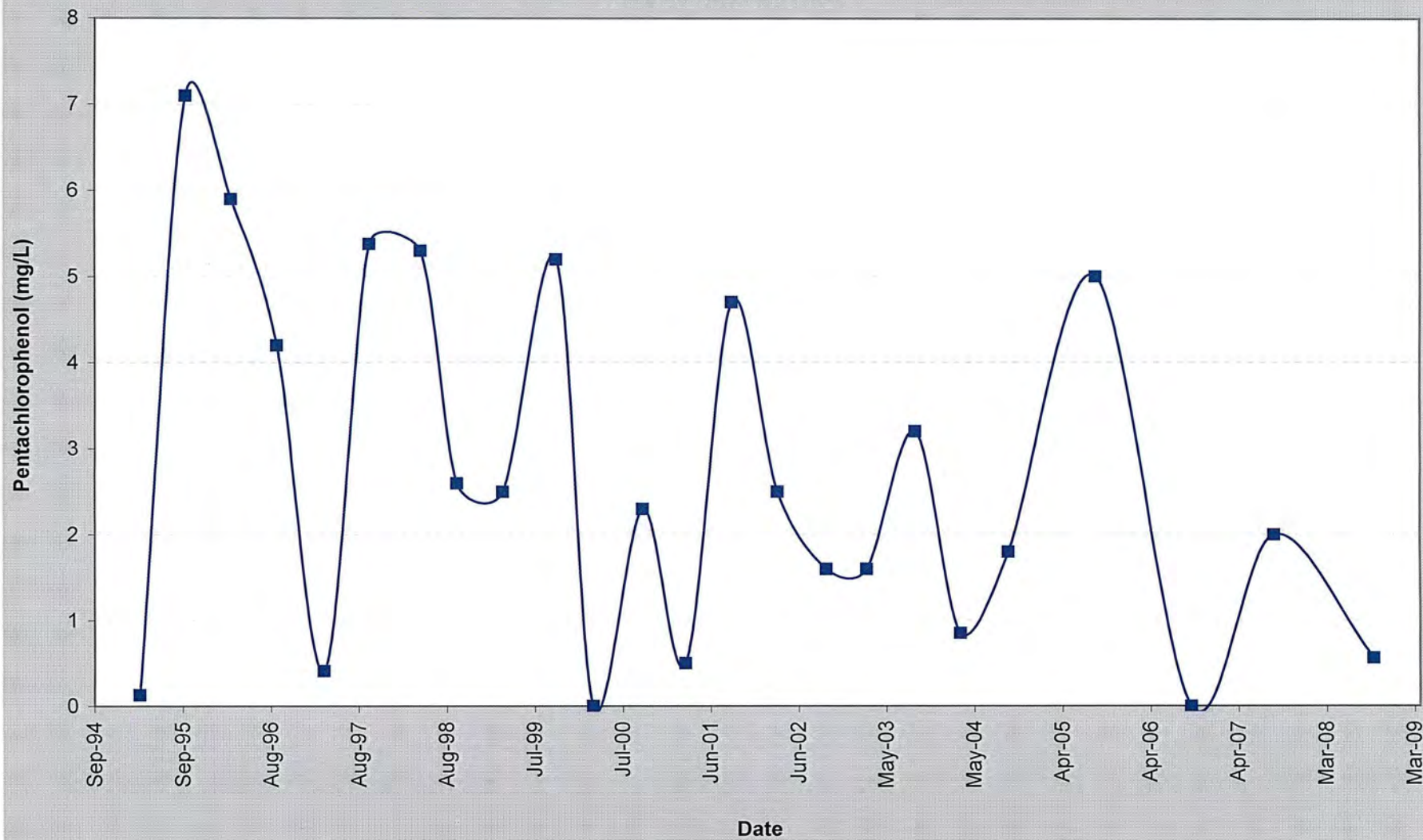
R - 9
Pentachlorophenol



R - 10
Pentachlorophenol



R - 11
Pentachlorophenol



October 31, 2008

Analytical Report for Service Request No: K0809371

Tim Browning
Permapost
25600 SW TV Hwy
P.O. Box 100
Hillsboro, OR 97123

NOV 06 2008

RECEIVED
NOV 03 2008
PERMAPOST PRODUCTS CO.

RE: Permapost Semi Annual

Dear Tim:

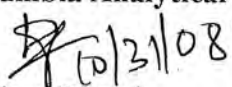
Enclosed are the results of the samples submitted to our laboratory on September 25, 2008. For your reference, these analyses have been assigned our service request number K0809371.

All analyses were performed according to our laboratory's quality assurance program. Where applicable, the methods cited conform to the Methods Update Rule (effective 4/11/2007), which relates to the use of analytical methods for the drinking water and waste water programs. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.


Pradeep Divvela
Project Chemist

PD/lb

Page 1 of 50

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- B The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL has been elevated due to a matrix interference.
- X See case narrative.
- * The duplicate analysis not within control limits. See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
- U The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
- i The MRL/MDL has been elevated due to a chromatographic interference.
- X See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request No.: K0809371
Date Received: 09/25/08

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Sample Receipt

Twenty four water samples were received for analysis at Columbia Analytical Services on 09/25/08. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Total Metals

No anomalies associated with the analysis of these samples were observed.

Pentachlorophenol by EPA Method 8151M

Continuing Calibration Verification (CCV) Exceptions:

The analysis of Chlorinated Phenols by EPA 8151 Modified requires the use of dual column confirmation. When the CCV criteria are met for both columns, the higher of the two sample results is generally reported. The primary evaluation criterion was exceeded for the following analytes in CCV 1015R018 and 1015R030: 4-Bromo-2,6-dichlorophenol and Pentachlorophenol; 1015F003, 1015F018, 1015F030, 1016F003, 1016R003, 1016F014, 1016R014, 1020F013, 1020F024, 1021F003 and 1021F0014: 4-Bromo-2,6-dichlorophenol. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the average percent recovery of all analytes in the verification standard. The standard meets the alternative evaluation criteria for CCVs 1015F003, 1015R018, 1015R030, 1016R003, and 1016R014. The results are reported from the column with an acceptable CCV. The data quality is not affected. No further corrective action was necessary.

Results for 4-Bromo-2,6-dichlorophenol in several samples have been reported from a column using average percent recovery of all analytes in the verification standard.

Surrogate Exceptions:

The control criteria for surrogate 4-Bromo-2,6-dichlorophenol in a few samples are not applicable. The analysis of the samples required a dilution, which resulted in a surrogate concentration below the Method Reporting Limit (MRL). No further corrective action was appropriate.

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike/duplicate matrix spike recovery of Pentachlorophenol for Batch QC are not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Approved by _____

Date _____

Elevated Method Reporting Limits:

Several samples required dilution due to the presence of elevated levels of target analyte. The reporting limits are adjusted to reflect the dilution.

No other anomalies associated with the analysis of these samples were observed.

Approved by  Date 6/31/08

Chain of Custody Documentation

PROJECT NAME <u>PermaPost Semi Annual</u>						NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐ Volatile Organics 624 ☐ 8260 ☐ Hydrocarbons ("see below") Gas ☐ Diesel ☐ BTEX ☐ Fuel Fingerprint (FIQ) Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐ PCB's Aroclors ☐ Congeners ☐ Pesticides/Herbicides 608 ☐ 8081A ☐ Chlorophenolics Tri ☐ Tetra ☐ 8141A ☐ 8151M ☒ PAHS 8310 ☐ SIM ☐ Metals (Total by Dissolved) (See list below) Cyanide ☐ Hex-Chrom ☐ pH, Cond., Cl, SO₄, PO₄, F, NO₃, NO₂, BOD, TSS, TDS (circle)², NH₃-N, COD, Total-P, TKN, TOC, DOC (circle) NO₂+NO₃ TOX 9020 ☐ AOX 1650 ☐ 506 ☐														
PROJECT NUMBER _____																					
PROJECT MANAGER <u>Tina Branning (Delta)</u>																					
COMPANY ADDRESS <u>4640 SW Macadam Ave, Suite 110</u>																					
CITY/STATE/ZIP <u>Portland, OR 97239</u>																					
E-MAIL ADDRESS _____																					
PHONE # _____ FAX# _____																					
SAMPLER'S SIGNATURE <u>[Signature]</u>																					
SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX		REMARKS															
PP-080922-P-16	9/12/08	1240	1	W	1																
17R		1338	2	W	1																
19B		1440	3	W	2																
19-A		1530	4	W	1																
PP-080923-15B	9/13/08	800	5	W	1																
12B		920	6	W	1																
12BD		925	7	W	1																
12C		840	8	W	2																
14A		945	9	W	1																
14C		1100	10	W	2																

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

☒ II. Report Dup., MS, MSD as required

___ III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

___ V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

Circle which metals are to be analyzed:

Total Metals ☒ Al ☒ As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.

___ 5 Day

☒ Standard (10-15 working days)

___ Provide FAX Results

Requested Report Date: _____

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY: <u>[Signature]</u> Signature _____ Date/Time <u>9/24/08 1800</u> Printed Name <u>Staguard</u> Firm <u>PTS</u>	RECEIVED BY: <u>[Signature]</u> Signature _____ Date/Time <u>9/25/08 1400</u> Printed Name <u>John [unclear]</u> Firm <u>Delta</u>	RELINQUISHED BY: Signature _____ Date/Time _____ Printed Name _____ Firm _____	RECEIVED BY: Signature _____ Date/Time _____ Printed Name _____ Firm _____
---	---	--	--

PROJECT NAME **Purmapost Semi Annual**
PROJECT NUMBER _____
PROJECT MANAGER **Tim Browning**
COMPANY/ADDRESS **4640 SW Macadam Ave, Suite 110**
Portland OR 97239
CITY/STATE/ZIP _____
E-MAIL ADDRESS _____
PHONE # _____ FAX# _____
SAMPLER'S SIGNATURE *[Signature]*

					NUMBER OF CONTAINERS																					REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
					Semivolatiles Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐	Fuel Fingerprint (FIQ) ☐	NW-HCID Screen ☐	Oil & Grease/TPH ☐	1664 HEM ☐ 1664 SGT ☐	PCB's ☐	Aroclors ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenols Tri ☐ Tetra ☐ PCP ☐	PAHS ☐ 8310 ☐ SIM ☐	Metals (Total & Dissolved) (See list below)	Cyanide ☐	Hex-Chrom ☐	pH, Cond., Cl, SO ₄ , PO ₄ , F, NO ₂ , NH ₃ -N, COD, TSS, TDS (circle) 2, DOC (circle) NO ₂ +HNO ₃	TOX 9020 ☐ AOX 1650 ☐ 506 ☐																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
1															X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- ☒ II. Report Dup., MS, MSD as required
- ___ III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- ___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
☒ Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date _____

Circle which metals are to be analyzed:

☒ Total Metals: Al ☒ As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:

Signature *[Signature]* Date/Time *9/25/08 1400*
Printed Name *S. Hamner* Firm *Altitude*

Signature *[Signature]* Date/Time *9/25/08 1400*
Printed Name *[Signature]* Firm *Altitude*

Signature _____ Date/Time _____
Printed Name _____ Firm _____

Signature _____ Date/Time _____
Printed Name _____ Firm _____

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC P.D

Int / Project: Permapost Service Request K08 9371
Received: 9/25/08 Opened: 9/25/08 By: KS

Samples were received via? US Mail Fed Ex UPS DHL GH GS PDX Courier Hand Delivered

Samples were received in: (circle) cooler Box Envelope Other NA

Were custody seals on coolers? NA Y N If yes, how many and where? _____

If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Is shipper's air-bill filed? If not, record air-bill number: _____ NA Y N

Temperature of cooler(s) upon receipt (°C): 6.9 7.7 7.6

Temperature Blank (°C): ✓ 7.7 7.6

If applicable, list Chain of Custody Numbers: _____

Packing material used. Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other _____

Were custody papers properly filled out (ink, signed, etc.)? NA Y N

Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N

Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N

Did all sample labels and tags agree with custody papers? *Indicate in the table below* NA Y N

Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N

Were the pH-preserved bottles tested* received at the appropriate pH? *Indicate in the table below* NA Y N

Were VOA vials and 1631 Mercury bottles received without headspace? *Indicate in the table below.* NA Y N

Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection? NA Y N

Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broken	pH	Reagent	Volume added	Reagent Lot Number	Initials

not include all pH preserved sample aliquots received. See sample receiving SOP (SMO-GE).
Additional Notes, Discrepancies, & Resolutions: Ice completely thawed

Metals

COLUMBIA ANALYTICAL SERVICES, INC.

- Cover Page -

INORGANIC ANALYSIS DATA PACKAGE

Client : Permapost
Project Name : Permapost Semi Annual
Project No. : NA

Service Request : K0809371

Sample Name :

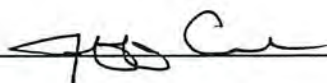
PP-080922-P-19B
PP-080923-12C
PP-080923-14C
PP-080924-18B
PP-080924-R-2
PP-080924-R-3
PP-080924-R-4
PP-080924-R-7
PP-080924-R-9
PP-080924-R-9
PP-080924-R-9
Laboratory Control Sample
Method Blank

Lab Code :

K0809371-003
K0809371-008
K0809371-010
K0809371-014
K0809371-016
K0809371-017
K0809371-018
K0809371-020
K0809371-022
K0809371-022D
K0809371-022S
K0809371-LCS
K0809371-MB

Comments:

Approved By: _____



Date: _____

10/31/08

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client : Permapost
Project Name : Permapost Semi Annual
Project No. : NA
Matrix : Water

Service Request : K0809371
Date Collected : 09/22-24/08
Date Received : 09/25/08
Date Extracted : 10/18/08

Total Metals
Units: ug/L (ppb)

Analyte: Arsenic
Analysis Method: 7060A
Method Reporting Limit: 5.0
Date Analyzed: 10/23/08

Sample Name	Lab Code	
PP-080922-P-19B	K0809371-003	14.2
PP-080923-12C	K0809371-008	ND
PP-080923-14C	K0809371-010	22.1
PP-080924-18B	K0809371-014	10.3
PP-080924-R-2	K0809371-016	28.9
PP-080924-R-3	K0809371-017	161
PP-080924-R-4	K0809371-018	ND
PP-080924-R-7	K0809371-020	133
PP-080924-R-9	K0809371-022	24.1
Method Blank	K0809371-MB	ND

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Permapost
 Project Name : Permapost Semi Annual
 Project No. : NA
 Matrix : Water

Service Request : K0809371
 Date Collected : 09/24/08
 Date Received : 09/25/08
 Date Extracted : 10/18/08
 Date Analyzed : 10/23/08

Duplicate Summary Total Metals

Sample Name : PP-080924-R-9
 Lab Code : K0809371-022D

Units : ug/L (ppb)
 Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Arsenic	7060A	5.0	24.1	22.8	23.4	6	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Permapost
Project Name : Permapost Semi Annual
Project No. : NA
Matrix : Water

Service Request : K0809371
Date Collected : 09/24/08
Date Received : 09/25/08
Date Extracted : 10/18/08
Date Analyzed : 10/23/08

**Matrix Spike Summary
Total Metals**

Sample Name : PP-080924-R-9
Lab Code : K0809371-022S

Units : ug/L (ppb)
Basis : NA

Analyte	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	5.0	40	24.1	61.5	94	58-131	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client : Permapost
Project Name : Permapost Semi Annual
Project No. : NA
Matrix : Water

Service Request : K0809371
Date Collected : NA
Date Received : NA
Date Extracted : 10/18/08
Date Analyzed : 10/23/08

Laboratory Control Sample Summary Total Metals

Sample Name : Laboratory Control Sample
Lab Code : K0809371-LCS

Units : ug/L (ppb)
Basis : NA

Analyte	Analysis Method	True Value	Result	Percent	CAS Percent Recovery Acceptance Limits	Result Notes
Arsenic	7060A	25	21.2	85	77-113	

Comments:

Pentachlorophenol
EPA Method 8151

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/22/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080922-P-16
Lab Code: K0809371-001
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	1	09/29/08	10/15/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
l-Bromo-2,6-dichlorophenol	89	22-117	10/15/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/22/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080922-P-17R
Lab Code: K0809371-002
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	1	09/29/08	10/15/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	95	22-117	10/15/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/22/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080922-P-19B
Lab Code: K0809371-003

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8151M

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	1200	D	25	50	09/29/08	10/15/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
l-Bromo-2,6-dichlorophenol	88	22-117	10/15/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/22/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080922-P-19A
Lab Code: K0809371-004

Units: ug/L

Basis: NA

Level: Low

Extraction Method: METHOD
Analysis Method: 8151M

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	2.9		0.50	1	09/29/08	10/15/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	97	22-117	10/15/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/23/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080923-15B
Lab Code: K0809371-005
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	550	D	25	50	09/29/08	10/16/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	76	22-117	10/16/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/23/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080923-12B
Lab Code: K0809371-006
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	130	D	5.0	10	09/29/08	10/15/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	73	22-117	10/15/08	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/23/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080923-12BD
Lab Code: K0809371-007
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	150	D	5.0	10	09/29/08	10/16/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
p-Bromo-2,6-dichlorophenol	81	22-117	10/16/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/23/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080923-12C
Lab Code: K0809371-008
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	350	D	5.0	10	09/29/08	10/16/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	81	22-117	10/16/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/23/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080923-14A
Lab Code: K0809371-009
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	12000 D	500	1000	09/29/08	10/16/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1-Bromo-2,6-dichlorophenol	94	22-117	10/16/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/23/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080923-14C
Lab Code: K0809371-010

Units: ug/L

Basis: NA

Level: Low

Extraction Method: METHOD
Analysis Method: 8151M

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	2.1	0.50	1	09/29/08	10/16/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	84	22-117	10/16/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/23/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080923-14B
Lab Code: K0809371-011
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	15000	D	500	1000	09/29/08	10/16/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	72	22-117	10/16/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-18C
Lab Code: K0809371-012
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	0.96		0.50	1	10/01/08	10/21/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	91	22-117	10/21/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-18CD
Lab Code: K0809371-013
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	1.2	0.50	1	10/01/08	10/21/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	94	22-117	10/21/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-18B
Lab Code: K0809371-014
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	550	D	25	50	10/01/08	10/21/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	90	22-117	10/18/08	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-R-1
Lab Code: K0809371-015
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	22 D	5.0	10	10/01/08	10/18/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	81	22-117	10/18/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-R-2
Lab Code: K0809371-016

Units: ug/L

Basis: NA

Level: Low

Extraction Method: METHOD
Analysis Method: 8151M

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	0.52		0.50	1	10/01/08	10/21/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	82	22-117	10/21/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-R-3
Lab Code: K0809371-017
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	2000	D	50	100	10/01/08	10/21/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
l-Bromo-2,6-dichlorophenol	103	22-117	10/21/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-R-4
Lab Code: K0809371-018
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	6900	D	100	200	10/01/08	10/21/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	90	22-117	10/21/08	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-R-5
Lab Code: K0809371-019
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	240	D	5.0	10	10/01/08	10/18/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
p-Bromo-2,6-dichlorophenol	86	22-117	10/18/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-R-7
Lab Code: K0809371-020
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	3300	D	50	100	10/01/08	10/21/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	101	22-117	10/21/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-R-8
Lab Code: K0809371-021
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	870	D	25	50	10/01/08	10/21/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
l-Bromo-2,6-dichlorophenol	82	22-117	10/18/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-R-9
Lab Code: K0809371-022
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	2000	D	50	100	10/01/08	10/21/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	86	22-117	10/18/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-R-10
Lab Code: K0809371-023
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	25	D	5.0	10	10/01/08	10/18/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	79	22-117	10/18/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: 09/24/2008
Date Received: 09/25/2008

Pentachlorophenol

Sample Name: PP-080924-R-11
Lab Code: K0809371-024

Units: ug/L

Basis: NA

Level: Low

Extraction Method: METHOD
Analysis Method: 8151M

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	560	D	25	50	10/01/08	10/21/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	80	22-117	10/21/08	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: NA
Date Received: NA

Pentachlorophenol

Sample Name: Method Blank
Lab Code: KWG0810175-4
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND	U	0.50	1	09/29/08	10/15/08	KWG0810175	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	81	22-117	10/15/08	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Collected: NA
Date Received: NA

Pentachlorophenol

Sample Name: Method Blank
Lab Code: KWG0810253-4
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Pentachlorophenol	ND U	0.50	1	10/01/08	10/18/08	KWG0810253	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromo-2,6-dichlorophenol	103	22-117	10/18/08	Acceptable

Comments: _____

Client: Permapost
 Project: Permapost Semi Annual
 Sample Matrix: Water

Service Request: K0809371

Surrogate Recovery Summary
 Pentachlorophenol

Extraction Method: METHOD
 Analysis Method: 8151M

Units: PERCENT
 Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
P-P-080922-P-16	K0809371-001	89
P-P-080922-P-17R	K0809371-002	95
P-P-080922-P-19B	K0809371-003	88 D
P-P-080922-P-19A	K0809371-004	97
P-P-080923-15B	K0809371-005	76 D
P-P-080923-12B	K0809371-006	73 D
P-P-080923-12BD	K0809371-007	81 D
P-P-080923-12C	K0809371-008	81 D
P-P-080923-14A	K0809371-009	94 D #
P-P-080923-14C	K0809371-010	84
P-P-080923-14B	K0809371-011	72 D #
P-P-080924-18C	K0809371-012	91
P-P-080924-18CD	K0809371-013	94
P-P-080924-18B	K0809371-014	90 D
P-P-080924-R-1	K0809371-015	81 D
P-P-080924-R-2	K0809371-016	82
P-P-080924-R-3	K0809371-017	103 D #
P-P-080924-R-4	K0809371-018	90 D #
P-P-080924-R-5	K0809371-019	86 D
P-P-080924-R-7	K0809371-020	101 D #
P-P-080924-R-8	K0809371-021	82 D
P-P-080924-R-9	K0809371-022	86 D
P-P-080924-R-10	K0809371-023	79 D
P-P-080924-R-11	K0809371-024	80 D
Method Blank	KWG0810175-4	81
Method Blank	KWG0810253-4	103
Batch QC	K0809261-001	83 D
Batch QCMS	KWG0810175-1	84 D
Batch QCDMS	KWG0810175-2	70 D
P-P-080924-18CMS	KWG0810253-1	87
P-P-080924-18CDMS	KWG0810253-2	92
Lab Control Sample	KWG0810175-3	91
Lab Control Sample	KWG0810253-3	110

Surrogate Recovery Control Limits (%)

Sur1 = 4-Bromo-2,6-dichlorophenol 22-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Extracted: 09/29/2008
Date Analyzed: 10/15/2008

Matrix Spike/Duplicate Matrix Spike Summary
Pentachlorophenol

Sample Name: Batch QC
Lab Code: K0809261-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 8151M

Level: Low
Extraction Lot: KWG0810175

Analyte Name	Sample Result	Batch QCMS KWG0810175-1 Matrix Spike			Batch QCDMS KWG0810175-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Pentachlorophenol	1400	1500	10.0	818 #	1390	10.0	-257 #	32-123	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Extracted: 10/01/2008
Date Analyzed: 10/21/2008

Matrix Spike/Duplicate Matrix Spike Summary
Pentachlorophenol

Sample Name: PP-080924-18C
Lab Code: K0809371-012
Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0810253

Analyte Name	Sample Result	PP-080924-18CMS KWG0810253-1 Matrix Spike			PP-080924-18CDMS KWG0810253-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Pentachlorophenol	0.96	7.51	10.0	65	7.34	10.0	64	32-123	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Extracted: 09/29/2008
Date Analyzed: 10/15/2008

Lab Control Spike Summary
Pentachlorophenol

Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0810175

Lab Control Sample
KWG0810175-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Pentachlorophenol	6.49	10.0	65	42-119

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Permapost
Project: Permapost Semi Annual
Sample Matrix: Water

Service Request: K0809371
Date Extracted: 10/01/2008
Date Analyzed: 10/18/2008

Lab Control Spike Summary
Pentachlorophenol

Extraction Method: METHOD
Analysis Method: 8151M

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG0810253

Analyte Name	Lab Control Sample KWG0810253-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Pentachlorophenol	8.03	10.0	80	42-119

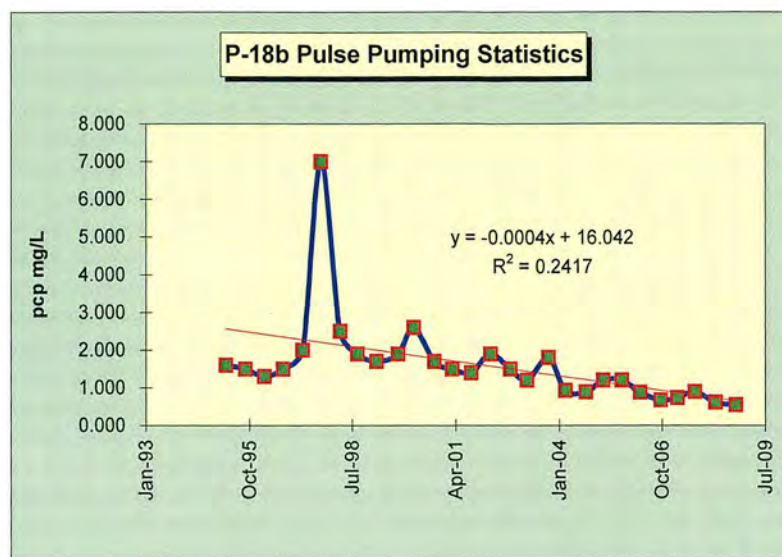
Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Appendix B
Statistical Results

Statistical Reduction of Data for Annual Effectiveness Report

Date	Penta
03/15/95	1.600
09/18/95	1.500
03/20/96	1.300
09/17/96	1.500
03/26/97	2.000
09/23/97	7.000
03/25/98	2.500
09/10/98	1.900
03/12/99	1.700
10/08/99	1.900
03/07/00	2.600
09/21/00	1.700
03/14/01	1.500
09/12/01	1.400
03/19/02	1.900
09/26/02	1.500
03/05/03	1.200
09/30/03	1.800
03/12/04	0.930
09/24/04	0.890
03/14/05	1.200
09/08/05	1.200
03/06/06	0.880
09/25/06	0.680
03/07/07	0.740
08/23/07	0.900
03/11/08	0.620
09/24/08	0.55



Absolute value T stat > Absolute value T table, Significant Slope

T stat = -2.87

T table (95% confidence) = 2.048

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.49163702
R Square	0.24170696
Adjusted R Square	0.21254184
Standard Error	1.04882285
Observations	28

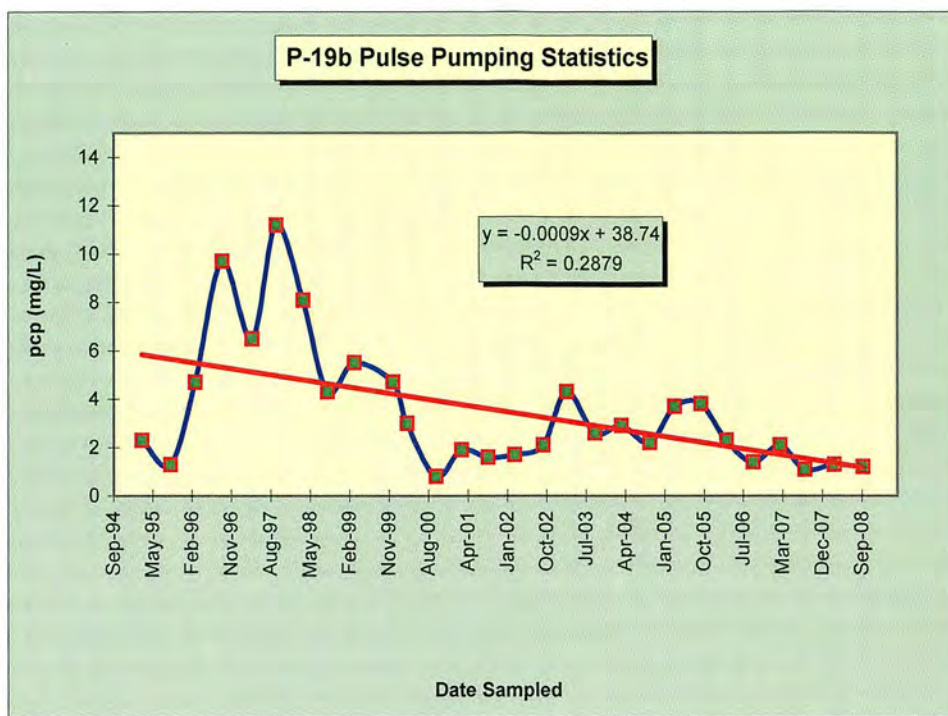
ANOVA

	df	SS	MS	F	Significance F
Regression	1	9.116533	9.116533	8.28753605	0.00788233
Residual	26	28.60076343	1.10002936		
Total	27	37.71729643			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	16.0418118	5.016913369	3.1975461	0.00362473	5.72939877	26.3542248	5.72939877	26.3542248
X Variable 1	-0.00038752	0.00013461	-2.8788081	0.00788233	-0.00066421	-0.00011082	-0.00066421	-0.00011082

Statistical Reduction of Data for Annual Effectiveness Report

Date	Penta
03/15/95	2.3
09/28/95	1.3
03/17/96	4.7
09/18/96	9.7
04/11/97	6.5
09/24/97	11.2
03/26/98	8.1
09/09/98	4.3
03/11/99	5.5
12/01/99	4.7
03/07/00	3
09/20/00	0.81
03/14/01	1.9
09/12/01	1.6
03/14/02	1.7
09/26/02	2.1
03/06/03	4.3
09/16/03	2.6
03/15/04	2.9
09/24/04	2.2
03/15/05	3.7
09/09/05	3.8
03/06/06	2.3
09/06/06	1.4
03/07/07	2.1
08/23/07	1.1
03/11/08	1.300
09/22/08	1.200



Absolute value T stat > Absolute value T table, Significant Slope

T stat = -3.242

T table (95% confidence) = 2.048

SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.536562684
R Square	0.287899514
Adjusted R Sq	0.260511033
Standard Error	2.268379786
Observations	28

ANOVA

	df	SS	MS	F	Significance F
Regression	1	54.08844971	54.08844971	10.51170095	0.00324446
Residual	26	133.7842181	5.145546852		
Total	27	187.8726679			

	Coefficients	Standard Error	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	38.73974448	10.87420503	3.562535778	0.001446566	16.38749614	61.09199283	16.38749614	61.09199283
X Variable 1	-0.000945927	0.000291757	-3.242175342	0.00324446	-0.001545641	-0.000346212	-0.001545641	-0.000346212

Appendix C
Groundwater Monitoring Sheets

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Ned Thatt
checked by: st

DATE: 6/2/06
TIME: 4:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	4	7	6	9	4	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Chlorine Dosage Rate	4	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	<u>Running</u>								gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Carbon Series 1 Pressure	Before:									psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	6	4	9	8	9	8	0	gallons	Flow Rate: 5 gal/25.5 seconds = <u>11.8</u> gpm	

Eight Digits

5 gal 24.6 csec
5 gal 25.8 csec
5 gal 25.9 csec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>np</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-3	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>np</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> <u>N</u>	Oil Tank Full <u>Y</u> <u>N</u>
R-7	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>np</u> gpm

Are all R wells visible accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible accessible and undamaged?

(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil T. Hunt

Checked by [signature]

DATE: 6/4/08

TIME: 4:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	4	8	0	0	1	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>10</u> gpm
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:	5	psi							After:	5	psi
Bag Filter 2 Pressure	Before:	5	psi							After:	5	psi
All Bag Filters below 30 psi? <u>(Y)</u> N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:									gallons	Flow Rate: 5 gal/	seconds = <u>10</u> gpm
Carbon Series 1 Pressure	Before:	0	psi							After:	0	psi
Carbon Series 2 Pressure	Before:	5	psi							After:	5	psi
Carbon Series 3 Pressure	Before:	5	psi							After:	5	psi
All Carbon Pressures below 15 psi? <u>(Y)</u> N (NOTE: If greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	6	5	3	8	6	0	gallons	Flow Rate: 5 gal/	seconds = <u>2.2</u> gpm	

Eight Digits

5 gal/ 24.8 sec
5 gal/ 24.8 sec
5 gal/ 24.5 sec

RECOVERY WELL SYSTEM

3645430

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: <u>3 6 4 5 4 3 0</u>	1 gal/ seconds = <u>10</u> gpm
R-2	Six Digits: <u>5 8 7 4 9 7</u>	1 gal/ seconds = <u>10</u> gpm
R-3	Six Digits: <u>7 6 4 2 3 0</u>	1 gal/ seconds = <u>10</u> gpm
R-4	Seven Digits: <u>4 7 4 2 9 5 0</u>	1 gal/ seconds = <u>10</u> gpm
R-5	Seven Digits: <u>5 9 0 8 3 2 0</u>	1 gal/ seconds = <u>10</u> gpm
R-6	Oil/Water Separator Operating? <u>(Y)</u> N	Oil Tank Full <u>(Y)</u> N
R-7	Six Digits: <u>7 8 9 5 3 0</u>	1 gal/ seconds = <u>10</u> gpm
R-8	Six Digits: <u>5 1 5 7 9 0</u>	1 gal/ seconds = <u>10</u> gpm
R-9	Six Digits: <u>2 7 2 7 5 0</u>	1 gal/ seconds = <u>10</u> gpm
R-10	Six Digits: <u>5 4 2 5 7 0</u>	1 gal/ seconds = <u>10</u> gpm
R-11	Seven Digits: <u>1 6 7 5 2 8 0</u>	1 gal/ seconds = <u>10</u> gpm

Are all R wells visible, accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Neil Thurt
checked by et

DATE:

6/6/08

TIME:

12:45

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	4	0	3	7	5	0	0	gallons	Flow Rate:	5 gal/	seconds =	np	gpm
Chlorine Dosage Rate	4	6	(NOTE: if not at 4 or 5, contact management)												
Bag Filter 1 Pressure	Before:	10	psi							After:	5	psi			
Bag Filter 2 Pressure	Before:	5	psi							After:	2	psi			
All Bag Filters below 30 psi?	☒ Y		☐ N		(NOTE: if greater than 30 psi, contact management)										
Transfer Pump Flow	Total Flow:	gallons								Flow Rate:	5 gal/	seconds =	np	gpm	
Carbon Series 1 Pressure	Before:	0	psi							After:	0	psi			
Carbon Series 2 Pressure	Before:	5	psi							After:	0	psi			
Carbon Series 3 Pressure	Before:	5	psi							After:	0	psi			
All Carbon Pressures below 15 psi?	☒ Y		☐ N		(NOTE: if greater than 15 psi, contact management)										
Flow to Infiltration Unit	Total Flow:	3	6	5	6	9	9	8	0	gallons	Flow Rate:	5 gal/25.2 seconds =	11.9	gpm	

Eight Digits

5 gal 24.8 (sec)
5 gal 25.5 (sec)
5 gal 25.2 (sec)

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 6 5 0 2 0 0	1 gal/ seconds = np gpm
R-2	Six Digits 5 8 9 4 7 7	1 gal/ seconds = np gpm
R-3	Six Digits 7 6 9 6 4 0	1 gal/ seconds = np gpm
R-4	Seven Digits 4 7 4 8 0 7 0	1 gal/ seconds = np gpm
R-5	Seven Digits 5 9 1 6 0 5 0	1 gal/ seconds = np gpm
R-6	Oil/Water Separator Operating? ☒ Y ☐ N	Oil Tank Full ☒ Y ☐ N
R-7	Six Digits 7 9 2 2 9 0	1 gal/ seconds = np gpm
R-8	Six Digits 5 1 6 7 4 0	1 gal/ seconds = np gpm
R-9	Six Digits 2 7 3 4 5 0	1 gal/ seconds = np gpm
R-10	Six Digits 5 4 5 5 8 0	1 gal/ seconds = np gpm
R-11	Seven Digits 1 6 7 6 5 9 0	1 gal/ seconds = np gpm

Are all R wells visible, accessible, operating properly and undamaged?

☒ Y ☐ N (describe below)

Are well boxes locked and undamaged?

☒ Y ☐ N (describe below)

Are all re-infiltration points free from overflowing water?

☒ Y ☐ N (describe below)

Are all nearby P wells visible, accessible, and undamaged?

☒ Y ☐ N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Will Thut
checked by et

DATE: 6/9/08
TIME: 12:45

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	4	0	9	3	9	0	0	gallons	Flow Rate: 5 gal/	seconds = NP gpm
Chlorine Dosage Rate	4	5	(NOTE: If not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: If greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	1004								gallons	Flow Rate: 5 gal/	seconds = NP gpm
Carbon Series 1 Pressure	Before:	Running								psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: If greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	6	6	2	3	9	1	0	gallons	Flow Rate: 5 gal/22.5	seconds = 13.3 gpm

Eight Digits

5 gal 21.7 sec
5 gal 22.5 sec
5 gal 22.3 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 6 5 7 8 0 0	1 gal/ seconds = NP gpm
R-2	Six Digits: 5 8 9 6 8 8	1 gal/ seconds = NP gpm
R-3	Six Digits: 7 7 8 1 7 0	1 gal/ seconds = NP gpm
R-4	Seven Digits: 4 7 5 7 3 9 0	1 gal/ seconds = NP gpm
R-5	Seven Digits: 5 9 2 7 8 4 0	1 gal/ seconds = NP gpm
R-6	Oil/Water Separator Operating? (Y) N	Oil Tank Full Y (N)
R-7	Six Digits: 7 9 6 6 8 2	1 gal/ seconds = NP gpm
R-8	Six Digits: 5 1 8 2 1 0	1 gal/ seconds = NP gpm
R-9	Six Digits: 2 7 4 5 4 0	1 gal/ seconds = NP gpm
R-10	Six Digits: 5 5 0 4 5 2	1 gal/ seconds = NP gpm
R-11	Seven Digits: 1 6 7 8 6 2 0	1 gal/ seconds = NP gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible and undamaged?

(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thurt
checked by

DATE: 6/13/08
TIME: 1:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	4	9	7	1	7	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	<u>Not</u>								gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Carbon Series 1 Pressure	Before:									psi	After:	psi
Carbon Series 2 Pressure	Before:	<u>Running</u>								psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	6	6	9	2	0	4	0	gallons	Flow Rate: 5 gal/	seconds = <u>130</u> gpm

Eight Digits

5 gal 23.7 sec
5 gal 21.6 sec
5 gal 24.0 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 6 6 7 5 0 0	1 gal/ seconds = <u>np</u> gpm
R-2	Six Digits 5 8 9 6 7 8	1 gal/ seconds = <u>np</u> gpm
R-3	Six Digits 7 8 8 8 7 0	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits 4 7 7 1 3 4 0	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits 5 9 4 2 3 1 0	1 gal/ seconds = <u>np</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full <u>Y</u> N
R-7	Six Digits 8 7 0 2 2 0 0	1 gal/ seconds = <u>np</u> gpm
R-8	Six Digits 5 2 0 0 1 0	1 gal/ seconds = <u>np</u> gpm
R-9	Six Digits 2 7 5 9 0 0	1 gal/ seconds = <u>np</u> gpm
R-10	Six Digits 5 5 6 7 7 0	1 gal/ seconds = <u>np</u> gpm
R-11	Seven Digits 1 6 8 1 1 6 0	1 gal/ seconds = <u>np</u> gpm

Are all R wells visible accessible, operating properly and undamaged?

Y N (describe below)

Are well boxes locked and undamaged?

Y N (describe below)

Are all re-infiltration points free from overflowing water?

Y N (describe below)

Are all nearby P wells visible, accessible and undamaged?

Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4166

Fax: (503) 648-6383

INSPECTED BY: Neil Thutt

DATE: 5/16/08

TIME: 1:00

GROUNDWATER TREATMENT SYSTEM Eight Digits

Flow from Wells	Total Flow:	1	0	2	9	0	0	0	gallons	Flow Rate:	5 gal/	seconds =	np	gpm	
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)												
Bag Filter 1 Pressure	Before:	10	psi						After:	10	psi				
Bag Filter 2 Pressure	Before:	10	psi						After:	5	psi				
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)															
Transfer Pump Flow	Total Flow:								gallons	Flow Rate:	5 gal/	seconds =	np	gpm	
Carbon Series 1 Pressure	Before:	5	psi						After:	0	psi				
Carbon Series 2 Pressure	Before:	5	psi						After:	0	psi				
Carbon Series 3 Pressure	Before:	5	psi						After:	0	psi				
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)															
Flow to Infiltration Unit	Total Flow:	3	6	7	4	5	5	1	6	gallons	Flow Rate:	5 gal/	seconds =	11.5	gpm

Eight Digits

~~36079510~~

5 gal/ 27.0 sec
5 gal/ 25.6 sec
5 gal/ 25.9 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 6 7 4 0 5 0	1 gal/ seconds = np gpm
R-2	Six Digits: 5 6 9 6 8 8	1 gal/ seconds = np gpm
R-3	Six Digits: 7 9 6 8 6 0	1 gal/ seconds = np gpm
R-4	Seven Digits: 4 7 8 1 9 4 0	1 gal/ seconds = np gpm
R-5	Seven Digits: 5 9 5 4 2 4 0	1 gal/ seconds = np gpm
R-6	Oil/Water Separator Operating? Y N	Oil Tank Full Y N
R-7	Six Digits: 8 0 6 5 7 0	1 gal/ seconds = np gpm
R-8	Six Digits: 5 2 1 3 9 0	1 gal/ seconds = np gpm
R-9	Six Digits: 2 7 6 9 2 0	1 gal/ seconds = np gpm
R-10	Six Digits: 5 6 1 7 2 0	1 gal/ seconds = np gpm
R-11	Seven Digits: 1 6 8 3 0 9 0	1 gal/ seconds = np gpm

Are all R wells visible, accessible, operating properly and undamaged?

Y N (describe below)

Are well boxes locked and undamaged?

Y N (describe below)

Are all re-infiltration points free from overflowing water?

Y N (describe below)

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Butler
checked by et

DATE: 6/18/08
TIME: 12:45

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	0	6	5	3	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: If not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	<u>Not</u>								gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Carbon Series 1 Pressure	Before:									psi	After:	psi
Carbon Series 2 Pressure	Before:	<u>Run 169</u>								psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	6	7	7	7	9	3	0	gallons	Flow Rate: 5 gal/	seconds = <u>13.0</u> gpm

Eight Digits

5.3911 23.3 sec
5.351 23.8 sec
5.341 22.5 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 6 7 9 4 7 0	1 gal/ seconds = <u>np</u> gpm
R-2	Six Digits <u>flowmeter broken: broke</u>	1 gal/ seconds = <u>np</u> gpm
R-3	Six Digits 8 0 1 8 9 0	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits 4 7 8 8 6 0 0	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits 5 8 6 1 5 2 0	1 gal/ seconds = <u>np</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full Y <u>N</u>
R-7	Six Digits 8 7 0 9 2 8 0	1 gal/ seconds = <u>np</u> gpm
R-8	Six Digits 5 2 2 1 8 0	1 gal/ seconds = <u>np</u> gpm
R-9	Six Digits 2 7 7 5 7 0	1 gal/ seconds = <u>np</u> gpm
R-10	Six Digits 5 5 9 8 7 0	1 gal/ seconds = <u>np</u> gpm
R-11	Seven Digits 1 6 8 4 3 1 0	1 gal/ seconds = <u>np</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

R-2 flowmeter broken

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thut
checked by it

DATE: 6/20/08
TIME: 12:20

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	1	0	3	9	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>10</u> gpm
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	<u>NOT</u>								gallons	Flow Rate: 5 gal/	seconds = <u>10</u> gpm
Carbon Series 1 Pressure	Before:	<u>Running</u>								psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	6	8	1	2	6	3	0	gallons	Flow Rate: 5 gal/	seconds = <u>10.9</u> gpm

Eight Digits

5 gal 28.1 sec
5 gal 28.8 sec
5 gal 26.8 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>10</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>10</u> gpm
R-3	Six Digits	1 gal/ seconds = <u>10</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>10</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>10</u> gpm
R-6	Oil/Water Separator Operating? <u>(Y)</u> N	Oil Tank Full <u>Y</u> (N)
R-7	Six Digits	1 gal/ seconds = <u>10</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>10</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>10</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>10</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>10</u> gpm

Are all R wells visible, accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible accessible, and undamaged?

(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thutt

DATE: 6/23/08

TIME: 12:45

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	1	5	9	0	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>mp</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	<u>NOT</u>								gallons	Flow Rate: 5 gal/	seconds = <u>10</u> gpm
Carbon Series 1 Pressure	Before:	<u>Running</u>								psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	6	8	6	3	7	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>12.0</u> gpm

Eight Digits

5 gal 24.8 sec
5 gal 24.9 sec
5 gal 24.9 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>mp</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-3	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>mp</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>mp</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full <u>Y</u> (N)
R-7	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>mp</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Nest Thrutt
checked by et

DATE: 6/24/08
TIME: 12:55

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	1	7	8	4	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>11</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:									gallons	Flow Rate: 5 gal/	seconds = <u>11</u> gpm
Carbon Series 1 Pressure	Before:	<u>NOT</u>								psi	After:	psi
Carbon Series 2 Pressure	Before:	<u>RUNNING</u>								psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	6	8	8	0	2	0	0	gallons	Flow Rate: 5 gal/ <u>25</u>	seconds = <u>12</u> gpm

Eight Digits

5 gal 24.0 sec
5 gal 24.7 sec
5 gal 26.8 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 6 9 7 9 3 0	1 gal/ seconds = <u>11</u> gpm
R-2	Six Digits 5 9 1 0 4 9	1 gal/ seconds = <u>11</u> gpm
R-3	Six Digits 8 1 6 7 7 0	1 gal/ seconds = <u>11</u> gpm
R-4	Seven Digits 4 0 1 0 1 0 0	1 gal/ seconds = <u>11</u> gpm
R-5	Seven Digits 5 9 8 3 6 4 0	1 gal/ seconds = <u>11</u> gpm
R-6	Oil/Water Separator Operating? <u>(Y)</u> N	Oil Tank Full Y <u>(N)</u>
R-7	Six Digits 8 1 7 6 6 0	1 gal/ seconds = <u>11</u> gpm
R-8	Six Digits 5 2 4 6 7 0	1 gal/ seconds = <u>11</u> gpm
R-9	Six Digits 2 7 9 4 9 0	1 gal/ seconds = <u>11</u> gpm
R-10	Six Digits 5 7 4 6 5 0	1 gal/ seconds = <u>11</u> gpm
R-11	Seven Digits 1 6 0 7 8 7 0	1 gal/ seconds = <u>11</u> gpm

Are all R wells visible accessible, operating properly and undamaged?

(Y) N (describe below)

Are well boxes locked and undamaged?

(Y) N (describe below)

Are all re-infiltration points free from overflowing water?

(Y) N (describe below)

Are all nearby P wells visible, accessible and undamaged?

(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Neil Thuff
checked by [signature]

DATE:

6/25/08

TIME:

12:30

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	1	9	7	0	0	0	gallons	Flow Rate: 5 gal/	seconds = <i>np</i> gpm
Chlorine Dosage Rate	4	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	<i>NOT</i>								gallons	Flow Rate: 5 gal/	seconds = <i>np</i> gpm
Carbon Series 1 Pressure	Before:	<i>Running</i>								psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	6	8	9	6	8	8	0	gallons	Flow Rate: 5 gal/ <i>268</i>	seconds = <i>12.1</i> gpm

Eight Digits

5 gal/ 123.2 sec
5 gal/ 24.8 sec
5 gal/ 24.9 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 6 9 6 2 0 0	1 gal/ seconds = <i>np</i> gpm
R-2	Six Digits: 5 9 2 1 4 8	1 gal/ seconds = <i>np</i> gpm
R-3	Six Digits: 8 1 8 9 8 0	1 gal/ seconds = <i>np</i> gpm
R-4	Seven Digits: 4 8 1 3 3 7 0	1 gal/ seconds = <i>np</i> gpm
R-5	Seven Digits: 5 9 8 7 0 9 0	1 gal/ seconds = <i>np</i> gpm
R-6	Oil/Water Separator Operating? <i>no</i> Y N Oil Tank Full Y N	
R-7	Six Digits: 8 1 8 9 5 0	1 gal/ seconds = <i>np</i> gpm
R-8	Six Digits: 5 2 5 0 5 0	1 gal/ seconds = <i>np</i> gpm
R-9	Six Digits: 2 7 7 7 9 0	1 gal/ seconds = <i>np</i> gpm
R-10	Six Digits: 5 7 6 1 2 0	1 gal/ seconds = <i>np</i> gpm
R-11	Seven Digits: 1 6 8 8 4 4 0	1 gal/ seconds = <i>np</i> gpm

Are all R wells visible accessible operating properly and undamaged?

(Y)

N (describe below)

Are well boxes locked and undamaged?

(Y)

N (describe below)

Are all re-infiltration points free from overflowing water?

(Y)

N (describe below)

Are all nearby P wells visible, accessible, and undamaged?

(Y)

N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Will Thut
checked by et

DATE: 6/26/08
TIME: 12:30

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	2	1	5	1	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>1.0</u> gpm		
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)											
Bag Filter 1 Pressure	Before:	psi										After:	psi	
Bag Filter 2 Pressure	Before:	psi										After:	psi	
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)											
Transfer Pump Flow	Total Flow:	<u>100</u>								gallons	Flow Rate: 5 gal/	seconds = <u>1.0</u> gpm		
Carbon Series 1 Pressure	Before:	psi										After:	psi	
Carbon Series 2 Pressure	Before:	<u>Running</u>										psi	After:	psi
Carbon Series 3 Pressure	Before:	psi										After:	psi	
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)											
Flow to Infiltration Unit	Total Flow:	3	6	9	1	3	1	6	0	gallons	Flow Rate: 5 gal/	seconds = <u>11.9</u> gpm		

Eight Digits

5 gal/ 25.0 sec
5 gal/ 25.2 sec
5 gal/ 25.2 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>1.0</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>1.0</u> gpm
R-3	Six Digits	1 gal/ seconds = <u>1.0</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>1.0</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>1.0</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full <u>Y</u> N
R-7	Six Digits	1 gal/ seconds = <u>1.0</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>1.0</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>1.0</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>1.0</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>1.0</u> gpm

Are all R wells visible accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

Rynn says a hole burst through one of the
GAC tanks and one "bank" of the carbon is
temporarily down until he can get it patched.

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thurt
checked by et

DATE: 6/27/08
TIME: 12:30

GROUNDWATER TREATMENT SYSTEM Eight Digits

Flow from Wells	Total Flow:	1	5	2	3	3	1	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	<u>NOT</u>								gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Carbon Series 1 Pressure	Before:									psi	After:	psi
Carbon Series 2 Pressure	Before:	<u>Running</u>								psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	6	9	2	9	0	9	0	gallons	Flow Rate: 5 gal/	seconds = <u>11.1</u> gpm

Eight Digits

5 gal 26.9 1 sec
5 gal 27.0 1 sec
5 gal 26.6 1 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 7 6 0 0 5 8 0	1 gal/ seconds = <u>np</u> gpm
R-2	Six Digits: 5 9 4 6 6 8	1 gal/ seconds = <u>np</u> gpm
R-3	Six Digits: 8 2 3 2 8 0	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits: 4 0 2 0 0 1 0	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits: 5 9 9 3 9 1 0	1 gal/ seconds = <u>np</u> gpm
R-6	Oil/Water Separator Operating? Y N	Oil Tank Full Y N
R-7	Six Digits: 8 2 1 5 3 0	1 gal/ seconds = <u>np</u> gpm
R-8	Six Digits: 5 2 5 8 3 0	1 gal/ seconds = <u>np</u> gpm
R-9	Six Digits: 2 8 0 4 1 0	1 gal/ seconds = <u>np</u> gpm
R-10	Six Digits: 5 7 8 9 9 0	1 gal/ seconds = <u>np</u> gpm
R-11	Seven Digits: 1 6 8 9 6 1 0	1 gal/ seconds = <u>np</u> gpm

Are all R wells visible, accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)

COMMENTS

replaced lock on R-2

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Will Thut

DATE: 7/15/06

TIME: 12:45

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	2	8	5	4	0	gallons	Flow Rate:	5 gal/	seconds = <u>np</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: If not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:								psi	After:	psi	
Bag Filter 2 Pressure	Before:								psi	After:	psi	
All Bag Filters below 30 psi? Y N (NOTE: If greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	<u>NO</u>							gallons	Flow Rate:	5 gal/	seconds = <u>np</u> gpm
Carbon Series 1 Pressure	Before:	<u>running</u>							psi	After:	psi	
Carbon Series 2 Pressure	Before:								psi	After:	psi	
Carbon Series 3 Pressure	Before:								psi	After:	psi	
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	6	4	7	7	5	7	0	gallons	Flow Rate:	5 gal/220 seconds = <u>0.0</u> gpm

Eight Digits

55011 23.8 1sec
55011 23.5 1sec
55011 22.5 1sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 7 0 7 9 9 0	1 gal/ seconds = <u>np</u> gpm
R-2	Six Digits 5 9 8 2 5 7	1 gal/ seconds = <u>np</u> gpm
R-3	Six Digits 8 2 9 3 7 0	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits 4 8 2 9 3 7 0	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits 6 8 0 0 3 9 2 0	1 gal/ seconds = <u>np</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> <u>N</u>	Oil Tank Full? <u>Y</u> <u>N</u>
R-7	Six Digits 8 2 5 3 0 0	1 gal/ seconds = <u>np</u> gpm
R-8	Six Digits 5 2 6 9 5 0	1 gal/ seconds = <u>np</u> gpm
R-9	Six Digits 2 8 1 3 5 0	1 gal/ seconds = <u>np</u> gpm
R-10	Six Digits 5 8 3 1 0 0	1 gal/ seconds = <u>np</u> gpm
R-11	Seven Digits 1 6 4 1 3 8 0	1 gal/ seconds = <u>np</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

(Y) N (describe below)

Are well boxes locked and undamaged?

(Y) N (describe below)

Are all re-infiltration points free from overflowing water?

(X) N (describe below)

Are all nearby P wells visible, accessible and undamaged?

(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thatt

checked by st.

DATE: 7/16/08

TIME: 7:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	3	0	6	6	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>1.0</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?		Y	N	(NOTE: if greater than 30 psi, contact management)								
Transfer Pump Flow	Total Flow:	<u>not R.W. high</u>								gallons	Flow Rate: 5 gal/	seconds = <u>1.0</u> gpm
Carbon Series 1 Pressure	Before:									psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?		Y	N	(NOTE: if greater than 15 psi, contact management)								
Flow to Infiltration Unit	Total Flow:	3	6	9	9	9	9	0	0	gallons	Flow Rate: 5 gal/22	seconds = <u>13.6</u> gpm

Eight Digits

5 gal 22.4 1sec
5 gal 21.6 1sec
3 gal 22.2 1sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 7 0 9 4 0 0	1 gal/ seconds = <u>np</u> gpm
R-2	Six Digits 5 9 9 6 7 2	1 gal/ seconds = <u>np</u> gpm
R-3	Six Digits 8 3 1 8 1 0	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits 4 8 3 1 7 0 0	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits 6 0 0 7 9 4 0	1 gal/ seconds = <u>np</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> <u>N</u>	Oil Tank Full <u>Y</u> <u>(N)</u>
R-7	Six Digits 8 2 6 7 5 0	1 gal/ seconds = <u>np</u> gpm
R-8	Six Digits 5 2 7 3 8 0	1 gal/ seconds = <u>np</u> gpm
R-9	Six Digits 2 8 1 6 7 0	1 gal/ seconds = <u>np</u> gpm
R-10	Six Digits 5 8 4 0 7 0	1 gal/ seconds = <u>np</u> gpm
R-11	Seven Digits 1 6 9 2 0 1 0	1 gal/ seconds = <u>np</u> gpm

Are all R wells visible, accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible and undamaged?

(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thutt

checked by st

DATE: 7/18/08

TIME: 1:15

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1 5 3 4 5 4 0 0	gallons	Flow Rate: 5 gal/	seconds = <u>wp</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)		
Bag Filter 1 Pressure	Before:		psi	After:	psi
Bag Filter 2 Pressure	Before:		psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)		
Transfer Pump Flow	Total Flow:	<u>not</u>	gallons	Flow Rate: 5 gal/	seconds = <u>wp</u> gpm
Carbon Series 1 Pressure	Before:	<u>Running</u>	psi	After:	psi
Carbon Series 2 Pressure	Before:		psi	After:	psi
Carbon Series 3 Pressure	Before:		psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)		
Flow to Infiltration Unit	Total Flow:	3 1 0 3 2 0 1 0	gallons	Flow Rate: 5 gal/21	seconds = <u>11.1</u> gpm

☒ Eight Digits

*Small 27.1 sec
Small 26.7 sec
Small 27.7 sec*

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 7 1 3 9 7 0	1 gal/ seconds = <u>wp</u> gpm
R-2	Six Digits 5 0 2 3 5 3	1 gal/ seconds = <u>wp</u> gpm
R-3	Six Digits 8 3 5 5 4 0	1 gal/ seconds = <u>wp</u> gpm
R-4	Seven Digits 4 8 3 8 1 5 0	1 gal/ seconds = <u>wp</u> gpm
R-5	Seven Digits 6 0 1 5 3 2 0	1 gal/ seconds = <u>wp</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full <u>Y</u> N
R-7	Six Digits 8 2 9 3 5 0	1 gal/ seconds = <u>wp</u> gpm
R-8	Six Digits 5 2 8 1 4 0	1 gal/ seconds = <u>wp</u> gpm
R-9	Six Digits 2 8 2 2 9 0	1 gal/ seconds = <u>wp</u> gpm
R-10	Six Digits 5 8 7 8 4 0	1 gal/ seconds = <u>wp</u> gpm
R-11	Seven Digits 1 6 9 3 1 8 0	1 gal/ seconds = <u>wp</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

☒ Y N (describe below)

Are well boxes locked and undamaged?

☒ Y N (describe below)

Are all re-infiltration points free from overflowing water?

☒ Y N (describe below)

Are all nearby P wells visible, accessible, and undamaged?

☒ Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thut
checked by [signature]

DATE: 7/21/08
TIME: 12:45

GROUNDWATER TREATMENT SYSTEM

Flow from Wells	Total Flow:	1	5	4	0	1	6	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>100</u> gpm
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	<u>not</u>								gallons	Flow Rate: 5 gal/	seconds = <u>100</u> gpm
Carbon Series 1 Pressure	Before:	<u>Running</u>								psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	7	0	8	4	5	4	0	gallons	Flow Rate: 5 gal/	seconds = <u>116</u> gpm

Eight Digits

5 gal 20.2 sec
5 gal 20.1 sec
5 gal 21.1 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>100</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>100</u> gpm
R-3	Six Digits	1 gal/ seconds = <u>100</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>100</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>100</u> gpm
R-6	Oil/Water Separator Operating? (Y, N)	Oil Tank Full Y (N)
R-7	Six Digits	1 gal/ seconds = <u>100</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>100</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>100</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>100</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>100</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thut
checked by it

DATE: 7/23/08
TIME: 1:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	9	3	8	2	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	<u>Not</u>								gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Carbon Series 1 Pressure	Before:	<u>Running</u>								psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	7	1	1	8	6	9	0	gallons	Flow Rate: 5 gal/21	seconds = <u>11.5</u> gpm

Eight Digits

5 gal 26.8 sec
5 gal 26.5 sec
5 gal 22.6 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>np</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-3	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>np</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full Y <u>N</u>
R-7	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>np</u> gpm

Are all R wells visible, accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Neil Thutt

checked by et

DATE:

7/28/08

TIME:

12:36

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	5	2	8	4	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:									gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Carbon Series 1 Pressure	Before:	<u>not</u>								psi	After:	psi
Carbon Series 2 Pressure	Before:	<u>reading</u>								psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	7	2	0	3	1	1	0	gallons	Flow Rate: 5 gal/21	seconds = <u>14.3</u> gpm

Eight Digits

5 gal 20.5 sec
3 gal 20.4 sec
5 gal 21.3 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>np</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-3	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>np</u> gpm
R-6	Oil/Water Separator Operating? Y N	Oil Tank Full Y N
R-7	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>np</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>np</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Y

N

(describe below)

Are well boxes locked and undamaged?

Y

N

(describe below)

Are all re-infiltration points free from overflowing water?

Y

N

(describe below)

Are all nearby P wells visible, accessible, and undamaged?

Y

N

(describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Neil Thutt
checked by et

DATE:

7/30/08

TIME:

1:07

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	3	6	4	8	0	0	gallons	Flow Rate:	5 gal/	seconds =	np	gpm	
Chlorine Dosage Rate	4	0	(NOTE: if not at 4 or 5, contact management)													
Bag Filter 1 Pressure	Before:									psi	After:					psi
Bag Filter 2 Pressure	Before:									psi	After:					psi
All Bag Filters below 30 psi?		Y	N	(NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	NOT								gallons	Flow Rate:	5 gal/	seconds =	np	gpm	
Carbon Series 1 Pressure	Before:									psi	After:					psi
Carbon Series 2 Pressure	Before:	Rw/hg								psi	After:					psi
Carbon Series 3 Pressure	Before:									psi	After:					psi
All Carbon Pressures below 15 psi?		Y	N	(NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	7	2	3	7	0	0	0	gallons	Flow Rate:	5 gal/195	seconds =	10.2	gpm	

Eight Digits

3 gal 30.0 sec
5 gal 26.8 sec
5 gal 29.7 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = np gpm
R-2	Six Digits	1 gal/ seconds = np gpm
R-3	Six Digits	1 gal/ seconds = np gpm
R-4	Seven Digits	1 gal/ seconds = np gpm
R-5	Seven Digits	1 gal/ seconds = np gpm
R-6	Oil/Water Separator Operating? (Y) N	Oil Tank Full Y (N)
R-7	Six Digits	1 gal/ seconds = np gpm
R-8	Six Digits	1 gal/ seconds = np gpm
R-9	Six Digits	1 gal/ seconds = np gpm
R-10	Six Digits	1 gal/ seconds = np gpm
R-11	Seven Digits	1 gal/ seconds = np gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

DATE: 8/1/08

TIME:

GROUNDWATER TREATMENT SYSTEM

Eight Digits

GROUNDWATER TREATMENT SYSTEM									
Flow from Wells	Total Flow:	1	5	600	10	gallons	Flow Rate: 5 gal/	seconds = 40	gpm
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)						
Bag Filter 1 Pressure	Before:					psi	After:		
Bag Filter 2 Pressure	Before:					psi	After:		
All Bag Filters below 30 psi?		Y	N	(NOTE: if greater than 30 psi, contact management)					
Transfer Pump Flow	Total Flow:					gallons	Flow Rate: 5 gal/	seconds = 40	gpm
Carbon Series 1 Pressure	Before:	NOT RUNNING				psi	After:		
Carbon Series 2 Pressure	Before:					psi	After:		
Carbon Series 3 Pressure	Before:					psi	After:		
All Carbon Pressures below 15 psi?		Y	N	(NOTE: if greater than 15 psi, contact management)					
Flow to Infiltration Unit	Total Flow:	3	7	270	120	gallons	Flow Rate: 5 gal/22	seconds = 13.6	gpm

Eight Digits

5911 20.4000

SSa 2.1.6.7cc

55911 22.3 (500)

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)										Flow Rate (gpm) or Not Pumping (np)	
R-1	Seven Digits				3	7	4	6	2	5	0	1 gal/ seconds = np gpm
R-2	Six Digits					6	2	1	0	1	4	1 gal/ seconds = np gpm
R-3	Six Digits					8	6	4	0	4	0	1 gal/ seconds = np gpm
R-4	Seven Digits				4	8	8	9	3	6	0	1 gal/ seconds = np gpm
R-5	Seven Digits				6	0	5	8	3	7	0	1 gal/ seconds = np gpm
R-6	Oil/Water Separator Operating? ☒ N										Oil Tank Full	☒ N
R-7	Six Digits					8	4	7	1	8	0	1 gal/ seconds = np gpm
R-8	Six Digits					5	7	3	0	9	0	1 gal/ seconds = np gpm
R-9	Six Digits					2	8	6	3	2	0	1 gal/ seconds = np gpm
R-10	Six Digits					6	0	9	7	9	0	1 gal/ seconds = np gpm
R-11	Seven Digits				1	4	0	1	0	2	0	1 gal/ seconds = np gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

	N	(describe below)
	N	(describe below)
	N	(describe below)
	N	(describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thutt
checked by [signature]

DATE: 8/4/08
TIME: 1:02

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	6	5	3	7	0	gallons	Flow Rate: 5 gal/	seconds = <u>wp</u> gpm	
Chlorine Dosage Rate	4	5	(NOTE: If not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: If greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:									gallons	Flow Rate: 5 gal/	seconds = <u>wp</u> gpm
Carbon Series 1 Pressure	Before:	<u>Not Running</u>								psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi? Y N (NOTE: If greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	7	3	2	0	2	7	0	gallons	Flow Rate: 5 gal/28	seconds = <u>10.7</u> gpm

Eight Digits

5 gal/ 28.1 sec
5 gal/ 29.9 sec
5 gal/ 25.5 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 7 5 4 5 8 0	1 gal/ seconds = <u>wp</u> gpm
R-2	Six Digits 6 2 5 3 1 4	1 gal/ seconds = <u>np</u> gpm
R-3	Six Digits 8 6 4 4 0 0	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits 4 9 0 3 3 9 0	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits 6 0 8 1 2 7 0	1 gal/ seconds = <u>gpm</u>
R-6	Oil/Water Separator Operating? <u>Y</u> N Oil Tank Full Y (N)	
R-7	Six Digits 8 6 1 6 6 0	1 gal/ seconds = <u>wp</u> gpm
R-8	Six Digits 5 3 4 2 3 0	1 gal/ seconds = <u>wp</u> gpm
R-9	Six Digits 2 8 7 1 9 0	1 gal/ seconds = <u>wp</u> gpm
R-10	Six Digits 6 1 5 2 0 0	1 gal/ seconds = <u>wp</u> gpm
R-11	Seven Digits 1 7 0 2 6 4 0	1 gal/ seconds = <u>wp</u> gpm

Are all R wells visible, accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: *WGT*

DATE: *9/16/08*

TIME: *1:15*

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	6	8	8	2	0	0	gallons	Flow Rate: 5 gal/	seconds = <i>wp</i> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:	10	psi							After:	10	psi
Bag Filter 2 Pressure	Before:	10	psi							After:	10	psi
All Bag Filters below 30 psi?	(Y)	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:									gallons	Flow Rate: 5 gal/	seconds = <i>wp</i> gpm
Carbon Series 1 Pressure	Before:	5	psi							After:		psi
Carbon Series 2 Pressure	Before:	10	psi							After:	10	psi
Carbon Series 3 Pressure	Before:	10	psi							After:	10	psi
All Carbon Pressures below 15 psi?	(Y)	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	7	3	7	3	7	3	7	gallons	Flow Rate: 5 gal/	seconds = <i>12.5</i> gpm

Eight Digits

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 7 5 9 9 5 0	1 gal/ seconds = <i>wp</i> gpm
R-2	Six Digits: 2 8 1 3 7	1 gal/ seconds = <i>wp</i> gpm
R-3	Six Digits: 8 6 4 4 0 0	1 gal/ seconds = <i>wp</i> gpm
R-4	Seven Digits: 4 9 1 2 4 5 0	1 gal/ seconds = <i>wp</i> gpm
R-5	Seven Digits: 6 0 2 9 2 5 0	1 gal/ seconds = <i>wp</i> gpm
R-6	Oil/Water Separator Operating? (Y) N	Oil Tank Full (Y) N
R-7	Six Digits: 8 5 4 5 4 0	1 gal/ seconds = <i>wp</i> gpm
R-8	Six Digits: 5 1 4 9 5 0	1 gal/ seconds = <i>wp</i> gpm
R-9	Six Digits: 2 8 7 1 5 0	1 gal/ seconds = <i>wp</i> gpm
R-10	Six Digits: 6 1 8 6 2 0	1 gal/ seconds = <i>wp</i> gpm
R-11	Seven Digits: 1 7 0 1 6 7 0	1 gal/ seconds = <i>wp</i> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible accessible and undamaged?

(Y) N (describe below)

(Y) N (describe below)

(Y) N (describe below)

(Y) N (describe below)

COMMENTS

287450?
maybe a mis-read?

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: *WCH*

Thrust
Checked by J

DATE: *8/8/08*

TIME: *12:49*

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	7	2	2	5	0	0	gallons	Flow Rate:	5 gal/	seconds = <i>wp</i> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:									psi	After:	psi	
Bag Filter 2 Pressure	Before:									psi	After:	psi	
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)													
Transfer Pump Flow	Total Flow:	<i>WCH</i>								gallons	Flow Rate:	5 gal/	seconds = <i>wp</i> gpm
Carbon Series 1 Pressure	Before:									psi	After:	psi	
Carbon Series 2 Pressure	Before:	<i>Running</i>								psi	After:	psi	
Carbon Series 3 Pressure	Before:									psi	After:	psi	
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)													
Flow to Infiltration Unit	Total Flow:	3	8	3	8	4	5	0	0	gallons	Flow Rate:	5 gal/ 22	seconds = <i>13.6</i> gpm

7 Eight Digits

5 gal 20.8 sec
5 gal 22.7 sec
5 gal 22.0 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	3 7 6 5 3 5 0
R-2	Six Digits	6 4 1 0 9 3 8
R-3	Six Digits	8 6 4 4 0 0
R-4	Seven Digits	4 2 1 4 2 0
R-5	Seven Digits	5 0 9 1 2 0 0
R-6	Oil/Water Separator Operating? Y N Oil Tank Full Y N	
R-7	Six Digits	8 5 7 3 9 0
R-8	Six Digits	5 3 5 7 0 0
R-9	Six Digits	2 8 8 3 1 0
R-10	Six Digits	6 2 1 9 6 0
R-11	Seven Digits	1 8 0 4 6 8 0

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

I keep finding R-3 lock
always on the fence when I do
the wells

(Ryan is working on R-3 - new pump)

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Neil Thwait

checked by [signature]

DATE: *01/11/08*

TIME: *1:17*

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	7	7	5	1	0	0	gallons	Flow Rate: 5 gal/	seconds = <i>40</i> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:	5	psi							After:	10	psi
Bag Filter 2 Pressure	Before:	10	psi							After:	5	psi
All Bag Filters below 30 psi?	(Y) N	(NOTE: if greater than 30 psi, contact management)										
Transfer Pump Flow	Total Flow:	gallons								Flow Rate: 5 gal/	seconds = <i>40</i> gpm	
Carbon Series 1 Pressure	Before:	5	psi							After:	5	psi
Carbon Series 2 Pressure	Before:	10	psi							After:	5	psi
Carbon Series 3 Pressure	Before:	10	psi							After:	5	psi
All Carbon Pressures below 15 psi?	(Y) N	(NOTE: if greater than 15 psi, contact management)										
Flow to Infiltration Unit	Total Flow:	3	6	4	2	3	1	6	0	gallons	Flow Rate: 5 gal/	seconds = <i>10.3</i> gpm

7 Eight Digits

5 gal 28.5 YRC
3 gal 29.6 YRC
3 gal 29.1 YRC

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 6 7 3 4 4 0	1 gal/ seconds = <i>40</i> gpm
R-2	Six Digits: 0 1 3 5 1 6 9	1 gal/ seconds = <i>40</i> gpm
R-3	Six Digits: 0 0 0 4 3 6	1 gal/ seconds = <i>40</i> gpm
R-4	Seven Digits: 4 7 3 4 1 7 0	1 gal/ seconds = <i>40</i> gpm
R-5	Seven Digits: 6 4 0 0 0 8 7 0	1 gal/ seconds = <i>40</i> gpm
R-6	Oil/Water Separator Operating? (Y) N	Oil Tank Full (Y) N
R-7	Six Digits: 8 6 1 6 5 0	1 gal/ seconds = <i>40</i> gpm
R-8	Six Digits: 5 3 6 8 0 0	1 gal/ seconds = <i>40</i> gpm
R-9	Six Digits: 2 9 9 1 3 0	1 gal/ seconds = <i>40</i> gpm
R-10	Six Digits: 6 8 2 7 6 1 0	1 gal/ seconds = <i>40</i> gpm
R-11	Seven Digits: 1 6 0 6 2 1 0	1 gal/ seconds = <i>40</i> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)

COMMENTS

R-3 got a new pump and a new flowmeter today

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4158

Fax: (503) 648-6383

INSPECTED BY: weil Thutt

DATE: 8/12/08

TIME: 1:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	1	1	7	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>11</u> gpm
Chlorine Dosage Rate	4	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:								psi	After:	psi
Bag Filter 2 Pressure	Before:	<u>not</u>							psi	After:	psi
All Bag Filters below 30 psi?		Y	N	(NOTE: if greater than 30 psi, contact management)							
Transfer Pump Flow	Total Flow:	<u>running</u>							gallons	Flow Rate: 5 gal/	seconds = <u>11</u> gpm
Carbon Series 1 Pressure	Before:								psi	After:	psi
Carbon Series 2 Pressure	Before:								psi	After:	psi
Carbon Series 3 Pressure	Before:								psi	After:	psi
All Carbon Pressures below 15 psi?		Y	N	(NOTE: if greater than 15 psi, contact management)							
Flow to Infiltration Unit	Total Flow:	3	7	4	4	9	0	0	gallons	Flow Rate: 5 gal/ 22-seconds = <u>13.6</u> gpm	

Eight Digits

5 gal 21.7 sec
5 gal 23.6 sec
5 gal 21.6 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 7 7 5 6 0 0	1 gal/ seconds = <u>np</u> gpm
R-2	Six Digits 6 3 6 4 0 0	1 gal/ seconds = <u>np</u> gpm
R-3	Six Digits 3 1 0 0 3 1 0 0	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits 4 9 3 0 2 0 0	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits 6 1 7 4 0 5 0	1 gal/ seconds = <u>np</u> gpm
R-6	Oil/Water Separator Operating? <u>N</u>	Oil Tank Full <u>Y</u>
R-7	Six Digits 8 6 2 7 7 0	1 gal/ seconds = <u>np</u> gpm
R-8	Six Digits 5 3 7 1 0 0	1 gal/ seconds = <u>np</u> gpm
R-9	Six Digits 2 8 9 3 7 0	1 gal/ seconds = <u>np</u> gpm
R-10	Six Digits 6 2 9 1 0 0	1 gal/ seconds = <u>np</u> gpm
R-11	Seven Digits 1 7 0 6 6 0 0	1 gal/ seconds = <u>np</u> gpm

Are all R wells visible, accessible operating properly and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Neil Thutt
checked by it

DATE: *8/13/08*

TIME: *12:37*

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	0	0	8	7	0	0	gallons	Flow Rate: 5 gal/	seconds = <i>10</i> gpm
Chlorine Dosage Rate	4 <i>(5)</i>	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	<i>not running</i>								gallons	Flow Rate: 5 gal/	seconds = <i>10</i> gpm
Carbon Series 1 Pressure	Before:									psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	7	4	6	5	0	7	0	gallons	Flow Rate: 5 gal/	seconds = <i>10.0</i> gpm

Eight Digits

Still 30.7 sec
Still 29.8 sec
Still 29.5 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 7 7 7 8 0	1 gal/ seconds = <i>10</i> gpm
R-2	Six Digits 6 8 7 6 9 3	1 gal/ seconds = <i>10</i> gpm
R-3	Four Digits 5 8 7 9 9	1 gal/ seconds = <i>10</i> gpm
R-4	Seven Digits 4 9 4 2 1 8 0	1 gal/ seconds = <i>10</i> gpm
R-5	Seven Digits 6 1 1 5 2 3 0	1 gal/ seconds = <i>10</i> gpm
R-6	Oil/Water Separator Operating? <i>(Y)</i> N Oil Tank Full Y <i>(N)</i>	
R-7	Six Digits 8 6 3 8 8 0	1 gal/ seconds = <i>10</i> gpm
R-8	Six Digits 5 3 1 4 0 0	1 gal/ seconds = <i>10</i> gpm
R-9	Six Digits 2 8 9 6 2 0	1 gal/ seconds = <i>10</i> gpm
R-10	Six Digits 6 5 0 6 0 0	1 gal/ seconds = <i>10</i> gpm
R-11	Seven Digits 1 7 0 7 1 4 0	1 gal/ seconds = <i>10</i> gpm

Are all R wells visible, accessible operating properly and undamaged?

(Y) N (describe below)

Are well boxes locked and undamaged?

(Y) N (describe below)

Are all re-infiltration points free from overflowing water?

(Y) N (describe below)

Are all nearby P wells visible, accessible and undamaged?

(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4086 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thutt
checked by J

DATE: 9/2/08
TIME: 12:30

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	8	9	9	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)								
Bag Filter 1 Pressure	Before:								psi	After:	psi
Bag Filter 2 Pressure	Before:								psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)											
Transfer Pump Flow	Total Flow:								gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm
Carbon Series 1 Pressure	Before:								psi	After:	psi
Carbon Series 2 Pressure	Before:								psi	After:	psi
Carbon Series 3 Pressure	Before:								psi	After:	psi
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)											
Flow to Infiltration Unit	Total Flow:	3	7	5	4	7	9	5	0	gallons	Flow Rate: 5 gal/ <u>25</u> seconds = <u>12.0</u> gpm

Eight Digits

5 gal/ 24.8 sec
5 gal/ 25.2 sec
5 gal/ 26.9 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 7 8 9 0 5 0	1 gal/ seconds = <u>np</u> gpm
R-2	Six Digits 6 4 5 9 2 5	1 gal/ seconds = <u>np</u> gpm
R-3	Five Digits 1 9 7 4 1	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits 4 9 5 7 7 0 0	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits 6 1 3 2 1 1 0	1 gal/ seconds = <u>np</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	
R-7	Six Digits 8 6 7 6 0 0	1 gal/ seconds = <u>np</u> gpm
R-8	Six Digits 5 3 8 9 4 0	1 gal/ seconds = <u>np</u> gpm
R-9	Six Digits 2 9 0 9 2 0	1 gal/ seconds = <u>np</u> gpm
R-10	Six Digits 6 5 7 2 5 0	1 gal/ seconds = <u>np</u> gpm
R-11	Seven Digits 1 7 0 9 6 2 0	1 gal/ seconds = <u>np</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Y N (describe below)

Are well boxes locked and undamaged?

Y N (describe below)

Are all re-infiltration points free from overflowing water?

Y N (describe below)

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)

COMMENTS

R-2 dock 5+ close

told RC about R-2, he fixed it

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thuttt
checked my st

DATE: 9/3/08
TIME: 11:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	5	9	1	2	5	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>40</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	<u>NOT</u>								gallons	Flow Rate: 5 gal/	seconds = <u>40</u> gpm
Carbon Series 1 Pressure	Before:									psi	After:	psi
Carbon Series 2 Pressure	Before:	<u>Running</u>								psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	7	5	6	6	1	2	0	gallons	Flow Rate: 5 gal/23	seconds = <u>13.0</u> gpm

Eight Digits

5 gal 26.7 sec
5 gal 23.2 sec
5 gal 23.2 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>40</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-3	Five Digits	1 gal/ seconds = <u>40</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>40</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>40</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full <u>Y</u> N
R-7	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>40</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thurt

DATE: 9/8/08

TIME: 1:42

GROUNDWATER TREATMENT SYSTEM 6 Eight Digits

Flow from Wells	Total Flow:	1	0	0	2	7	0	0	gallons	Flow Rate:	5 gal/	seconds = <u>40</u> gpm	
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:									psi	After:	psi	
Bag Filter 2 Pressure	Before:									psi	After:	psi	
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)										
Transfer Pump Flow	Total Flow:	<u>not running</u>							gallons	Flow Rate:	5 gal/	seconds = <u>40</u> gpm	
Carbon Series 1 Pressure	Before:									psi	After:	psi	
Carbon Series 2 Pressure	Before:									psi	After:	psi	
Carbon Series 3 Pressure	Before:									psi	After:	psi	
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)										
Flow to Infiltration Unit	Total Flow:	3	7	6	5	3	5	1	0	gallons	Flow Rate:	5 gal/	seconds = <u>13.6</u> gpm

Eight Digits

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>40</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-3	Five Digits	1 gal/ seconds = <u>40</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>40</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>40</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full <u>Y</u> N
R-7	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>40</u> gpm

Are all R wells visible, accessible operating properly and undamaged?

Y N (describe below)

Are well boxes locked and undamaged?

Y N (describe below)

Are all re-infiltration points free from overflowing water?

Y N (describe below)

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thurst
checked by et

DATE: 9/12/08
TIME: 12:20

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	0	7	0	9	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>mp</u> gpm
Chlorine Dosage Rate	4	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	<u>NOT</u>								gallons	Flow Rate: 5 gal/	seconds = <u>mp</u> gpm
Carbon Series 1 Pressure	Before:									psi	After:	psi
Carbon Series 2 Pressure	Before:	<u>Running</u>								psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	7	7	2	0	4	8	0	gallons	Flow Rate: 5 gal/23	seconds = <u>13.0</u> gpm

Eight Digits

5 gal 22.0 sec
5 gal 22.6 sec
5 gal 23.1 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>mp</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-3	Five Digits	1 gal/ seconds = <u>mp</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>mp</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>mp</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> <u>N</u>	Oil Tank Full <u>Y</u> <u>N</u>
R-7	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>mp</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Y N (describe below)

Are well boxes locked and undamaged?

Y N (describe below)

Are all re-infiltration points free from overflowing water?

Y N (describe below)

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Weil Nutt
checked by it

DATE: *9/15/08*

TIME: *12:25*

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	1	1	4	0	5	0	0	gallons	Flow Rate: 5 gal/	seconds = <i>10</i> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:										psi	After:	psi
Bag Filter 2 Pressure	Before:										psi	After:	psi
All Bag Filters below 30 psi?		Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:										gallons	Flow Rate: 5 gal/	seconds = <i>10</i> gpm
Carbon Series 1 Pressure	Before:										psi	After:	psi
Carbon Series 2 Pressure	Before:										psi	After:	psi
Carbon Series 3 Pressure	Before:										psi	After:	psi
All Carbon Pressures below 15 psi?		Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	7	7	6	9	2	7	0		gallons	Flow Rate: 5 gal/	seconds = <i>10.9</i> gpm

Eight Digits

5 gal 27.0 sec
5 gal 28.2 sec
5 gal 27.5 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <i>10</i> gpm
R-2	Six Digits	1 gal/ seconds = <i>10</i> gpm
R-3	Five Digits	1 gal/ seconds = <i>10</i> gpm
R-4	Seven Digits	1 gal/ seconds = <i>10</i> gpm
R-5	Seven Digits	1 gal/ seconds = <i>10</i> gpm
R-6	Oil/Water Separator Operating? <i>Y</i> N	Oil Tank Full Y <i>(N)</i>
R-7	Six Digits	1 gal/ seconds = <i>10</i> gpm
R-8	Six Digits	1 gal/ seconds = <i>10</i> gpm
R-9	Six Digits	1 gal/ seconds = <i>10</i> gpm
R-10	Six Digits	1 gal/ seconds = <i>10</i> gpm
R-11	Seven Digits	1 gal/ seconds = <i>10</i> gpm

Are all R wells visible accessible, operating properly and undamaged?

☒ Y N (describe below)

Are well boxes locked and undamaged?

☒ Y N (describe below)

Are all re-infiltration points free from overflowing water?

☒ Y N (describe below)

Are all nearby P wells visible accessible, and undamaged?

☒ Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Mr. J. Thutt
checked by J. Thutt

DATE: 9/16/08
TIME: 12:38

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	1	3	7	0	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>17</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:									gallons	Flow Rate: 5 gal/	seconds = <u>17</u> gpm
Carbon Series 1 Pressure	Before:	<u>NA</u>								psi	After:	psi
Carbon Series 2 Pressure	Before:	<u>Running</u>								psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	7	7	8	5	2	8	0	gallons	Flow Rate: 5 gal/23	seconds = <u>13.0</u> gpm

Eight Digits

5 sec 11 26.9 lsec
5 sec 11 22.0 lsec
5 sec 11 23.4 lsec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 8 2 3 2 7 0	1 gal/ seconds = <u>17</u> gpm
R-2	Six Digits 6 6 2 0 5 1	1 gal/ seconds = <u>17</u> gpm
R-3	Five Digits 5 8 2 7 9 0	1 gal/ seconds = <u>17</u> gpm
R-4	Seven Digits 5 0 0 8 8 8 0	1 gal/ seconds = <u>17</u> gpm
R-5	Seven Digits 6 1 7 6 7 2 0	1 gal/ seconds = <u>17</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full <u>Y</u> N
R-7	Six Digits 8 6 3 9 9 0	1 gal/ seconds = <u>17</u> gpm
R-8	Six Digits 5 4 3 6 3 0	1 gal/ seconds = <u>17</u> gpm
R-9	Six Digits 2 9 4 5 5 0	1 gal/ seconds = <u>17</u> gpm
R-10	Six Digits 6 5 2 5 5 0	1 gal/ seconds = <u>17</u> gpm
R-11	Seven Digits 1 7 1 6 3 8 0	1 gal/ seconds = <u>17</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Will Thut

DATE: 9/17/08
TIME: 12:38

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1 6 1 1 5 3 1 0 0	gallons	Flow Rate: 5 gal/	seconds = <u>10</u> gpm	
Chlorine Dosage Rate	4 (5)	(NOTE: if not at 4 or 5, contact management)				
Bag Filter 1 Pressure	Before:		psi	After:	psi	
Bag Filter 2 Pressure	Before:		psi	After:	psi	
All Bag Filters below 30 psi?		Y	N	(NOTE: if greater than 30 psi, contact management)		
Transfer Pump Flow	Total Flow:		gallons	Flow Rate: 5 gal/	seconds = <u>10</u> gpm	
Carbon Series 1 Pressure	Before:	<u>100</u>	psi	After:	psi	
Carbon Series 2 Pressure	Before:	<u>100</u>	psi	After:	psi	
Carbon Series 3 Pressure	Before:		psi	After:	psi	
All Carbon Pressures below 15 psi?		Y	N	(NOTE: if greater than 15 psi, contact management)		
Flow to Infiltration Unit	Total Flow:	3 7 8 0 1 9 0 0	gallons	Flow Rate: 5 gal/29	seconds = <u>0.3</u> gpm	

Eight Digits

5 gal 31.5 sec
5 gal 31.0 sec
5 gal 27.3 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 8 2 5 8 5 0	1 gal/ seconds = <u>10</u> gpm
R-2	Six Digits: 6 3 2 8 3	1 gal/ seconds = <u>10</u> gpm
R-3	Five Digits: 6 5 9 4 6	1 gal/ seconds = <u>10</u> gpm
R-4	Seven Digits: 5 0 1 2 5 6 0	1 gal/ seconds = <u>10</u> gpm
R-5	Seven Digits: 6 1 7 9 9 2 0	1 gal/ seconds = <u>10</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full <u>Y</u> N
R-7	Six Digits: 8 8 4 1 5 0	1 gal/ seconds = <u>10</u> gpm
R-8	Six Digits: 5 4 3 9 6 0	1 gal/ seconds = <u>10</u> gpm
R-9	Six Digits: 2 9 8 8 0 0	1 gal/ seconds = <u>10</u> gpm
R-10	Six Digits: 6 5 3 5 1 0	1 gal/ seconds = <u>10</u> gpm
R-11	Seven Digits: 1 7 1 6 8 3 0	1 gal/ seconds = <u>10</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

Ryan says flowmeter on R-7 is broken; he checked it and it is pumping. He needs to buy a new flowmeter

Ryan says that pump owner to west of D & G is dumping some dirt on a shallow just west of R-10 and R-11

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thurst
checked by [signature]

DATE: 9/18/08
TIME: 12:45

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	1	6	9	0	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>wp</u> gpm
Chlorine Dosage Rate	4	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before: <u>10</u>									psi	After: <u>10</u>	psi
Bag Filter 2 Pressure	Before: <u>10</u>									psi	After: <u>5</u>	psi
All Bag Filters below 30 psi?	<u>Y</u> N	(NOTE: if greater than 30 psi, contact management)										
Transfer Pump Flow	Total Flow:									gallons	Flow Rate: 5 gal/	seconds = <u>wp</u> gpm
Carbon Series 1 Pressure	Before: <u>0</u>									psi	After: <u>0</u>	psi
Carbon Series 2 Pressure	Before: <u>5</u>									psi	After: <u>8</u>	psi
Carbon Series 3 Pressure	Before: <u>5</u>									psi	After: <u>5</u>	psi
All Carbon Pressures below 15 psi?	<u>Y</u> N	(NOTE: if greater than 15 psi, contact management)										
Flow to Infiltration Unit	Total Flow:	3	7	8	1	7	5	3	0	gallons	Flow Rate: 5 gal/2	seconds = <u>14.3</u> gpm

Eight Digits

5 gal 21.3 sec
5 gal 20.8 sec
5 gal 21.3 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 8 2 8 2 2 0	1 gal/ seconds = <u>wp</u> gpm
R-2	Six Digits: 6 4 4 8 0	1 gal/ seconds = <u>wp</u> gpm
R-3	Five Digits: 6 8 9 3 3	1 gal/ seconds = <u>wp</u> gpm
R-4	Seven Digits: 5 0 1 5 9 9 0	1 gal/ seconds = <u>wp</u> gpm
R-5	Seven Digits: 6 1 8 2 9 4 0	1 gal/ seconds = <u>wp</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full <u>Y</u> (N)
R-7	Six Digits: 8 8 8 2 7 0	1 gal/ seconds = <u>wp</u> gpm
R-8	Six Digits: 5 4 4 2 5 0	1 gal/ seconds = <u>wp</u> gpm
R-9	Six Digits: 2 9 5 0 4 0	1 gal/ seconds = <u>wp</u> gpm
R-10	Six Digits: 6 5 4 3 7 0	1 gal/ seconds = <u>wp</u> gpm
R-11	Seven Digits: 1 7 1 7 2 6 0	1 gal/ seconds = <u>wp</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4086 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4158

Fax: (503) 648-6383

INSPECTED BY: Neil Truitt
checked by J

DATE: 9/19/08

TIME: 1:30

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow: 1 6 1 0 3 1 0 0	gallons	Flow Rate: 5 gal/	seconds = <u>10</u> gpm	
Chlorine Dosage Rate	4 <u>5</u>	(NOTE: if not at 4 or 5, contact management)			
Bag Filter 1 Pressure	Before: <u>15</u>	psi	After: <u>15</u>	psi	
Bag Filter 2 Pressure	Before: <u>15</u>	psi	After: <u>5</u>	psi	
All Bag Filters below 30 psi?	<u>Y</u> N	(NOTE: if greater than 30 psi, contact management)			
Transfer Pump Flow	Total Flow:	gallons	Flow Rate: 5 gal/	seconds = <u>10</u> gpm	
Carbon Series 1 Pressure	Before: <u>0</u>	psi	After: <u>0</u>	psi	
Carbon Series 2 Pressure	Before: <u>5</u>	psi	After: <u>2</u>	psi	
Carbon Series 3 Pressure	Before: <u>2</u>	psi	After: <u>2</u>	psi	
All Carbon Pressures below 15 psi?	<u>Y</u> N	(NOTE: if greater than 15 psi, contact management)			
Flow to Infiltration Unit	Total Flow: 3 7 0 3 0 5 3 0	gallons	Flow Rate: 5 gal/20.5 seconds = <u>14.6</u> gpm		

Eight Digits

5 gal 20.5 sec
5 gal 21.2 sec
5 gal 20.4 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 8 3 0 1 1 0	1 gal/ seconds = <u>10</u> gpm
R-2	Six Digits: 6 5 3 3 6	1 gal/ seconds = <u>10</u> gpm
R-3	Five Digits: 7 1 3 4 0	1 gal/ seconds = <u>10</u> gpm
R-4	Seven Digits: 5 0 1 8 7 1 0	1 gal/ seconds = <u>10</u> gpm
R-5	Seven Digits: 6 1 8 5 3 1 0	1 gal/ seconds = <u>10</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full <u>Y</u> N
R-7	Six Digits: 8 8 6 1 6 0	1 gal/ seconds = <u>10</u> gpm
R-8	Six Digits: 5 4 4 5 0 0	1 gal/ seconds = <u>10</u> gpm
R-9	Six Digits: 2 9 5 2 6 0	1 gal/ seconds = <u>10</u> gpm
R-10	Six Digits: 6 5 5 2 9 0	1 gal/ seconds = <u>10</u> gpm
R-11	Seven Digits: 1 7 1 7 6 7 0	1 gal/ seconds = <u>10</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thutt

DATE: 9/22/08

TIME: 1:15

GROUNDWATER TREATMENT SYSTEM

Eight Digits 00

Flow from Wells	Total Flow:	1	6	1	9	3	8	5	gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm	
Chlorine Dosage Rate	4	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:								psi	After:	psi	
Bag Filter 2 Pressure	Before:								psi	After:	psi	
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	<u>Not Running</u>							gallons	Flow Rate: 5 gal/	seconds = <u>np</u> gpm	
Carbon Series 1 Pressure	Before:								psi	After:	psi	
Carbon Series 2 Pressure	Before:								psi	After:	psi	
Carbon Series 3 Pressure	Before:								psi	After:	psi	
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	7	0	9	0	8	7	0	gallons	Flow Rate: 5 gal/28.6 seconds = <u>10.5</u> gpm	

Eight Digits

5 gal/ 28.5 /sec
5 gal/ 28.6 /sec
5 gal/ 28.7 /sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 8 3 1 4 0 0	1 gal/ seconds = <u>np</u> gpm
R-2	Six Digits 6 6 3 5 8	1 gal/ seconds = <u>np</u> gpm
R-3	Five Digits 7 3 0 9 8	1 gal/ seconds = <u>np</u> gpm
R-4	Seven Digits 5 0 2 0 3 4 0	1 gal/ seconds = <u>np</u> gpm
R-5	Seven Digits 6 1 8 7 0 7 0	1 gal/ seconds = <u>np</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	Oil Tank Full <u>Y</u> N
R-7	Six Digits 8 0 6 6 7 0	1 gal/ seconds = <u>np</u> gpm
R-8	Six Digits 5 4 4 7 5 0	1 gal/ seconds = <u>np</u> gpm
R-9	Six Digits 2 9 5 5 5 0	1 gal/ seconds = <u>np</u> gpm
R-10	Six Digits 6 5 6 3 3 0	1 gal/ seconds = <u>np</u> gpm
R-11	Seven Digits 1 7 1 0 3 5 0	1 gal/ seconds = <u>np</u> gpm

Are all R wells visible accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST PRESSURE TREATING AND FABRICATED WOOD PRODUCTS	4066 SE TV Highway Hillsboro Oregon 97123 Office: (503) 648-4156 Fax: (503) 648-6383
---	--

INSPECTED BY: Neil Thurtell DATE: 9/23/08
checked by V TIME: 1:07

GROUNDWATER TREATMENT SYSTEM				Eight Digits
Flow from Wells	Total Flow:	1 6 2 0 8 0 0 0	gallons	Flow Rate: 5 gal/ seconds = <u>mp</u> gpm
Chlorine Dosage Rate	4 5	(NOTE: if not at 4 or 5, contact management)		
Bag Filter 1 Pressure	Before:		psi	After:
Bag Filter 2 Pressure	Before:		psi	After:
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)				
Transfer Pump Flow	Total Flow:		gallons	Flow Rate: 5 gal/ seconds = <u>mp</u> gpm
Carbon Series 1 Pressure	Before:	<u>NO</u>	psi	After:
Carbon Series 2 Pressure	Before:	<u>Running</u>	psi	After:
Carbon Series 3 Pressure	Before:		psi	After:
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)				
Flow to Infiltration Unit	Total Flow:	3 7 8 5 7 0 8 0	gallons	Flow Rate: 5 gal/20.7 seconds = <u>14.5</u> gpm

5 gal 20.8 sec
 5 gal 20.7 sec
 5 gal 20.6 sec

RECOVERY WELL SYSTEM			
Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)	
R-1	Seven Digits 3 8 3 3 4 7 0	1 gal/	seconds = <u>mp</u> gpm
R-2	Six Digits 6 6 7 3 0 9	1 gal/	seconds = <u>mp</u> gpm
R-3	Five Digits 7 5 6 4 4	1 gal/	seconds = <u>mp</u> gpm
R-4	Seven Digits 5 0 2 3 0 4 0	1 gal/	seconds = <u>mp</u> gpm
R-5	Seven Digits 6 1 8 9 6 6 0	1 gal/	seconds = <u>mp</u> gpm
R-6	Oil/Water Separator Operating? Y N	Oil Tank Full	Y N
R-7	Six Digits 8 8 7 8 2 0	1 gal/	seconds = <u>mp</u> gpm
R-8	Six Digits 5 4 5 0 2 0	1 gal/	seconds = <u>mp</u> gpm
R-9	Six Digits 2 4 5 7 6 0	1 gal/	seconds = <u>mp</u> gpm
R-10	Six Digits 6 5 7 2 5 0	1 gal/	seconds = <u>mp</u> gpm
R-11	Seven Digits 1 7 1 8 7 0 0	1 gal/	seconds = <u>mp</u> gpm

Are all R wells visible, accessible, operating properly and undamaged? Y N (describe below)
 Are well boxes locked and undamaged? Y N (describe below)
 Are all re-infiltration points free from overflowing water? Y N (describe below)
 Are all nearby P wells visible accessible, and undamaged? Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thutt
checked by JT

DATE: 9/24/08
TIME: _____

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	2	1	0	8	0	0	gallons	Flow Rate:	5 gal/	seconds = <u>mp</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: If not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:									psi	After:		psi
Bag Filter 2 Pressure	Before:									psi	After:		psi
All Bag Filters below 30 psi?		Y	N	(NOTE: If greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	<u>NOT</u>								gallons	Flow Rate:	5 gal/	seconds = <u>mp</u> gpm
Carbon Series 1 Pressure	Before:	<u>running</u>								psi	After:		psi
Carbon Series 2 Pressure	Before:									psi	After:		psi
Carbon Series 3 Pressure	Before:									psi	After:		psi
All Carbon Pressures below 15 psi?		Y	N	(NOTE: If greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	7	8	5	8	7	4	0	gallons	Flow Rate:	5 gal/	seconds = <u>58</u> gpm

Eight Digits

5 gal 18.9 sec
5 gal 19.1 sec
5 gal 19.2 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>mp</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-3	Five Digits <u>76424</u>	1 gal/ seconds = <u>mp</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>mp</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>mp</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N	
R-7	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>mp</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>mp</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Y N (describe below)

Are well boxes locked and undamaged?

Y N (describe below)

Are all re-infiltration points free from overflowing water?

Y N (describe below)

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)

COMMENTS

flows are low for this 24-hr period because
we have to shut down wells in order for
Steve H. to sample (semi-annual
sampling)

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156 Fax: (503) 648-6383

INSPECTED BY: Ver. J

Thru T
checked by J

DATE: 9/25/08

TIME: 1:07

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	2	3	0	2	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>MP</u> gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	<u>NOT</u>								gallons	Flow Rate: 5 gal/	seconds = <u>MP</u> gpm
Carbon Series 1 Pressure	Before:									psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									<u>~120</u>
Flow to Infiltration Unit	Total Flow:	3	7	8	7	5	9	0	0	gallons	Flow Rate: 5 gal/ <u>25</u>	seconds = <u>0</u> gpm

Eight Digits

SS 11 21.2 SEC
SS 11 27.2 SEC
SS 11 28.2 SEC

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)									Flow Rate (gpm) or Not Pumping (np)	
R-1	Seven Digits				3	8	3	6	6	0	1 gal/ seconds = <u>MP</u> gpm
R-2	Six Digits					6	6	9	8	3	1 gal/ <u>85</u> seconds = <u>NP</u> gpm
R-3	Five Digits					7	9	1	3	2	1 gal/ seconds = <u>NP</u> gpm
R-4	Seven Digits				5	0	2	7	3	7	1 gal/ seconds = <u>NP</u> gpm
R-5	Seven Digits				6	1	9	2	6	7	1 gal/ seconds = <u>NP</u> gpm
R-6	Oil/Water Separator Operating? <u>Y</u> N									Oil Tank Full Y <u>N</u>	
R-7	Six Digits					8	9	3	4	0	1 gal/ seconds = <u>NP</u> gpm
R-8	Six Digits					5	4	5	4	6	1 gal/ seconds = <u>NP</u> gpm
R-9	Six Digits					2	9	6	0	7	1 gal/ seconds = <u>NP</u> gpm
R-10	Six Digits					6	5	8	6	0	1 gal/ seconds = <u>NP</u> gpm
R-11	Seven Digits				1	7	1	9	2	8	1 gal/ seconds = <u>NP</u> gpm

1719280

Are all R wells visible, accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

we'll That
checked by et

DATE:

9/29/08

TIME:

1:18

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	3	0	1	0	0	0	gallons	Flow Rate: 5 gal/	seconds = <i>10</i> gpm
Chlorine Dosage Rate	4	5	(NOTE: If not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:									gallons	Flow Rate: 5 gal/	seconds = <i>10</i> gpm
Carbon Series 1 Pressure	Before:	<i>NOT Running</i>								psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	7	9	4	9	7	1	0	gallons	Flow Rate: 5 gal/	seconds = <i>13.9</i> gpm

Eight Digits

55all 21.5 sec
59all 21.4 sec
55all 21.7 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 8 4 6 6 9 0	1 gal/ seconds = <i>10</i> gpm
R-2	Six Digits 6 7 3 9 8 9	1 gal/ seconds = <i>10</i> gpm
R-3	Five Digits 9 3 0 2 3	1 gal/ seconds = <i>10</i> gpm
R-4	Seven Digits 5 0 4 0 9 8 0	1 gal/ seconds = <i>10</i> gpm
R-5	Seven Digits 6 2 0 6 0 6 0	1 gal/ seconds = <i>10</i> gpm
R-6	Oil/Water Separator Operating? Y N	Oil Tank Full Y N
R-7	Six Digits 8 4 4 0 7 0	1 gal/ seconds = <i>10</i> gpm
R-8	Six Digits 5 4 6 7 1 0	1 gal/ seconds = <i>10</i> gpm
R-9	Six Digits 2 9 7 0 6 0	1 gal/ seconds = <i>10</i> gpm
R-10	Six Digits 6 3 0 6 0	1 gal/ seconds = <i>10</i> gpm
R-11	Seven Digits 1 7 2 1 1 5 0	1 gal/ seconds = <i>10</i> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Y
Y
Y
Y

N (describe below)

Are well boxes locked and undamaged?

N (describe below)

Are all re-infiltration points free from overflowing water?

N (describe below)

Are all nearby P wells visible accessible and undamaged?

N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thut

DATE: 9/30/08

TIME: 1:04

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	8	5	1	6	0	0	0	gallons	Flow Rate: 5 gal/	seconds = <u>40</u> gpm
Chlorine Dosage Rate	4	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?		Y		N		(NOTE: if greater than 30 psi, contact management)						
Transfer Pump Flow	Total Flow:									gallons	Flow Rate: 5 gal/	seconds = <u>40</u> gpm
Carbon Series 1 Pressure	Before:	<u>Not running</u>								psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
All Carbon Pressures below 15 psi?		Y		N		(NOTE: if greater than 15 psi, contact management)						
Flow to Infiltration Unit	Total Flow:	3	7	9	5	7	9	8	0	gallons	Flow Rate: 5 gal/20.8	seconds = <u>44.6</u> gpm

Eight Digits

5 gal 20.8 sec
5 gal 20.8 sec
5 gal 20.8 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/ seconds = <u>40</u> gpm
R-2	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-3	Five Digits	1 gal/ seconds = <u>40</u> gpm
R-4	Seven Digits	1 gal/ seconds = <u>40</u> gpm
R-5	Seven Digits	1 gal/ seconds = <u>40</u> gpm
R-6	Oil/Water Separator Operating? Y N	Oil Tank Full Y (N)
R-7	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-8	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-9	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-10	Six Digits	1 gal/ seconds = <u>40</u> gpm
R-11	Seven Digits	1 gal/ seconds = <u>40</u> gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all re-infiltration points free from overflowing water?

Are all nearby P wells visible accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

NP

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thut

DATE: 10/15/08

TIME: 2:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	3	2	1	5	0	0	gallons	Flow Rate:	16	gal/	31	seconds =	2.4	gpm				
Chlorine Dosage Rate	4	(NOTE: if not at 4 or 5, contact management)																			
Bag Filter 1 Pressure	Before:	20								psi	After:	50								psi	
Bag Filter 2 Pressure	Before:	50								psi	After:	5								psi	
All Bag Filters below 30 psi? <u>Y</u> <u>N</u> (NOTE: if greater than 30 psi, contact management)																					
Transfer Pump Flow	Total Flow:									gallons	Flow Rate:	5 gal/								seconds =	gpm
Carbon Series 1 Pressure	Before:	0								psi	After:	0								psi	
Carbon Series 2 Pressure	Before:	0								psi	After:	0								psi	
Carbon Series 3 Pressure	Before:	0								psi	After:	2								psi	
Surge Tank Level	Approx.	720								gallons	Surge Tank Level	270								gallons	
All Carbon Pressures below 15 psi? <u>Y</u> <u>N</u> (NOTE: if greater than 15 psi, contact management)																					
Flow to Infiltration Unit	Total Flow:	3	7	9	6	3	3	9	0	gallons	Flow Rate:	5 gal/	23	seconds =	15.5	gpm					

Eight Digits

5 gal/ 19.9 sec
5 gal/ 18.5 sec
5 gal/ 19.5 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 8 4 9 5 1 0	1 gal/ 23 seconds = 2.6 gpm
R-2	Six Digits: 6 7 5 4 0 6	NP 1 gal/ 18 seconds = gpm
R-3	Five Digits: 9 6 7 7 3	NP 1 gal/ 15 seconds = gpm
R-4	Seven Digits: 5 0 4 4 6 2 0	1 gal/ 15 seconds = 4 gpm
R-5	Seven Digits: 6 2 0 9 5 1 0	1 gal/ 24 seconds = 2.8 gpm
R-6	Oil/Water Separator Operating? <u>Y</u> <u>N</u> Oil Tank Full <u>Y</u> <u>N</u>	
R-7	Six Digits: 8 9 5 3 5 0	NP 1 gal/ 18 seconds = gpm
R-8	Six Digits: 5 4 7 1 0 0	NP 1 gal/ 18 seconds = gpm
R-9	Six Digits: 2 9 7 3 7 0	NP 1 gal/ 18 seconds = gpm
R-10	Six Digits: 6 6 4 1 2 0	NP 1 gal/ 18 seconds = gpm
R-11	Seven Digits: 1 7 2 7 7 1 0	NP 1 gal/ 18 seconds = gpm

Are all R wells visible, accessible operating properly and undamaged?

Y N (describe below)

Are well boxes locked and undamaged?

Y N (describe below)

Are all nearby P wells visible, accessible and undamaged?

Y N (describe below)

COMMENTS

field Ryan That bag pressures were high 10/15/08

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Weir

thrift
checked by

DATE: 10/16/08

TIME: 2:30

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1 6 3 4 0 2 0 0	gallons	Flow Rate: 10 gal/ 11 seconds = 0 gpm
Chlorine Dosage Rate	4 5	(NOTE: if not at 4 or 5, contact management)		
Bag Filter 1 Pressure	Before:	1407	psi	After: psi
Bag Filter 2 Pressure	Before:		psi	After: psi
All Bag Filters below 30 psi?	Y N	(NOTE: if greater than 30 psi, contact management)		
Transfer Pump Flow	Total Flow:	Running	gallons	Flow Rate: 5 gal/ seconds = 0 gpm
Carbon Series 1 Pressure	Before:		psi	After: psi
Carbon Series 2 Pressure	Before:		psi	After: psi
Carbon Series 3 Pressure	Before:		psi	After: psi
Surge Tank A	Approx. 500	Gals.	Surge Tank B	Approx. 270 Gals.
All Carbon Pressures below 15 psi?	Y N	(NOTE: if greater than 15 psi, contact management)		
Flow to Infiltration Unit	Total Flow:	3 7 9 0 1 1 2 5 0	gallons	Flow Rate: 5 gal/24.8 seconds = 12.1 gpm

Eight Digits

5 gal 24.6 sec
5 gal 24.7 sec
5 gal 25.0 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 8 5 2 1 5 0	1 gal/ 11 seconds = 0 gpm
R-2	Six Digits 6 7 6 7 5 6 4	1 gal/ 11 seconds = 0 gpm
R-3	Five Digits 1 0 8 7 8 0	1 gal/ 11 seconds = 0 gpm
R-4	Seven Digits 5 0 4 7 9 4 0	1 gal/ 11 seconds = 0 gpm
R-5	Seven Digits 6 2 1 2 0 4 0	1 gal/ 11 seconds = 0 gpm
R-6	Oil/Water Separator Operating? Y N	Oil Tank Full Y (N)
R-7	Six Digits 8 9 6 5 1 0	1 gal/ 11 seconds = 0 gpm
R-8	Six Digits 5 4 7 4 8 0	1 gal/ 11 seconds = 0 gpm
R-9	Six Digits 2 9 7 6 5 0	1 gal/ 11 seconds = 0 gpm
R-10	Six Digits 6 5 9 5 0	1 gal/ 11 seconds = 0 gpm
R-11	Seven Digits 1 7 2 2 2 2 0	1 gal/ 11 seconds = 0 gpm

Are all R wells visible, accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

W. J. Miller
checked by et

DATE:

10/20/08

TIME:

1:19

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1 6 4 1 1 0 0 0	gallons	Flow Rate:	10 gal/MP seconds = <i>MP</i> gpm
Chlorine Dosage Rate	4 (5)	(NOTE: if not at 4 or 5, contact management)			
Bag Filter 1 Pressure	Before:		psi	After:	psi
Bag Filter 2 Pressure	Before:		psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)					
Transfer Pump Flow	Total Flow:	<i>Not</i>	gallons	Flow Rate:	5 gal/ seconds = <i>MP</i> gpm
Carbon Series 1 Pressure	Before:		psi	After:	psi
Carbon Series 2 Pressure	Before:	<i>Running</i>	psi	After:	psi
Carbon Series 3 Pressure	Before:		psi	After:	psi
Surge Tank A	Approx. 820	Gals.	Surge Tank B	Approx. 400	Gals.
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)					
Flow to Infiltration Unit	Total Flow:	3 1 0 5 0 8 9 0	gallons	Flow Rate:	5 gal/22.5 seconds = <i>13.3</i> gpm

0 Eight Digits

5 gal 22.6 sec
5 gal 22.0 sec
5 gal 22.7 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 8 6 2 5 1 0	MP 1 gal/ seconds = gpm
R-2	Six Digits 6 8 1 9 4 6	MP 1 gal/ seconds = gpm
R-3	Five Digits 1 1 3 6 2 8	MP 1 gal/ seconds = gpm
R-4	Seven Digits 5 0 6 1 3 3 0	NP 1 gal/ seconds = gpm
R-5	Seven Digits 6 2 2 6 5 8 0	NP 1 gal/ seconds = gpm
R-6	Oil/Water Separator Operating? Y N Oil Tank Full Y (N)	
R-7	Six Digits 1 8 0 1 0 0 0	NP 1 gal/ seconds = gpm
R-8	Six Digits 5 4 8 8 2 8	NP 1 gal/ seconds = gpm
R-9	Six Digits 2 9 8 6 9 8	NP 1 gal/ seconds = gpm
R-10	Six Digits 6 7 1 4 1 0	NP 1 gal/ seconds = gpm
R-11	Seven Digits 1 7 2 4 0 4 0	NP 1 gal/ seconds = gpm

Are all R wells visible, accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible accessible, and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Neil Thatt

DATE:

10/21/08

TIME:

1:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	8	4	2	8	3	0	0	gallons	Flow Rate:	10 gal/MP	seconds = 0	gpm	
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)												
Bag Filter 1 Pressure	Before:									psi	After:				psi
Bag Filter 2 Pressure	Before:									psi	After:				psi
All Bag Filters below 30 psi?		Y	N	(NOTE: if greater than 30 psi, contact management)											
Transfer Pump Flow	Total Flow:	4	6	5	7	0	3	gallons			Flow Rate:	5 gal/MP	seconds = 0	gpm	
Carbon Series 1 Pressure	Before:	<i>NOT</i>								psi	After:				psi
Carbon Series 2 Pressure	Before:	<i>Running</i>								psi	After:				psi
Carbon Series 3 Pressure	Before:									psi	After:				psi
Surge Tank A	Approx.	580	Gals.	Surge Tank B		Approx.	320	Gals.							
All Carbon Pressures below 15 psi?		Y	N	(NOTE: if greater than 15 psi, contact management)											
Flow to Infiltration Unit	Total Flow:	3	8	0	6	0	5	4	0	gallons	Flow Rate:	5 gal/22.5	seconds = 17.3	gpm	

Eight Digits

55 gal 22.8 sec
59 gal 22.7 sec
57 gal 22.3 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/22 seconds = 2.2 gpm
R-2	Six Digits	1 gal/MP seconds = 0 gpm
R-3	Five Digits	1 gal/MP seconds = 0 gpm
R-4	Seven Digits	1 gal/22 seconds = 2.2 gpm
R-5	Seven Digits	1 gal/22 seconds = 2.2 gpm
R-6	Oil/Water Separator Operating Y/N	Oil Tank Full Y/N
R-7	Six Digits	1 gal/MP seconds = 0 gpm
R-8	Six Digits	1 gal/MP seconds = 0 gpm
R-9	Six Digits	1 gal/MP seconds = 0 gpm
R-10	Six Digits	1 gal/MP seconds = 0 gpm
R-11	Seven Digits	1 gal/MP seconds = 0 gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible, accessible and undamaged?

N (describe below)

N (describe below)

N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thurst
checked by N

DATE: 10/22/08
TIME: 1:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	4	4	8	2	0	0	gallons	Flow Rate:	10 gal/11 seconds =	gpm
Chlorine Dosage Rate	4	(5)	(NOTE: If not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:									psi	After:		
Bag Filter 2 Pressure	Before:									psi	After:		
All Bag Filters below 30 psi?		Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	779.55								gallons	Flow Rate:	5 gal/seconds =	11 gpm
Carbon Series 1 Pressure	Before:	Roughing								psi	After:		
Carbon Series 2 Pressure	Before:									psi	After:		
Carbon Series 3 Pressure	Before:									psi	After:		
Surge Tank A	Approx.	560		Gals.	Surge Tank B		Approx.		300		Gals.		
All Carbon Pressures below 15 psi?		Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	8	0	8	5	2	6	0	gallons	Flow Rate:	5 gal/22 seconds =	13.3 gpm

Eight Digits

5 gal 22.5 sec
5 gal 22.7 sec
5 gal 22.5 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 8 6 8 0 9 0	1 gal/28 seconds = 2.1 gpm
R-2	Six Digits 8 4 6 6 9	1 gal/11 seconds = 0 gpm
R-3	Five Digits 1 2 1 1 4	1 gal/11 seconds = 0 gpm
R-4	Seven Digits 5 0 6 8 6 8 0	1 gal/23 seconds = 2.1 gpm
R-5	Seven Digits 6 2 3 0 1 8 0	1 gal/11 seconds = 0 gpm
R-6	Oil/Water Separator Operating? (Y) N	
R-7	Six Digits 9 0 3 1 4 0	1 gal/11 seconds = 0 gpm
R-8	Six Digits 5 4 9 4 0 0	1 gal/11 seconds = 0 gpm
R-9	Six Digits 2 7 4 1 4 0	1 gal/4 seconds = 15 gpm
R-10	Six Digits 6 7 4 1 8 0	1 gal/11 seconds = 0 gpm
R-11	Seven Digits 1 7 2 4 9 5 0	1 gal/11 seconds = 0 gpm

Are all R wells visible, accessible, operating properly and undamaged?

☒ Y N (describe below)

Are well boxes locked and undamaged?

☒ Y N (describe below)

Are all nearby P wells visible, accessible, and undamaged?

☒ Y N (describe below)

COMMENTS

re-set x-for pump flowmeter at 315 gpm

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Hunt

DATE: 10/23/08

TIME: 1:15

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow From Wells	Total Flow:	1	6	4	6	5	3	0	0	gallons	Flow Rate:	10 gal/45 seconds = 13 gpm	
Chlorine Dosage Rate	4	5	(NOTE: If not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:	21	psi							After:	20	psi	
Bag Filter 2 Pressure	Before:	20	psi							After:	5	psi	
All Bag Filters below 30 psi?		Y	N	(NOTE: If greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	1	5	2	4	8	9	unk gallons			Flow Rate:	5 gal/ seconds = 10 gpm	
Carbon Series 1 Pressure	Before:	0	psi							After:	0	psi	
Carbon Series 2 Pressure	Before:	0	psi							After:	0	psi	
Carbon Series 3 Pressure	Before:	0	psi							After:	0	psi	
Surge Tank A	Approx.	220	Gals.		Surge Tank B	Approx.	330	Gals.					
All Carbon Pressures below 15 psi?		Y	N	(NOTE: If greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	8	1	0	4	7	7	0	gallons	Flow Rate:	5 gal/23 seconds = 13.0 gpm	

Eight Digits

5 gal/28 sec
5 gal/23.0 sec
5 gal/22.7 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	3 8 7 1 1 2 0
R-2	Six Digits	6 0 5 9 9 5
R-3	Five Digits	1 2 5 2 0 6
R-4	Seven Digits	5 0 7 3 1 2 0
R-5	Seven Digits	6 2 3 0 1 8 0 *
R-6	Oil/Water Separator Operating?	Y N
R-7	Six Digits	9 0 9 4 7 0
R-8	Six Digits	5 4 9 8 7 0
R-9	Six Digits	2 9 9 4 5 0
R-10	Six Digits	6 7 5 5 8 0
R-11	Seven Digits	1 7 2 3 2 0 0

Are all R wells visible accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible, accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

* R-5 reading did not change from yesterday - fold RC

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Veri
Thrust
checked my N

DATE:

10/24/08

TIME:

6:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	4	0	2	0	0	0	gallons	Flow Rate:	10 gal/MP	seconds = 0	gpm		
Chlorine Dosage Rate	4	5	(NOTE: If not at 4 or 5, contact management)													
Bag Filter 1 Pressure	Before:									psi	After:					psi
Bag Filter 2 Pressure	Before:									psi	After:					psi
All Bag Filters below 30 psi?		(NOTE: If greater than 30 psi, contact management)														
Transfer Pump Flow	Total Flow:	NOT 381124 ? ok								gallons	Flow Rate:	5 gal/MP	seconds = 0	gpm		
Carbon Series 1 Pressure	Before:	Running								psi	After:					psi
Carbon Series 2 Pressure	Before:									psi	After:					psi
Carbon Series 3 Pressure	Before:									psi	After:					psi
Surge Tank A	Approx.	450		Gals.		Surge Tank B				Approx.	220		Gals.			
All Carbon Pressures below 15 psi?		Y	N	(NOTE: If greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	8	1	2	0	7	6	0	gallons	Flow Rate:	5 gal/25	seconds = 12	gpm		

Eight Digits

55411 25.0 sec
55411 25.1 sec
55411 24.8 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 8 7 4 0 4 0	1 gal/2 seconds = 2.1 gpm
R-2	Six Digits 6 8 7 2 7 9	1 gal/MP seconds = 0 gpm
R-3	Five Digits 1 2 4 2 6 3	1 gal/MP seconds = 0 gpm
R-4	Seven Digits 5 0 7 7 9 0 0	1 gal/20 seconds = 3.0 gpm
R-5	Seven Digits 6 2 3 0 2 3 0	1 gal/MP seconds = 0 gpm
R-6	Oil/Water Separator Operating? Y N	
R-7	Six Digits 9 0 5 6 9 0	1 gal/MP seconds = 0 gpm
R-8	Six Digits 5 0 2 3 0 0	1 gal/MP seconds = 0 gpm
R-9	Six Digits 2 9 9 7 0 0	1 gal/MP seconds = 0 gpm
R-10	Six Digits 6 7 7 0 2 0	1 gal/MP seconds = 0 gpm
R-11	Seven Digits 1 7 2 5 0 3 0	1 gal/MP seconds = 0 gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Neill Thurt
checked by it

DATE: 10/27/08

TIME: 1215

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	5	3	2	5	0	0	gallons	Flow Rate: 10 gal/MP seconds = 0 gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)								
Bag Filter 1 Pressure	Before:	20	psi						After:	20	psi
Bag Filter 2 Pressure	Before:	20	psi						After:	19	psi
All Bag Filters below 30 psi?	(Y) N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	3	8	7	9	0	7	gallons		Flow Rate: 5 gal/MP seconds = 0 gpm	
Carbon Series 1 Pressure	Before:	5	psi						After:	5	psi
Carbon Series 2 Pressure	Before:	0	psi						After:	0	psi
Carbon Series 3 Pressure	Before:	0	psi						After:	0	psi
Surge Tank A	Approx.	670	Gals.		Surge Tank B	Approx.	300	Gals.			
All Carbon Pressures below 15 psi?	(Y) N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	8	1	6	8	5	1	0	gallons	Flow Rate: 5 gal/22 seconds = 13.6 gpm

Eight Digits

5 gal 22.9 sec
5 gal 22.1 sec
5 gal 21.7 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 8 8 2 7 1 0	1 gal/30 seconds = 2 gpm
R-2	Six Digits 6 9 1 2 0 3	1 gal/MP seconds = 0 gpm
R-3	Five Digits 1 4 1 3 2 5	1 gal/MP seconds = 6 gpm
R-4	Seven Digits 5 0 9 0 1 3 0	1 gal/22 seconds = 2.8 gpm
R-5	Seven Digits 6 2 3 0 2 2 0	1 gal/MP seconds = 0 gpm
R-6	Oil/Water Separator Operating (Y) N	Oil Tank Full (Y) (N)
R-7	Six Digits 9 0 9 3 9 0	1 gal/MP seconds = 0 gpm
R-8	Six Digits 5 5 1 3 2 0	1 gal/MP seconds = 0 gpm
R-9	Six Digits 3 2 0 0 4 4 0	1 gal/MP seconds = 0 gpm
R-10	Six Digits 6 0 1 5 7 0	1 gal/MP seconds = 0 gpm
R-11	Seven Digits 1 7 2 7 1 3 0	1 gal/MP seconds = 0 gpm

Are all R wells visible, accessible, operating properly and undamaged?

(Y) N (describe below)

Are well boxes locked and undamaged?

(Y) N (describe below)

Are all nearby P wells visible, accessible, and undamaged?

(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156 Fax: (503) 648-6383

INSPECTED BY: *W. J. Hunt*

DATE: *10/28/08*

TIME: *1:06*

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	8	4	8	0	0	gallons	Flow Rate: 10 gal/40 seconds = 15 gpm		
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:	psi								After:	psi	
Bag Filter 2 Pressure	Before:	psi								After:	psi	
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	<i>NU + 387907</i>								gallons	Flow Rate: 5 gal/MP seconds = 0 gpm	
Carbon Series 1 Pressure	Before:	<i>Running</i>								psi	After:	psi
Carbon Series 2 Pressure	Before:	psi								After:	psi	
Carbon Series 3 Pressure	Before:	psi								After:	psi	
Surge Tank A	Approx.	500	Gals.	Surge Tank B	Approx.	240	Gals.					
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	8	1	0	3	8	6	0	gallons	Flow Rate: 5 gal/21.5 seconds = 13.9 gpm	

Eight Digits

5 gal 22.1 sec

5 gal 21.6 sec

5 gal 21.4 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	3 8 8 5 8 4 0
R-2	Six Digits	6 9 2 5 2 0
R-3	Five Digits	1 4 5 3 2 2
R-4	Seven Digits	5 0 9 3 9 7 0
R-5	Seven Digits	6 2 3 0 2 0 0
R-6	Oil/Water Separator Operating?	Y (N)
R-7	Six Digits	9 1 0 6 0 0
R-8	Six Digits	5 5 1 6 7 0
R-9	Six Digits	3 0 3 6 7 0
R-10	Six Digits	6 0 3 1 9 0
R-11	Seven Digits	1 7 2 7 5 4 0

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Neil Thutt
checked by

DATE:

10/29/08

TIME:

1:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	5	6	3	9	0	0	gallons	Flow Rate: 10 gal/	seconds = <i>40</i> gpm
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	<i>38700</i>								gallons	Flow Rate: 5 gal/	seconds = <i>40</i> gpm
Carbon Series 1 Pressure	Before:									psi	After:	psi
Carbon Series 2 Pressure	Before:	<i>Running</i>								psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
Surge Tank A	Approx.	<i>420</i>		Gals.		Surge Tank B		Approx.		<i>240</i> Gals.		
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	8	1	9	8	0	5	0	gallons	Flow Rate: 5 gal/22	seconds = <i>13.6</i> gpm

Eight Digits

5 gal 22.1 sec
5 gal 21.8 sec
8 gal 20.2 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/seconds = 0 gpm
R-2	Six Digits	1 gal/seconds = 0 gpm
R-3	Five Digits	1 gal/seconds = 0 gpm
R-4	Seven Digits	1 gal/seconds = 0 gpm
R-5	Seven Digits	1 gal/seconds = 0 gpm
R-6	Oil/Water Separator Operating? Y N	Oil Tank Full Y N
R-7	Six Digits	1 gal/seconds = 0 gpm
R-8	Six Digits	1 gal/seconds = 0 gpm
R-9	Six Digits	1 gal/seconds = 0 gpm
R-10	Six Digits	1 gal/seconds = 0 gpm
R-11	Seven Digits	1 gal/seconds = 0 gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible, accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4086 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: weil trout

DATE: 11/3/08

TIME: 1:05

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	5	9	1	2	0	0	gallons	Flow Rate:	10 gal/	22 seconds = 27.3 gpm				
Chlorine Dosage Rate	4	(NOTE: If not at 4 or 5, contact management)															
Bag Filter 1 Pressure	Before:									psi	After:			psi			
Bag Filter 2 Pressure	Before:									psi	After:			psi			
All Bag Filters below 30 psi?		Y		N		(NOTE: If greater than 30 psi, contact management)											
Transfer Pump Flow	Total Flow:	3	8	7	9	0	7							gallons	Flow Rate:	5 gal/	seconds = 0 gpm
Carbon Series 1 Pressure	Before:	NOT								psi	After:			psi			
Carbon Series 2 Pressure	Before:	Running								psi	After:			psi			
Carbon Series 3 Pressure	Before:									psi	After:			psi			
Surge Tank A	Approx.	530		Gals.		Surge Tank B				Approx.	200		Gals.				
All Carbon Pressures below 15 psi?		Y		N		(NOTE: if greater than 15 psi, contact management)											
Flow to Infiltration Unit	Total Flow:	3	8	2	4	1	9	6	0	gallons	Flow Rate:	5 gal/	24 seconds = 12.5 gpm				

Eight Digits

5 gal 24.1 sec
5 gal 24.0 sec
5 gal 24.0 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 8 4 2 8 6 0	1 gal/25 seconds = 2.4 gpm
R-2	Six Digits 6 9 3 8 7 8	1 gal/10 seconds = 0 gpm
R-3	Five Digits 1 5 8 7 2 3	1 gal/10 seconds = 0 gpm
R-4	Seven Digits 5 6 0 4 4 1 0	1 gal/21 seconds = 2.8 gpm
R-5	Seven Digits 6 2 3 0 2 8 0	1 gal/10 seconds = 0 gpm
R-6	Oil/Water Separator Operating? (Y) N	
R-7	Six Digits 9 1 3 7 5 0	1 gal/10 seconds = 0 gpm
R-8	Six Digits 5 5 2 6 4 0	1 gal/10 seconds = 0 gpm
R-9	Six Digits 3 0 1 3 2 0	1 gal/10 seconds = 0 gpm
R-10	Six Digits 6 8 7 2 4 0	1 gal/10 seconds = 0 gpm
R-11	Seven Digits 1 7 2 8 6 2 0	1 gal/10 seconds = 0 gpm

Are all R wells visible, accessible, operating properly and undamaged?

(Y)

N

(describe below)

Are well boxes locked and undamaged?

(Y)

N

(describe below)

Are all nearby P wells visible accessible, and undamaged?

(Y)

N

(describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST
PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thutt
checked by

DATE: 11/04/08
TIME: 2:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	6	1	0	2	0	0	gallons	Flow Rate:	10 gal/38 seconds = 15.8 gpm
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	3	8	7	9	0	7	gallons			Flow Rate:	5 gal/ seconds = 0 gpm
Carbon Series 1 Pressure	Before:	NOT running								psi	After:	psi
Carbon Series 2 Pressure	Before:									psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
Surge Tank A	Approx.	500	Gals.	Surge Tank B	Approx.	200	Gals.					
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	8	2	9	1	4	6	0	gallons	Flow Rate:	5 gal/22.6 seconds = 13.3 gpm

Eight Digits

5 gal 22.6 sec
5 gal 22.6 sec
5 gal 22.6 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 8 9 6 3 0 0	1 gal/24 seconds = 2.5 gpm
R-2	Six Digits 6 9 7 5 6 7	1 gal/MP seconds = 0 gpm
R-3	Five Digits 1 6 0 5 7 9	1 gal/MP seconds = 0 gpm
R-4	Seven Digits 5 1 0 9 1 1 0	1 gal/10 seconds = 3.3 gpm
R-5	Seven Digits 6 2 3 0 3 5 0	1 gal/MP seconds = 0 gpm
R-6	Oil/Water Separator Operating Y N	
R-7	Six Digits 9 1 5 1 2 0	1 gal/MP seconds = 0 gpm
R-8	Six Digits 5 3 1 0 0	1 gal/MP seconds = 0 gpm
R-9	Six Digits 3 0 1 6 1 0	1 gal/MP seconds = 0 gpm
R-10	Six Digits 6 8 9 0 3 0	1 gal/MP seconds = 0 gpm
R-11	Seven Digits 1 7 2 9 0 7 0	1 gal/MP seconds = 0 gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Twitt

DATE: 11/5/08

TIME: 1:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

1:16.29 sec

Flow from Wells	Total Flow:	1	6	6	2	7	3	0	0	gallons	Flow Rate:	10 gal/	seconds =	gpm
Chlorine Dosage Rate	4	5	(NOTE: if not at 4 or 5, contact management)											
Bag Filter 1 Pressure	Before:	20							psi	After:	20	psi		
Bag Filter 2 Pressure	Before:	20							psi	After:	5	psi		
All Bag Filters below 30 psi?		Y	N	(NOTE: if greater than 30 psi, contact management)										
Transfer Pump Flow	Total Flow:	3	8	7	9	0	7			gallons	Flow Rate:	5 gal/	seconds =	0 gpm
Carbon Series 1 Pressure	Before:	0							psi	After:	2	psi		
Carbon Series 2 Pressure	Before:	0							psi	After:	0	psi		
Carbon Series 3 Pressure	Before:	2							psi	After:	5	psi		
Surge Tank A	Approx.	530	Gals.		Surge Tank B		Approx.		240	Gals.				
All Carbon Pressures below 15 psi?		Y	N	(NOTE: if greater than 15 psi, contact management)										
Flow to Infiltration Unit	Total Flow:	3	8	4	5	0	1	5	0	gallons	Flow Rate:	5 gal/	22 seconds =	13.6 gpm

Eight Digits

SS+11 22.4 15sec
SS+11 22.2 15sec
SS+11 21.9 15sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 8 9 9 4 8 0	1 gal/20 seconds = 3 gpm
R-2	Six Digits: 6 9 8 9 0 8	1 gal/10 seconds = 6 gpm
R-3	Five Digits: 1 6 4 8 6 7	1 gal/10 seconds = 6 gpm
R-4	Seven Digits: 5 1 1 3 5 6 0	1 gal/8 seconds = 7.5 gpm
R-5	Seven Digits: 6 2 3 0 2 8 0	1 gal/10 seconds = 6 gpm
R-6	Oil/Water Separator Operating? Y N	Oil Tank Full Y N
R-7	Six Digits: 9 1 6 3 7 0	1 gal/10 seconds = 6 gpm
R-8	Six Digits: 5 8 5 0 0	1 gal/10 seconds = 6 gpm
R-9	Six Digits: 3 0 7 8 6 0	1 gal/10 seconds = 6 gpm
R-10	Six Digits: 6 9 0 6 9 0	1 gal/10 seconds = 6 gpm
R-11	Seven Digits: 1 7 2 9 4 9 0	1 gal/10 seconds = 6 gpm

Are all R wells visible, accessible, operating properly and undamaged?

Y N (describe below)

Are well boxes locked and undamaged?

Y N (describe below)

Are all nearby P wells visible, accessible and undamaged?

Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4166

Fax: (503) 648-6383

INSPECTED BY: *Neil Hunt*

DATE: *11/6/08*

TIME: *1:00*

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow: <i>1 6 6 4 5 7 0 0</i> gallons	Flow Rate: 10 gal/10 seconds = 0 gpm
Chlorine Dosage Rate	4 <i>5</i> (NOTE: if not at 4 or 5, contact management)	
Bag Filter 1 Pressure	Before: psi After: psi	
Bag Filter 2 Pressure	Before: psi After: psi	
All Bag Filters below 30 psi?	Y N (NOTE: if greater than 30 psi, contact management)	
Transfer Pump Flow	Total Flow: <i>387907</i> gallons	Flow Rate: 5 gal/ seconds = 0 gpm
Carbon Series 1 Pressure	Before: <i>NOT</i> psi After: psi	
Carbon Series 2 Pressure	Before: <i>Running</i> psi After: psi	
Carbon Series 3 Pressure	Before: psi After: psi	
Surge Tank A	Approx. <i>400</i> Gals.	Surge Tank B
Approx. <i>200</i> Gals.		
All Carbon Pressures below 15 psi?	Y N (NOTE: if greater than 15 psi, contact management)	
Flow to Infiltration Unit	Total Flow: <i>3 8 2 7 5 3 8 0</i> gallons	Flow Rate: 5 gal/23.4 seconds = 12.7 gpm

Eight Digits

5911 23.0 sec
5911 23.8 sec
5911 22.4 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits <i>3 8 7 0 2 0 5 0</i>	1 gal/16 seconds = 3.8 gpm
R-2	Six Digits <i>1 8 0 0 6 7 8</i>	1 gal/14 seconds = 0 gpm
R-3	Five Digits <i>1 8 9 5 0 8</i>	1 gal/14 seconds = 0 gpm
R-4	Seven Digits <i>5 1 1 8 2 9 0</i>	1 gal/10 seconds = 3.3 gpm
R-5	Seven Digits <i>6 2 3 0 2 0 0</i>	1 gal/10 seconds = 0 gpm
R-6	Oil/Water Separator Operating? <i>Y N</i>	Oil Tank Full Y (N)
R-7	Six Digits <i>9 1 7 6 3 0</i>	1 gal/14 seconds = 0 gpm
R-8	Six Digits <i>5 3 9 2 1</i>	1 gal/14 seconds = 0 gpm
R-9	Six Digits <i>3 0 2 1 3 0</i>	1 gal/14 seconds = 0 gpm
R-10	Six Digits <i>6 9 2 1 5 2</i>	1 gal/14 seconds = 0 gpm
R-11	Seven Digits <i>1 7 2 9 9 3 0</i>	1 gal/14 seconds = 0 gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible, accessible and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro, Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thurtell
checked by et

DATE: 11/17/08
TIME: 1:15

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	8	6	5	0	0	0	0	gallons	Flow Rate: 10 gal/29 seconds = 20.7 gpm	
Chlorine Dosage Rate	4	(3)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	NO 1415292								gallons	Flow Rate: 5 gal/ seconds = 0 gpm	
Carbon Series 1 Pressure	Before:									psi	After:	psi
Carbon Series 2 Pressure	Before:	Running								psi	After:	psi
Carbon Series 3 Pressure	Before:									psi	After:	psi
Surge Tank A	Approx.	350	Gals.	Surge Tank B	Approx.	190	Gals.					
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	8	2	7	9	8	2	0	gallons	Flow Rate: 5 gal/23.8 seconds = 12.6 gpm	

Eight Digits

5 gal/ 23.8 sec
5 gal/ 23.8 sec
5 gal/ 23.7 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 9 0 3 7 5 0	1 gal/28 seconds = 2.1 gpm
R-2	Six Digits 7 0 1 0 6 0	1 gal/10 seconds = 0 gpm
R-3	Five Digits 1 7 0 8 0 3	1 gal/10 seconds = 0 gpm
R-4	Seven Digits 5 1 1 9 5 7 0	1 gal/15 seconds = 4.0 gpm
R-5	Seven Digits 6 2 3 0 2 0 0	1 gal/10 seconds = 0 gpm
R-6	Oil/Water Separator Operating? (Y) N	
R-7	Six Digits 9 1 7 9 6 0	1 gal/10 seconds = 0 gpm
R-8	Six Digits 5 5 4 0 5 0	1 gal/10 seconds = 0 gpm
R-9	Six Digits 3 0 2 2 1 0	1 gal/10 seconds = 0 gpm
R-10	Six Digits 6 9 2 0 1 0	1 gal/10 seconds = 0 gpm
R-11	Seven Digits 1 7 3 0 0 7 0	1 gal/10 seconds = 0 gpm

Are all R wells visible, accessible operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible accessible, and undamaged?

(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Nail Thrutt

checked by st

DATE: 11/10/08

TIME: 2:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	7	0	5	1	0	0	gallons	Flow Rate:	10 gal/	56 seconds =	16.3 gpm	
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)												
Bag Filter 1 Pressure	Before:									psi	After:				psi
Bag Filter 2 Pressure	Before:									psi	After:				psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	1	1	3	0	8	2	5		gallons	Flow Rate:	5 gal/	seconds =	0 gpm	
Carbon Series 1 Pressure	Before:	NOT								psi	After:				psi
Carbon Series 2 Pressure	Before:	RUNNING								psi	After:				psi
Carbon Series 3 Pressure	Before:									psi	After:				psi
Surge Tank A	Approx.	500	Gals.	Surge Tank B	Approx.	270	Gals.								
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	8	3	3	7	1	9	0	gallons	Flow Rate:	5 gal/	2.3 seconds =	13.5 gpm	

Eight Digits

5541 22.1 sec
5541 22.4 sec
5541 22.4 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits 3 9 1 4 8 3 0	1 gal/26 seconds = 2.3 gpm
R-2	Six Digits 7 0 6 1 2 9	1 gal/np seconds = 0 gpm
R-3	Five Digits 1 0 2 5 1 6	1 gal/np seconds = 0 gpm
R-4	Seven Digits 5 1 3 4 8 6 0	1 gal/16 seconds = 3.8 gpm
R-5	Seven Digits 8 2 3 9 2 3 0	1 gal/np seconds = 0 gpm
R-6	Oil/Water Separator Operating? Y N	Oil Tank Full Y (N)
R-7	Six Digits 9 2 1 8 3 0	1 gal/np seconds = 0 gpm
R-8	Six Digits 5 5 4 1 0	1 gal/np seconds = 0 gpm
R-9	Six Digits 3 0 3 0 5 0	1 gal/np seconds = 0 gpm
R-10	Six Digits 6 9 5 4 4 8	1 gal/np seconds = 0 gpm
R-11	Seven Digits 1 7 3 1 4 6 0	1 gal/np seconds = 0 gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible, accessible, and undamaged?

Y N (describe below)
Y N (describe below)
Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY:

Neil Thurst

DATE:

11/11/06

TIME:

12:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	7	2	1	9	0	0	gallons	Flow Rate: 10 gal/	seconds = 16.7gpm	
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:	15								psi	After:	20	psi
Bag Filter 2 Pressure	Before:	20								psi	After:	5	psi
All Bag Filters below 30 psi?		(Y)	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	1138925							gallons	Flow Rate: 5 gal/	seconds = 0 gpm		
Carbon Series 1 Pressure	Before:	5								psi	After:	5	psi
Carbon Series 2 Pressure	Before:	5								psi	After:	2	psi
Carbon Series 3 Pressure	Before:	2								psi	After:	5	psi
Surge Tank A	Approx.	420	Gals.			Surge Tank B			Approx.	175	Gals.		
All Carbon Pressures below 15 psi?		(Y)	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	8	8	9	6	8	0	0	gallons	Flow Rate: 5 gal/	seconds = 13.6gpm	

Eight Digits

5 gal 22.4 l/sec
5 gal 22.5 l/sec
5 gal 22.0 l/sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/25 seconds = 2.4 gpm
R-2	Six Digits	1 gal/15 seconds = 0 gpm
R-3	Five Digits	1 gal/15 seconds = 0 gpm
R-4	Seven Digits	1 gal/15 seconds = 4.0 gpm
R-5	Seven Digits	1 gal/15 seconds = 0 gpm
R-6	Oil/Water Separator Operating? (Y) N	Oil Tank Full (Y) (N)
R-7	Six Digits	1 gal/15 seconds = 0 gpm
R-8	Six Digits	1 gal/15 seconds = 0 gpm
R-9	Six Digits	1 gal/15 seconds = 0 gpm
R-10	Six Digits	1 gal/15 seconds = 0 gpm
R-11	Seven Digits	1 gal/15 seconds = 0 gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible, accessible and undamaged?

(Y) N (describe below)
(Y) N (describe below)
(Y) N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Neil Thurt

DATE: 11/13/08

TIME: 1:00

checked by st

GROUNDWATER TREATMENT SYSTEM

Flow from Wells	Total Flow:	1	6	7	8	1	9	0	0	gallons	Flow Rate:	10 gal/10 seconds = 9.1 gpm
Chlorine Dosage Rate	4	(5)	(NOTE: if not at 4 or 5, contact management)									
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi?	Y	N	(NOTE: if greater than 30 psi, contact management)									
Transfer Pump Flow	Total Flow:	1	1	3	8	0	2	5	gallons		Flow Rate:	5 gal/seconds = 0 gpm
Carbon Series 1 Pressure	Before:	<u>24.3</u>								psi	After:	psi
Carbon Series 2 Pressure	Before:	<u>24.0</u>								psi	After:	psi
Carbon Series 3 Pressure	Before:	<u>24.5</u>								psi	After:	psi
Surge Tank A	Approx.	530	Gals.		Surge Tank B	Approx.		300	Gals.			
All Carbon Pressures below 15 psi?	Y	N	(NOTE: if greater than 15 psi, contact management)									
Flow to Infiltration Unit	Total Flow:	3	8	5	8	3	4	5	0	gallons	Flow Rate:	5 gal/4.2 seconds = 12.4 gpm

Eight Digits

5 gal 24.3 lsec
5 gal 24.0 lsec
5 gal 24.5 lsec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits: 3 9 2 6 1 0 0	1 gal/7 seconds = 3.5 gpm
R-2	Six Digits: 7 1 2 2 0 0	1 gal/10 seconds = 0 gpm
R-3	Five Digits: 1 9 7 9 5	1 gal/10 seconds = 0 gpm
R-4	Seven Digits: 5 1 5 1 1 0	1 gal/15 seconds = 4.0 gpm
R-5	Seven Digits: 6 2 3 0 2 0 0	1 gal/10 seconds = 0 gpm
R-6	Oil/Water Separator Operating? (Y) N	Oil Tank Full (Y) N
R-7	Six Digits: 9 2 8 5 1 0	1 gal/10 seconds = 0 gpm
R-8	Six Digits: 5 5 6 9 0	1 gal/10 seconds = 0 gpm
R-9	Six Digits: 3 0 8 0 5 0	1 gal/10 seconds = 0 gpm
R-10	Six Digits: 1 6 0 0 8 0 0	1 gal/10 seconds = 0 gpm
R-11	Seven Digits: 1 7 3 2 7 7 0	1 gal/10 seconds = 0 gpm

Are all R wells visible, accessible, operating properly and undamaged?

Are well boxes locked and undamaged?

Are all nearby P wells visible, accessible, and undamaged?

☒ Y N (describe below)
☒ Y N (describe below)
☒ Y N (describe below)

COMMENTS

GWTU MONITORING SHEET

PERMAPOST

PRESSURE TREATING AND FABRICATED WOOD PRODUCTS

4066 SE TV Highway
Hillsboro Oregon 97123

Office: (503) 648-4156

Fax: (503) 648-6383

INSPECTED BY: Wenli Thurt

checked by

DATE: 11/14/08

TIME: 11:00

GROUNDWATER TREATMENT SYSTEM

Eight Digits

Flow from Wells	Total Flow:	1	6	7	7	9	2	0	0	gallons	Flow Rate: 10 gal/seconds = 10 gpm	
Chlorine Dosage Rate	4	(NOTE: if not at 4 or 5, contact management)										
Bag Filter 1 Pressure	Before:									psi	After:	psi
Bag Filter 2 Pressure	Before:									psi	After:	psi
All Bag Filters below 30 psi? Y N (NOTE: if greater than 30 psi, contact management)												
Transfer Pump Flow	Total Flow:	1138925								gallons	Flow Rate: 5 gal/seconds = 0 gpm	
Carbon Series 1 Pressure	Before:	N/A								psi	After:	psi
Carbon Series 2 Pressure	Before:	Running								psi	After:	psi
Carbon Series 3 Pressure	Before:	Running								psi	After:	psi
Surge Tank A	Approx.	420		Gals.		Surge Tank B		Approx.		200		Gals.
All Carbon Pressures below 15 psi? Y N (NOTE: if greater than 15 psi, contact management)												
Flow to Infiltration Unit	Total Flow:	3	8	4	0	0	0	2	0	gallons	Flow Rate: 5 gal/seconds = 12.5 gpm	

Eight Digits

5 gal 23.2 sec
5 gal 23.6 sec
5 gal 23.2 sec

RECOVERY WELL SYSTEM

Well	Total Flow (gallons)	Flow Rate (gpm) or Not Pumping (np)
R-1	Seven Digits	1 gal/22 seconds = 2.7 gpm
R-2	Six Digits	1 gal/10 seconds = 0 gpm
R-3	Five Digits	1 gal/10 seconds = 0 gpm
R-4	Seven Digits	1 gal/17 seconds = 3.5 gpm
R-5	Seven Digits	1 gal/10 seconds = 0 gpm
R-6	Oil/Water Separator Operating? (Y) N	
R-7	Six Digits	1 gal/10 seconds = 0 gpm
R-8	Six Digits	1 gal/10 seconds = 0 gpm
R-9	Six Digits	1 gal/10 seconds = 0 gpm
R-10	Six Digits	1 gal/10 seconds = 0 gpm
R-11	Seven Digits	1 gal/10 seconds = 0 gpm

Are all R wells visible accessible operating properly and undamaged?

Y N (describe below)

Are well boxes locked and undamaged?

Y N (describe below)

Are all nearby P wells visible accessible, and undamaged?

Y N (describe below)

COMMENTS

Appendix D
Field Sampling Data Sheets

Status Sheet
Permapost
September 2008

MILESTONES	DATE	TIME	INITIALS
1. Bottles Ordered	9/16/08		SBH
2. Spreadsheets			
a. Task Sheet			
b. Field Sampling Data Sheet	9/21/08		SBH
c. Daily Log	9/21/08		SBH
3. Equipment Mobilized	9/21/08		SBH
4. Sampling Started	9/22/08		SBH
5. Sampling Finished	9/24/08		SBH
6. Equipment Chargeable/ Turned In <i>Given Date</i>			
Notes:			

PERMAPOST
WATER LEVELS

DATE: 9/22/08
PERSONNEL: S. Hargrave
PROBE # _____

Well Number	Time	Depth to Water	Depth to Bottom	Well Integrity
Monitoring Wells pkv				
P-8		11.30	8:40	156.98
P-9		10.10	8:30	151.95
P-10		14.97	10.06	
P-11b		13.83	11.42	
P-11c		12.75	9:55	
P-12a		14.85	9:26	
P-12b		14.00	9:29	
P-12c		13.63	9:21	
P-14a		12.01	9:31	
P-14b		11.87	9:34	
P-14c		13.33	9:38	
P-15a		12.18	9:16	
P-15b		14.49	9:18	
P-16		10.12	8:24	
P-17		17.18	8:53	
P-18a		8.31	8:18	
P-18b		9.25	8:20	
P-18c		6.72	8:15	
P-19a		13.65	9:03	
P-19b		14.55	9:06	
P-20				NR
P-21		12.98		estimate
Recovery Wells				
R-1		14.83	10.25	
R-2		10.90	9:58	
R-3		9.77	9:51	
R-4				NR
R-5		13.85	10.15	
R-6				NR
R-7		13.20	9:42	
R-8		13.52	9:45	
R-9		14.75	9:23	
R-10		14.80	14.80	9:08
R-11		21.10	9:06	

RMP-1

8.99

RMP-2

3.74

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: MW-16

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP-080922-P-16

DUP ID:

NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? TEMPERATURE: ° F ° C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

[Water Column]

[Circle appropriate units]

[Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
9/22/08	12:00	22.99	.	8.2H	.	14.75	X 1 2.70
/ /	:	.	.	.	.	.	X 3 7.2
Gal/ft = (dia./2) ² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875							

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

[√ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	9/22/08	12:40		3 40 ml	HCl	YES	NO		
Amber Glass	/ /	:	B	250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		250, 500, 1L	HNO ₃	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO ₃	YES	YES		
/ /	:			250, 500, 1L		YES			

Total Bottles (include duplicate count):

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) OR [] WA []
AMBER - Glass	(PAH) (TPH-HClD) (TPH-D) (TPH-418.1) (Oil & Grease) CP OR [] WA []
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Kjeldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time:

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (μS)	°F Temp °C	Other	DTW	Water Quality
4		.	.	.	.	.	.	.
3	B	7.2	5.98	386	15.6		9.85	Ch, color
2		4.8	5.96	384	15.6		9.84	"
1		2.4	5.91	378	15.7		9.81	"
0		0.00	.	.	.	.	.	.

[Casing]

[Select A-G]

[Cumulative Totals]

[Circle units]

[Clarity, Color]

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: MW-17R

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP-080922-17R

DUP ID: NA
WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? TEMPERATURE: °F °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
9/22/08	12:55	30.26	.	17.18	.	13.08	X 1 2.13
/ /	:	.	.	.	.	.	X 3 6.39
Gal/ft = (dia./2) ² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875							

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	/ /	:		3 40 ml	HCl	YES	NO		
Amber Glass	9/22/08	13:38	B	250, 500 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		✓
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		250, 500, 1L	HNO ₃	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO ₃	YES	YES		
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 1

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) OR [] WA []
AMBER - Glass	(PAH) (TPH-HClD) (TPH-D) (TPH-418.1) (Oil & Grease) CP OR [] WA []
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Kjeldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA			Purge Start Time: :			Pump/Bailer Inlet Depth:		
Meas.	Method §	Purged (gal)	pH	E Cond (μS)	°F Temp °C	Other	DTW	Water Quality
4		.	.	.	.		.	
3	B	6.0	6.39	289	13.8		18.33	Settling, colorless
2		4.4	6.40	290	13.8		18.33	"
1		2.7	6.44	307	14.5		18.30	Cloudy, tan
0		0.00	.	.	.		.	

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

SAMPLER: S Hargrave

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: MW-19B

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP-080922-19B

DUP ID:

NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? TEMPERATURE: 70 °F °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

[Water Column]

[Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
9/22/08	14:00	38.95	.	14.55	.	24.4	X 1 3.97
1/1	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875							

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailor (D) PVC/Teflon Bailor (E) Dedicated Bailor (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

[if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	1/1	:		3 40 ml	HCl	YES	NO		
Amber Glass	9/22/08	14:40	B	1 250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		✓
White Poly	1/1	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	1/1	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	1/1	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	1/1	:	B	1 250, 500, 1L	HNO ₃	YES	NO		✓
Red Diss. Poly	1/1	:		250, 500, 1L	HNO ₃	YES	YES		
	1/1	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 2

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) OR [] WA []
AMBER - Glass	(PAH) (TPH-HClD) (TPH-D) (TPH-418.1) (Oil & Grease) CP OR [] WA []
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Keldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time:

Pump/Bailor Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	DTW	Water Quality
4								
3	B	3.0	6.61	337	12.9		16.20	Clay Lick
2		2.0	6.62	336	12.9		16.19	"
1		1.0	6.68	337	12.9		16.15	"
0		0.00	6.75	340	13.9		14.55	Ch, Lick

[Casing]

[Select A-G]

[Cumulative Totals]

[Circle units]

[Clarity, Color]

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: P-19A

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP-080922-19A

WIND FROM: N NE E SE S (SW) W NW (LIGHT) MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? TEMPERATURE: °F 70 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
9/22/08	14:45	21.67	.	13.65	.	8.02	X 1 0.32
/ /	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163		1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080
							12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative (circle)	Ice	Filter	pH	✓
VOA Glass	/ /	:		3 40 ml	HCl	YES	NO		
Amber Glass	9/22/08	13:30	B	1 250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		250, 500, 1L	HNO ₃	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO ₃	YES	YES		
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): /

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) OR [] WA []
AMBER - Glass	(PAH) (TPH-HClD) (TPH-D) (TPH-418.1) (Oil & Grease) CP OR [] WA []
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Kjeldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: :

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (μS)	°F Temp °C	Other	DTW	Water Quality
4		.	.	.	.		.	
3	B	1.5	6.71	145	13.8		18.3	Chloride
2		1.0	6.69	146	13.8		18.0	"
1		0.5	6.63	178	14.0		17.95	"
0		0.00	6.60	336	13.9		.	

[Casing] [Select A-G] [Cumulative Totals] [Circle units] [Clarity, Color]

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: MW-15B

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP-080923-15B

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? TEMPERATURE: °F 60 °C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

[Water Column]

[Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
9/23/08	7:20	34.80	.	14.49	.	20.31	X 1 3.31
1/1	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

[✓ if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	1/1	:		3 40 ml	HCl	YES	NO		
Amber Glass	9/23/08	8:00	B	1 250, 500 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		-
White Poly	1/1	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	1/1	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	1/1	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	1/1	:		250, 500, 1L	HNO ₃	YES	NO		
Red Diss. Poly	1/1	:		250, 500, 1L	HNO ₃	YES	YES		
	1/1	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 1

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) OR [] WA []
	AMBER - Glass	(PAH) (TPH-HClD) (TPH-D) (TPH-418.1) (Oil & Grease) CP OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Kjeldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: :

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	DTW	Water Quality
4		.	.	.	.		.	
3	B	2.5	8.85	475	11.4		17.06	clear, colorless
2		2.0	8.83	477	11.4		17.04	"
1		1.0	8.75	531	11.4		16.95	"
0		0.00	.	.	.		.	

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

SAMPLER: S Hargrill

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: mu-12B *

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP 080923-12B

DUP ID: 080923-12B NA

WIND FROM: N NE E SE S SW W NW W W MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? TEMPERATURE: 68 °F 20 °C

(Circle appropriate units)

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

[Water Column]

[Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
9/23/08	8:45	34.80	.	14.00	.	20.8	X 1 3.39
/ /	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

(√ if used)

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	/ /	:		3 40 ml	HCl	YES	NO		
Amber Glass	9/23/08	9:20	B	1 250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		250, 500, 1L	HNO ₃	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO ₃	YES	YES		
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 2

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) OR [] WA []
	AMBER - Glass	(PAH) (TPH-HClID) (TPH-D) (TPH-418.1) (Oil & Grease) CP OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Keldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: :

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (μS)	°F Temp °C	Other	DTW	Water Quality
4	B	3.0	7.06	137	12.8		16.67	Clear, colorless
3	B	2.5	7.07	138	12.8		16.67	Clear, colorless
2		1.5	7.88	140	12.8		16.66	"
1		1.0	8.20	144	12.9		16.4	"
0		0.00	.	.	.		.	.

[Casing] [Select A-G] [Cumulative Totals] 925 [Circle units] [Clarity, Color]

SAMPLER:

S Harquail
(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: MW-12C

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP-080923-12C

WIND FROM: N NE E SE S SW W NW
WEATHER: SUNNY CLOUDY RAIN ?
TEMPERATURE: ° 60 ° C
DUP ID: NA
[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

[Water Column]

[Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
9/23/08	8:10	38.76	.	13.63	.	25.13	X 1 4.09
1/1	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailor (D) PVC/Teflon Bailor (E) Dedicated Bailor (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

[√ if used]

Bottle Type	Date	Time	Method	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	1/1	:		3 40 ml	HCl	YES	NO		
Amber Glass	9/23/08	8:40	B	1 250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	1/1	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	1/1	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	1/1	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	1/1	8:40	B	1 250, 500, 1L	(HNO ₃)	YES	NO		
Red Diss. Poly	1/1	:		250, 500, 1L	HNO ₃	YES	YES		
	1/1	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 2

Analysis Allowed per Bottle Type	BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
	VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) <u>LP</u> OR [] WA []
	AMBER - Glass	(PAH) (TPH-HClD) (TPH-D) (TPH-418.1) (Oil & Grease) OR [] WA []
	WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
	YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Keldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
	GREEN - Poly	(Cyanide)
	RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
	RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time:

Pump/Bailor Inlet Depth:

Meas.	Method	Purged (gal)	pH	E Cond (μS)	°F Temp °C	Other	DTW	Water Quality
4		.	.	.	.	.	.	
3	B	2.5	8.80	377	12.0		16.15	Clear, colorless
2		1.5	8.79	378	12.0		16.13	"
1		1.0	8.77	381	12.0		15.98	"
0		0.00	.	.	.	.	.	

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: 114 A

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP 080923-14A

DUP ID: NA
WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? TEMPERATURE: 60 °C
(Circle appropriate units)

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
9/23/08	9:28	17.97	.	9.37	.	8.60	X 1 1.41
/ /	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875							

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	/ /	:		3 40 ml	HCl	YES	NO		
Amber Glass	9/23/08	9:45	B	1 250, 500 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		✓
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		250, 500, 1L	HNO ₃	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO ₃	YES	YES		
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 1

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) OR [] WA []
AMBER - Glass	(PAH) (TPH-HClD) (TPH-D) (TPH-418.1) (Oil & Grease) CP OR [] WA []
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Keldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA			Purge Start Time: :			Pump/Bailer Inlet Depth:		
Meas.	Method §	Purged (gal)	pH	E Cond (µS)	°F Temp °C	Other	DTW	Water Quality
4		.	.	.	.			
3	B	1.5	6.47	353	13.8		18.01	Clear, colorless
2		1.0	6.47	355	13.9		13.97	"
1		0.5	6.46	352	14.6		10.9	"
0		0.00	.	.	.		.	

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

SAMPLER: S Hargrave

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: mw-14c

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP-080923-14c

WIND FROM:

N NE E SE S SW W ?

DUP ID:

NA

WEATHER:

SUNNY CLOUDY RAIN ?

TEMPERATURE: °F 65 °C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

[Water Column]

[Water Column x Gal/ft]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
9/23/08	10:25	63.45	.	13.33	.	50.12	X 1 8.16
/ /	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

[if used]

Bottle Type	Date	Time	Method	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	/ /	:		3 40 ml	HCl	YES	NO		
Amber Glass	9/23/08	11:00	B	1 250, 500 (1L)	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:	B	1 250, 500 1L	HNO ₃	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO ₃	YES	YES		
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 2

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) OR [] WA []
AMBER - Glass	(PAH) (TPH-HClD) (TPH-D) (TPH-418.1) (Oil & Grease) CP OR [] WA []
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Keldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time:

Pump/Bailer Inlet Depth:

Meas.	Method	Purged (gal)	pH	E Cond (μS)	°F Temp °C	Other	DTW	Water Quality
4		.	.	.	.		.	
3	B	3.0	7.92	125	13.5		14.83	Clear, colorless
2		2.0	7.90	124	13.5		14.82	"
1		1.0	7.89	125	13.6		14.80	"
0		0.00	7.95	129	13.8		14.63	Clear, colorless

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: 14-B

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP-080923-14B

DUP ID: NA

WIND FROM: N NE E SE S SW W ~~NW~~ LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? TEMPERATURE: °F 60 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
9/23/08	9:47	30.50	.	11.87	.	18.63	X 1 3.03
/ /	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163	1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080	12" = 5.875

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓ if used
VOA Glass	/ /	:		3 40 ml	HCl	YES	NO		
Amber Glass	9/23/08	10:20	R	1 250, 500 (1)	(None) (HCl) (H ₂ SO ₄)	YES	NO		✓
White Poly	/ /	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	/ /	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	/ /	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	/ /	:		250, 500, 1L	HNO ₃	YES	NO		
Red Diss. Poly	/ /	:		250, 500, 1L	HNO ₃	YES	YES		
	/ /	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): /

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) OR [] WA []
AMBER - Glass	(PAH) (TPH-HClD) (TPH-D) (TPH-418.1) (Oil & Grease) CP OR [] WA []
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Keldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time: :

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (μS)	°F Temp °C	Other	DTW	Water Quality
4	B	2.3	7.02	428	13.5		15.49	slt cloudy, lt tan
3	B	1.4	7.00	427	13.5		15.47	"
2		0.8	6.97	409	13.5		15.43	slt cloudy, lt tan
1		0.5	6.92	413	13.6		14.82	cloudy, Tan
0		0.00	.		.		.	

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: MW-18C

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP-080924-18C

DUP ID: 080924-18CD NA

WIND FROM: N NE E SE S SW W NW ?
WEATHER: SUNNY CLOUDY RAIN ?
TEMPERATURE: °F 65 °C

[Circle appropriate units]

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

[Product Thickness]

[Water Column]

[Water Column x Gal/m]

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
1/1	11:40	60.30	.	6.72	.	53.58	X1 8.73
1/1	:	.	.	.	.	.	X3 .
Gal/ft = (dia./2) ² x 0.163		1" = 0.041	2" = 0.163	3" = 0.367	4" = 0.653	6" = 1.469	10" = 4.080
						12" = 5.875	

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

[√ if used]

Bottle Type	Date	Time	Method	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	√
VOA Glass	1/1	SBH	3	40 ml	HCl	YES	NO		✓
Amber Glass	9/24/08	12:45	B	250, 500 (1L)	(None) (HCl) (H ₂ SO ₄)	YES	NO		✓
White Poly	1/1	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	1/1	12:15		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	1/1	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	1/1	:		250, 500, 1L	HNO ₃	YES	NO		
Red Diss. Poly	1/1	:		250, 500, 1L	HNO ₃	YES	YES		
	1/1	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 1

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) OR [] WA []
AMBER - Glass	(PAH) (TPH-HClD) (TPH-D) (TPH-418.1) (Oil & Grease) CP OR [] WA []
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Keldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time:

Pump/Bailer Inlet Depth:

Meas.	Method	Purged (gal)	pH	E Cond (μS)	°F Temp °C	Other	DTW	Water Quality
4								
3	B	3.0	8.91	80.1	14.4		19.79	Chm Col Wt 33
2		2.0	8.94	80.7	14.4		19.74	"
1		1.0	8.37	83.4	14.5		16.91	"
0		0.00	8.86	98.5	16.1		.	Chm Col Wt

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

FIELD SAMPLING DATA SHEET

Quality Technical Services

1733 NE 51st Avenue
Portland, Oregon 97213

Office: 503-572-5550

Fax: 503-335-6992

PROJECT NAME: PERMAPOST PRODUCTS

WELL ID: MW 18B

SITE ADDRESS: HILSBORO, OREGON

BLIND ID: PP-080924-18B

DUP ID: NA

WIND FROM: N NE E SE S SW W NW LIGHT MEDIUM HEAVY
WEATHER: SUNNY CLOUDY RAIN ? TEMPERATURE: 65 °F 65 °C

HYDROLOGY/LEVEL MEASUREMENTS (Nearest 0.01 ft)

Date	Time	DT-Bottom	DT-Product	DT-Water	DTP-DTW	DTB-DTW	Volume (gal)
9/24/08	12:25	39.90	.	9.25	.	30.65	X 1 4.99
1/1	:	.	.	.	.	.	X 3 .
Gal/ft = (dia./2) ² x 0.163 1" = 0.041 2" = 0.163 3" = 0.367 4" = 0.653 6" = 1.469 10" = 4.080 12" = 5.875							

§ METHODS: (A) Submersible Pump (B) Peristaltic Pump (C) Disposable Bailer (D) PVC/Teflon Bailer (E) Dedicated Bailer (F) Dedicated Pump (G) Other =

GROUNDWATER SAMPLING DATA (if product is detected, do NOT sample)

Sample Depth:

[if used]

Bottle Type	Date	Time	Method §	Amount & Volume mL	Preservative [circle]	Ice	Filter	pH	✓
VOA Glass	1/1	1:		3 40 ml	HCl	YES	NO		
Amber Glass	9/24/08	13:00	B	1 250, 500, 1L	(None) (HCl) (H ₂ SO ₄)	YES	NO		
White Poly	1/1	:		250, 500, 1L	None	YES	NO	NA	
Yellow Poly	1/1	:		250, 500, 1L	H ₂ SO ₄	YES	NO		
Green Poly	1/1	:		250, 500, 1L	NaOH	YES	NO		
Red Total Poly	1/1	13:00	B	1 250, 500, 1L	HNO ₃	YES	NO		✓
Red Diss. Poly	1/1	:		250, 500, 1L	HNO ₃	YES	YES		
	1/1	:		250, 500, 1L		YES			

Total Bottles (include duplicate count): 2

BOTTLE TYPE	TYPICAL ANALYSIS ALLOWED PER BOTTLE TYPE (Circle applicable or write non-standard analysis below)
VOA - Glass	(8010) (8010/8020) (8020) (8240) (8260) (BTEX) (TPH-G) (BTEX/TPH-G) OR [] WA []
AMBER - Glass	(PAH) (TPH-HClD) (TPH-D) (TPH-418.1) (Oil & Grease) CP OR [] WA []
WHITE - Poly	(pH) (Conductivity) (TDS) (TSS) (BOD) (Turbidity) (Alkalinity) (HCO ₃ /CO ₃) (Cl) (SO ₄) (NO ₃) (NO ₂) (F)
YELLOW - Poly	(COD) (TOC) (Total PO ₄) (Total Keldahl Nitrogen) (NH ₃) (NO ₃ /NO ₂)
GREEN - Poly	(Cyanide)
RED TOTAL - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na)
RED DISSOLVED - Poly	(As) (Sb) (Ba) (Be) (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) (Ni) (Ag) (Se) (Ti) (V) (Zn) (Hg) (K) (Na) (Hardness) (Silica)

WATER QUALITY DATA

Purge Start Time:

Pump/Bailer Inlet Depth:

Meas.	Method §	Purged (gal)	pH	E Cond (μS)	°F Temp °C	Other	DTW	Water Quality
4		.	.	.	.	.	.	.
3	B	1.5	7.69	124.3	14.4		9.88	Chloride 53
2		1.0	7.71	124.8	14.4		9.86	"
1		0.5	7.73	125.8	14.4		9.81	"
0		0.00	7.81	124	14.8		.	Chloride

[Casing] [Select A-G] [Cumulative Totals]

[Circle units]

[Clarity, Color]

SAMPLER:

(PRINTED NAME)

(SIGNATURE)

Daily Log

QUALITY TECHNICAL SERVICES

1733 NE 51st Avenue
Portland, Oregon, 97213
503-572-5550

PROJECT NAME: Permapost

DATE: 9/24/08

SITE ADDRESS:

PERSONNEL: SBT

WEATHER:**WIND FROM:**

N	NE	E	SE	S	SW	W	NW
SUNNY		CLOUDY		RAIN		?	

~~FIGHT~~

MEDIUM

HEAVY

TEMPERATURE: °F 65 °C

[Circle appropriate units]

TIME

COMMENTS

0900	Depart - Set up for sampling R. wells and Constant wells Sens. time
------	---

R-1 4025

Q.2 1030

metals

R-3 10 35

net 1/5

R-4. 2045

metals

R-5 1050

R-7 14 00

muts 65

R-8 4405

R-9 44 45

metals

R₂₁₈ 4120

R-21 1125



CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 2 OF 3 SR#: _____ COC # _____

PROJECT NAME Permapost Semi Annual
PROJECT NUMBER _____
PROJECT MANAGER Tin Browning
COMPANY/ADDRESS 1640 SW Macadam Ave, Sub 110
Portland OR 97239
CITY/STATE/ZIP _____
E-MAIL ADDRESS _____
PHONE # _____ FAX# _____
SAMPLER'S SIGNATURE [Signature]

NUMBER OF CONTAINERS

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons (see below) Gas ☐ Diesel ☐ Oil ☐	Fuel Fingerprint (FIQ) Oil & Grease/TPH 1664 HEM ☐ 1664 SGT ☐	Pesticides/Herbicides 608 ☐ 8081A ☐	Chlorophenolics Tri ☐ Tetra ☐	PAHS 8310 ☐ SIM ☐	Metals, Total (See list below) Cyanide ☐	pH, Cond, Cl, SO ₄ , PO ₄ , F, NO ₂ , NO ₃ , BOD, TSS, TDS (circle) NH ₃ -N, COD, Total-P, TKN, TOC, DOC (circle) NO ₂ +NO ₃	AOX 1650 ☐ 506 ☐	REMARKS
PP-080923-14B	9/23/08	1020		W 1						X					
PP-080924-18C	9/24/08	1215		W 1						X					
18CD		1220		W 1						X					
18B		1300		W 2						X	X				
R-1		1025		W 1						X					
R-2		1030		W 2						X	X				
R-3		1035		W 2						X	X				
R-4		1045		W 2						X	X				
R-5		1050		W 1						X					
R-7		1100		W 2						X	X				

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- ☒ II. Report Dup., MS; MSD as required
- ___ III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- ___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
☒ Standard (10-15 working days)
___ Provide FAX Results
Requested Report Date _____

Circle which metals are to be analyzed:

☒ Total Metals ☒ Al ☒ As ☐ Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg
Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:

RECEIVED BY:

RELINQUISHED BY:

RECEIVED BY:

Signature

Date/Time

Signature

Date/Time

Signature

Date/Time

Signature

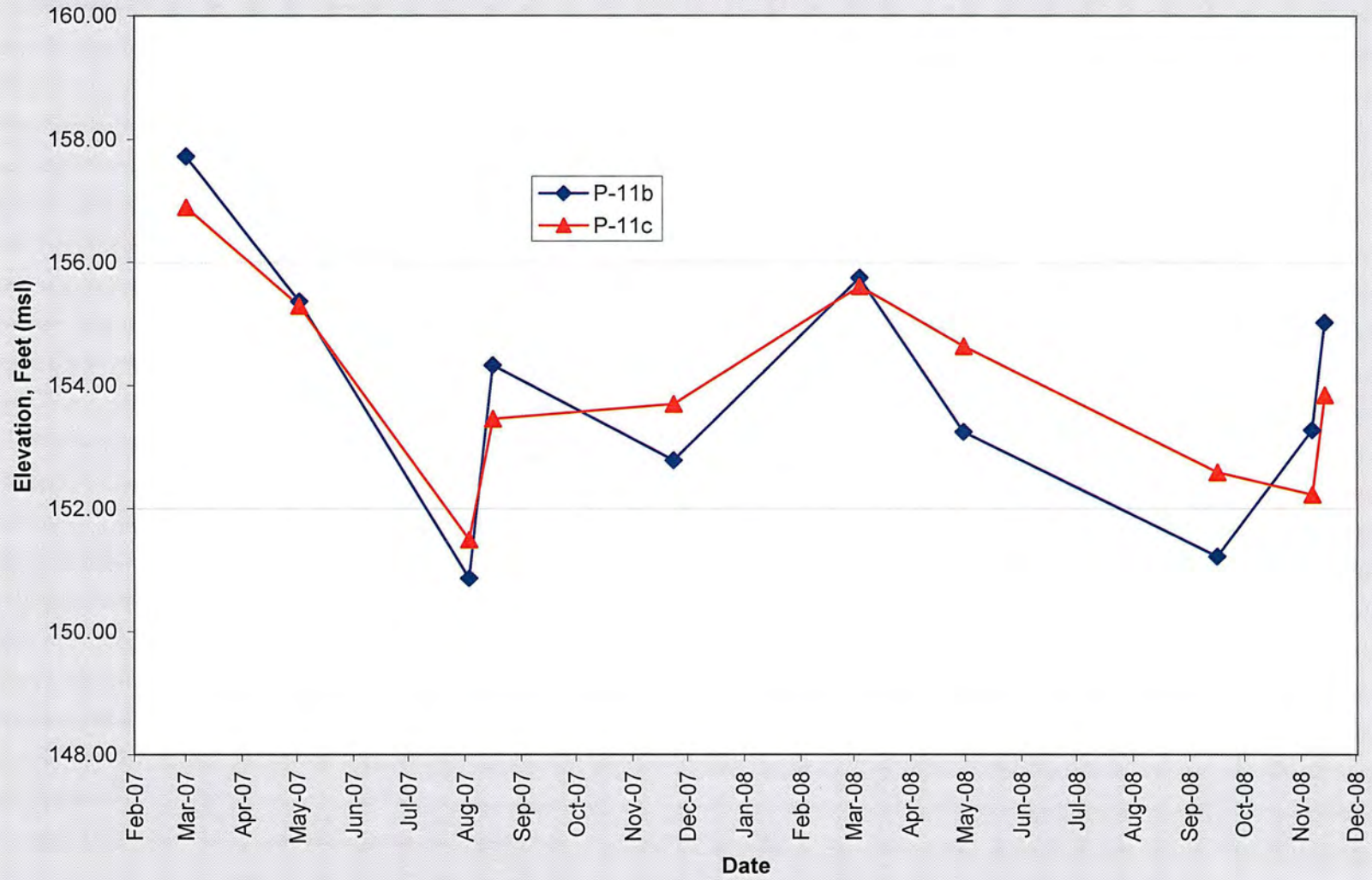
Date/Time

CHAIN OF CUSTODY

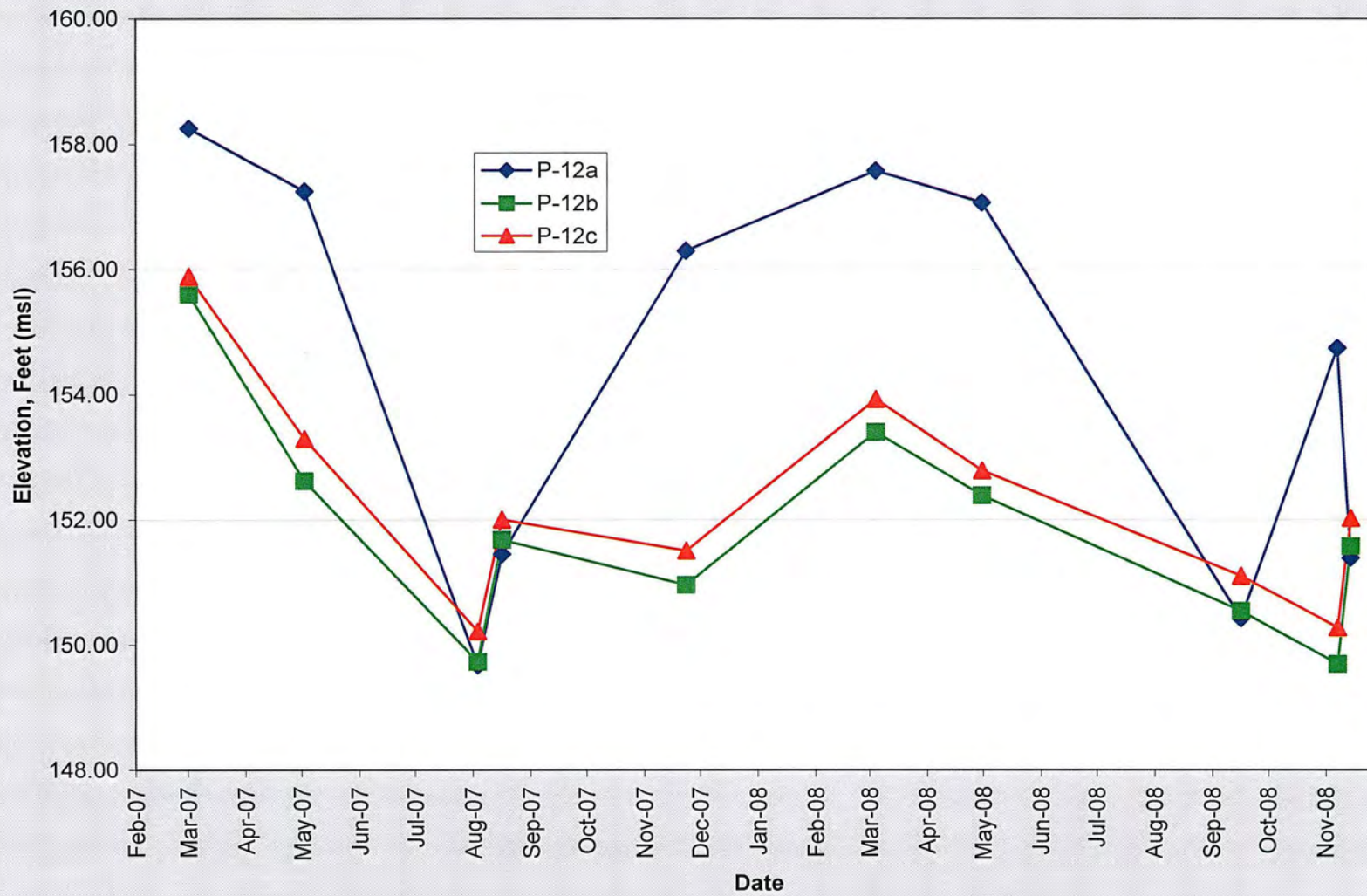
Appendix E

Time Series Plots – Groundwater Elevations

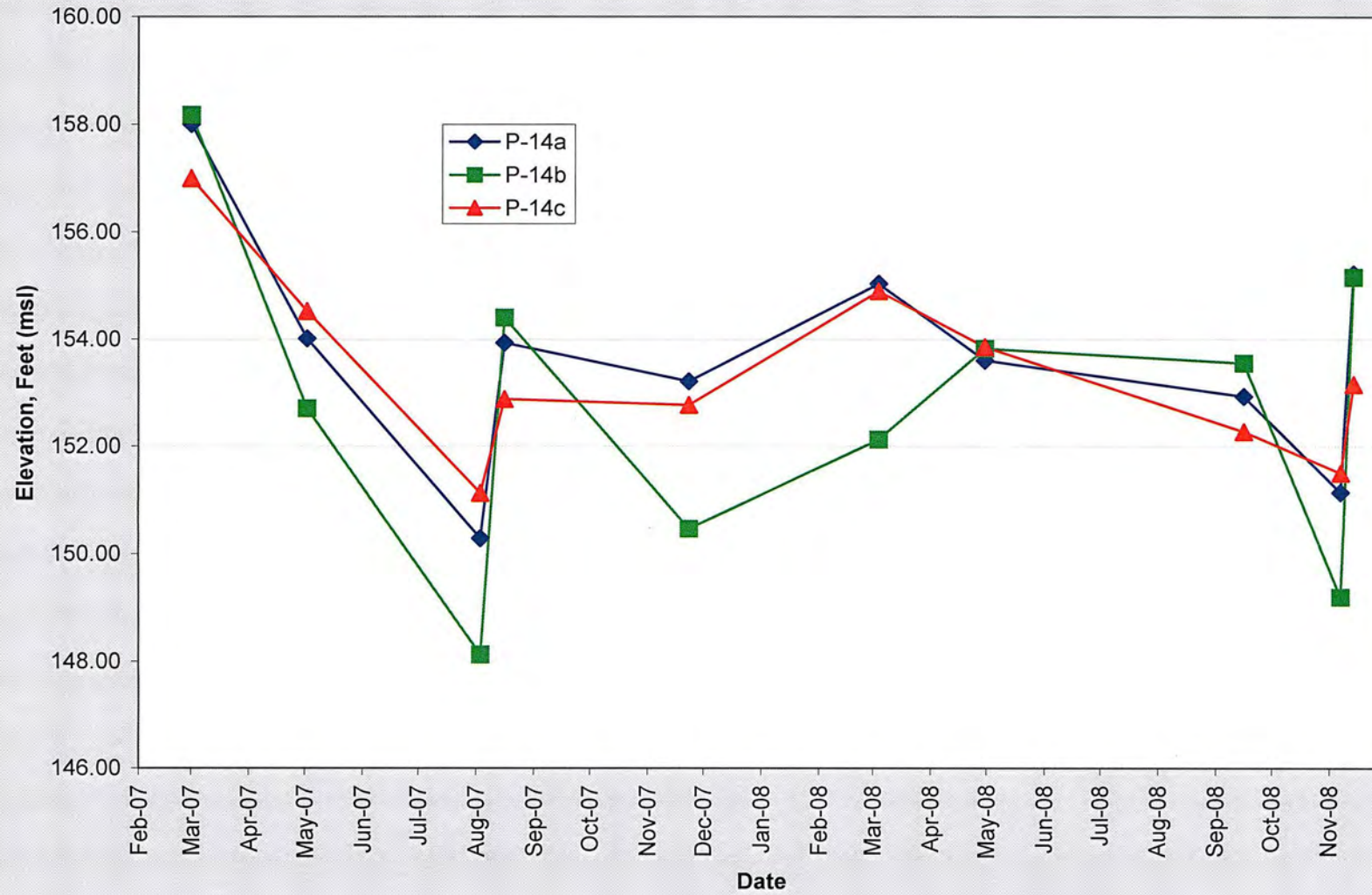
Groundwater Elevations P-11 Wells



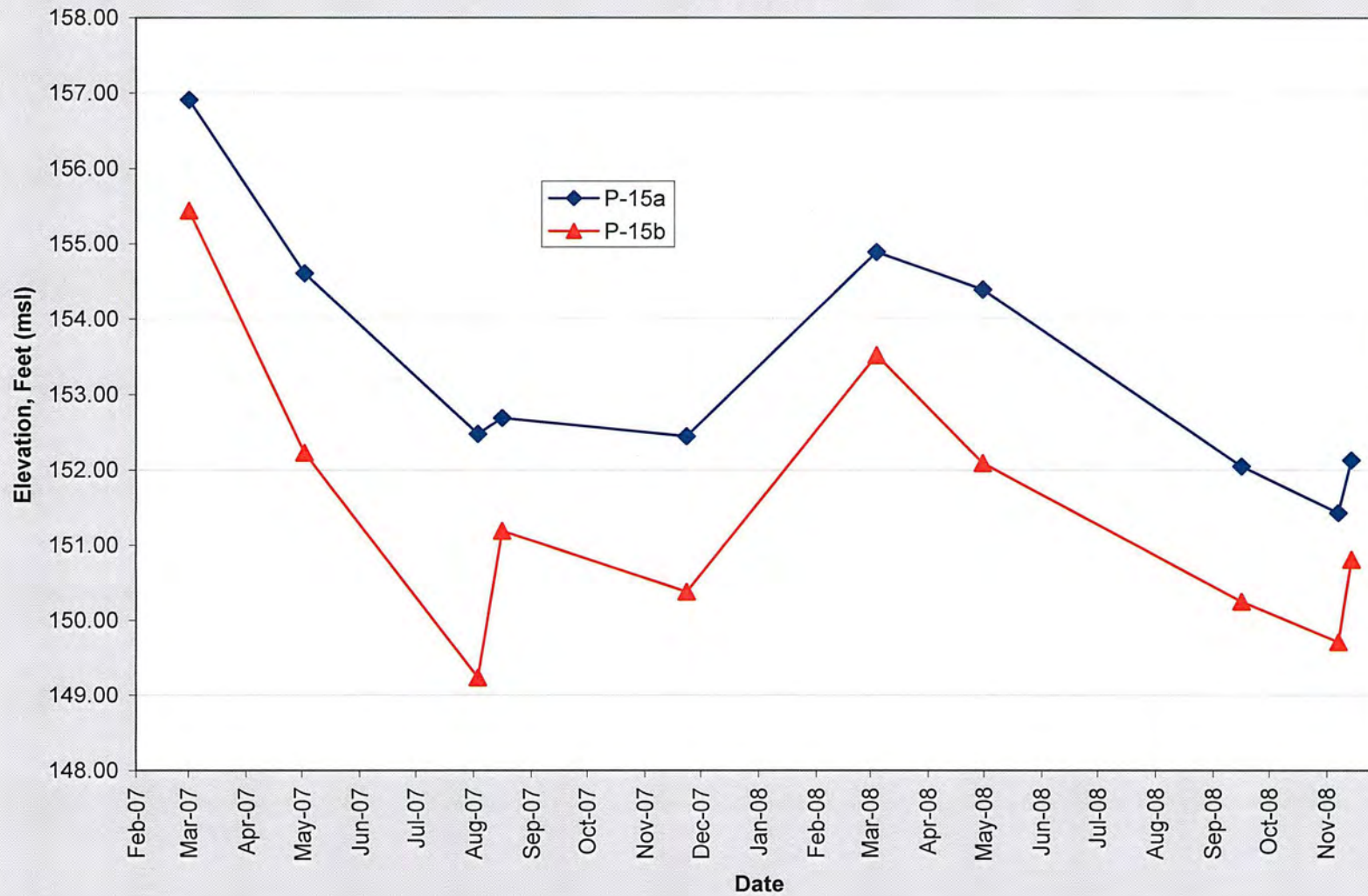
Groundwater Elevations P-12 Wells



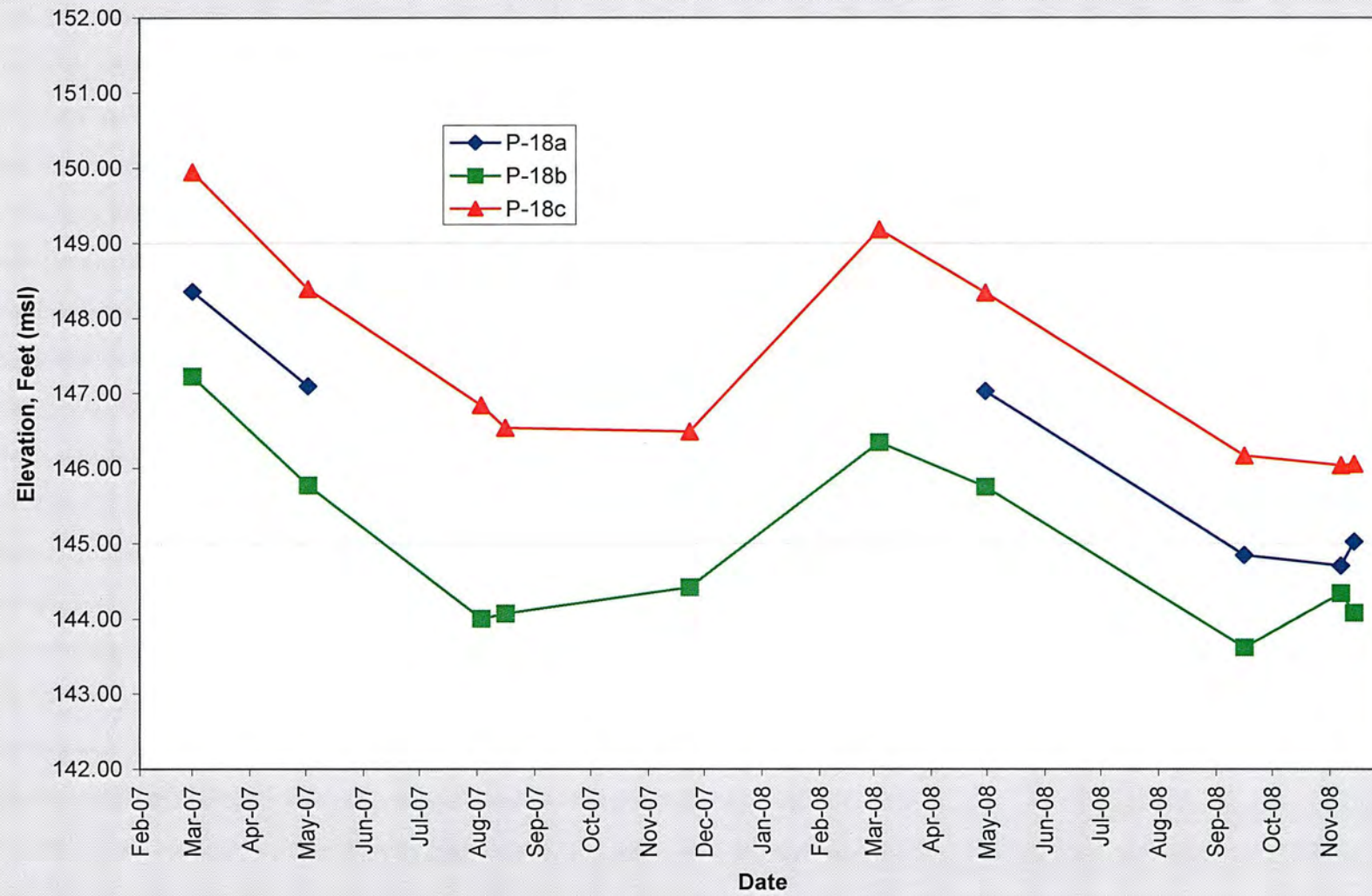
Groundwater Elevations P-14 Wells



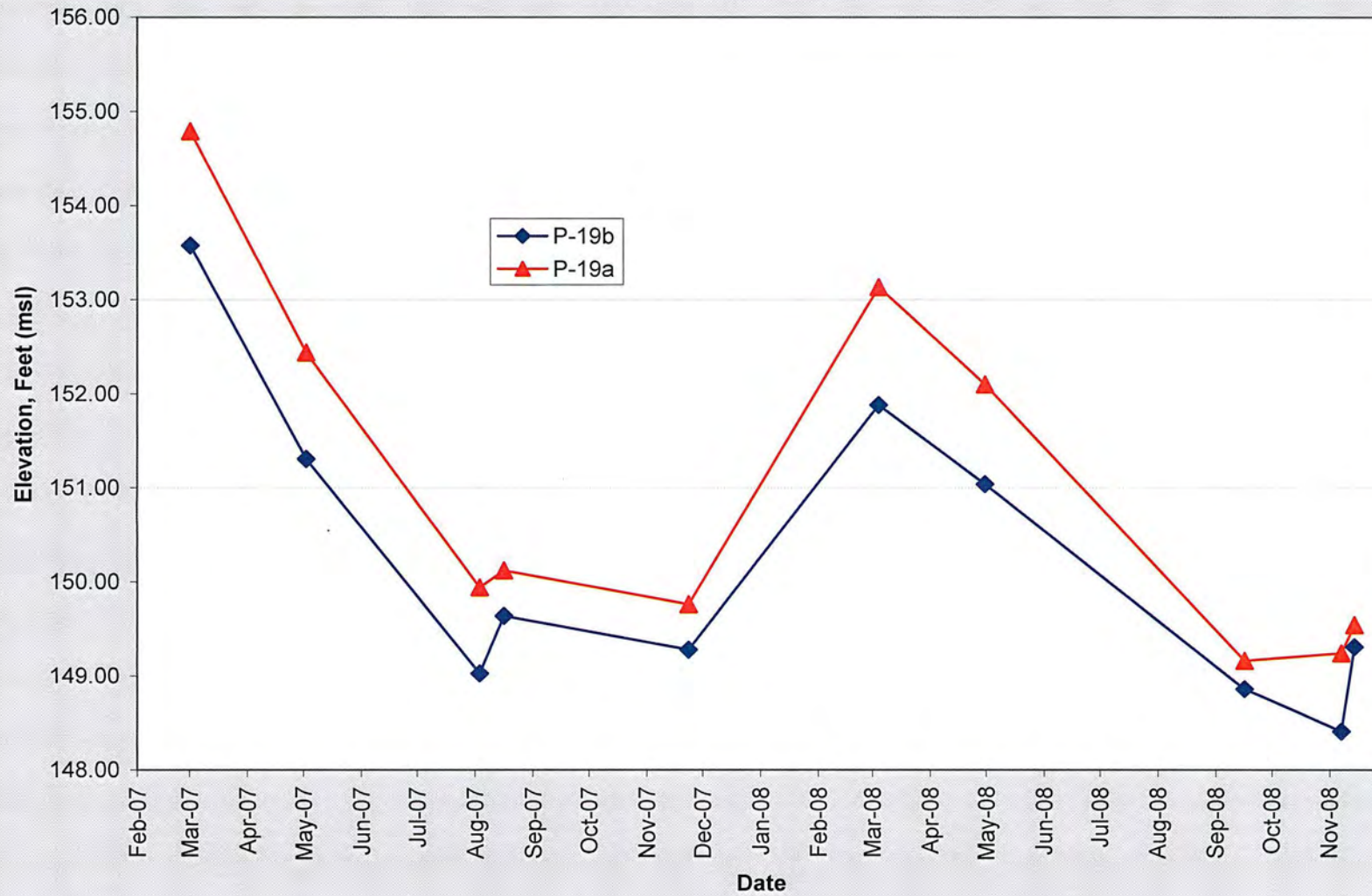
Groundwater Elevations P-15 Wells



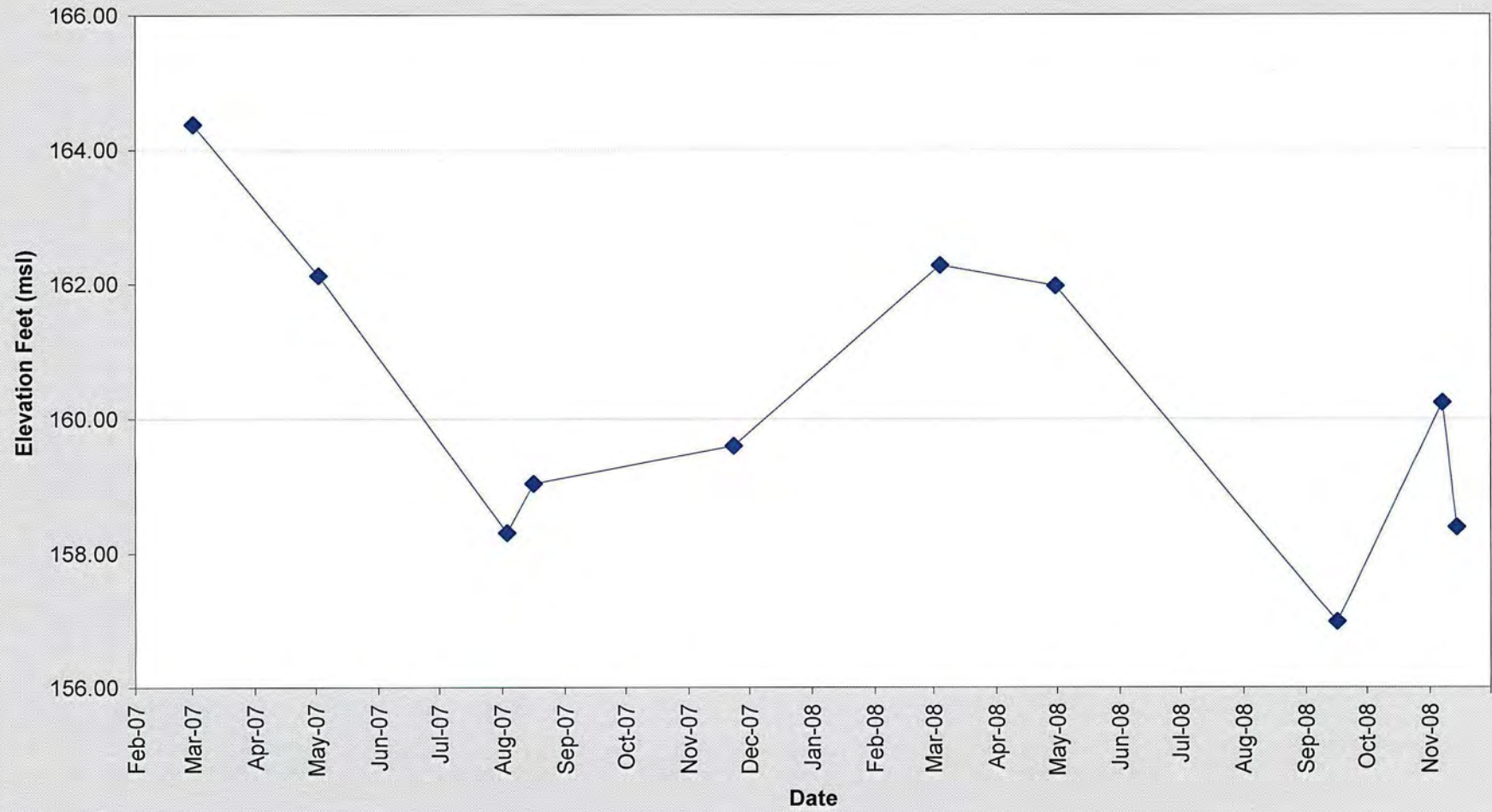
Groundwater Elevations P-18 Wells



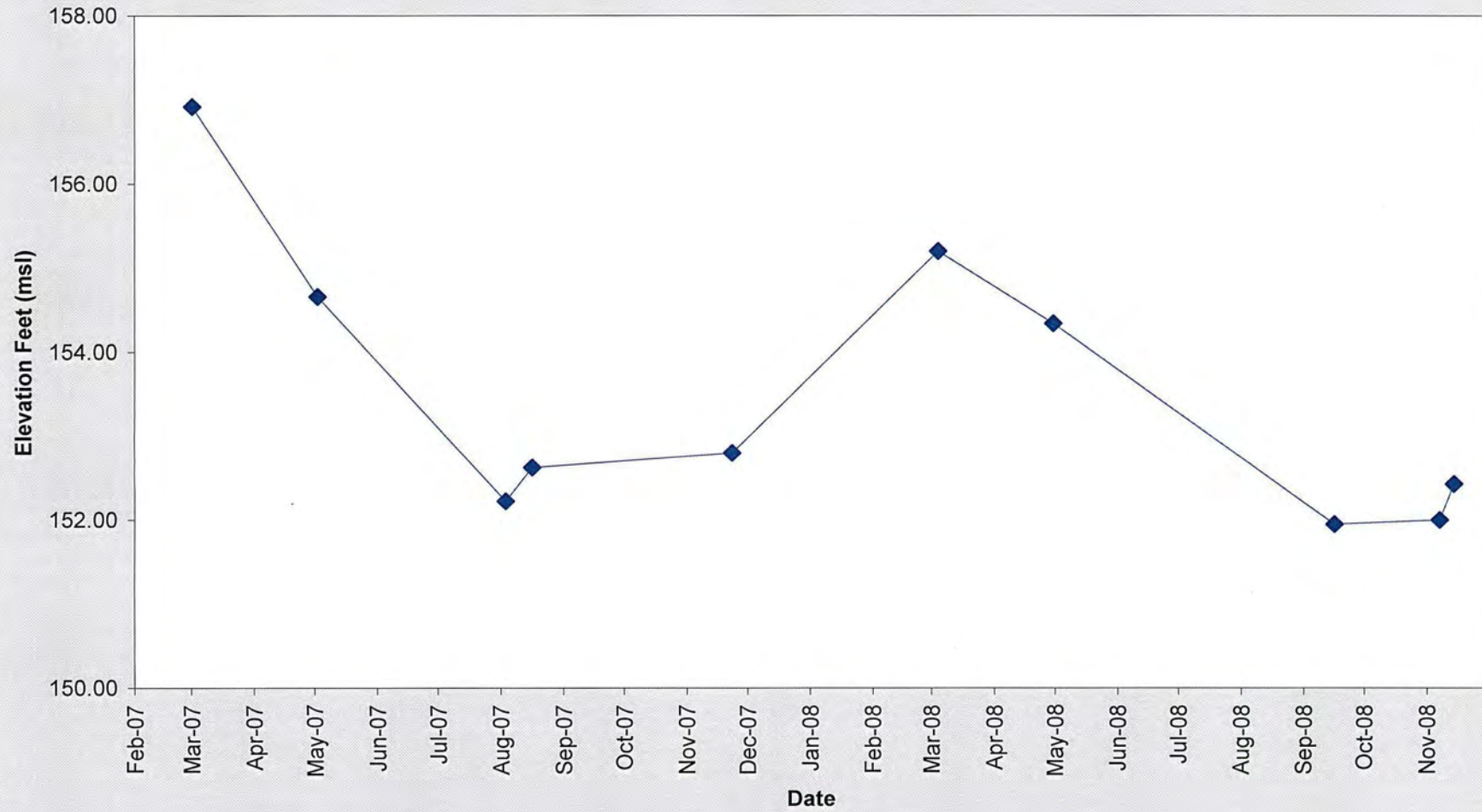
Groundwater Elevations P-19 Wells



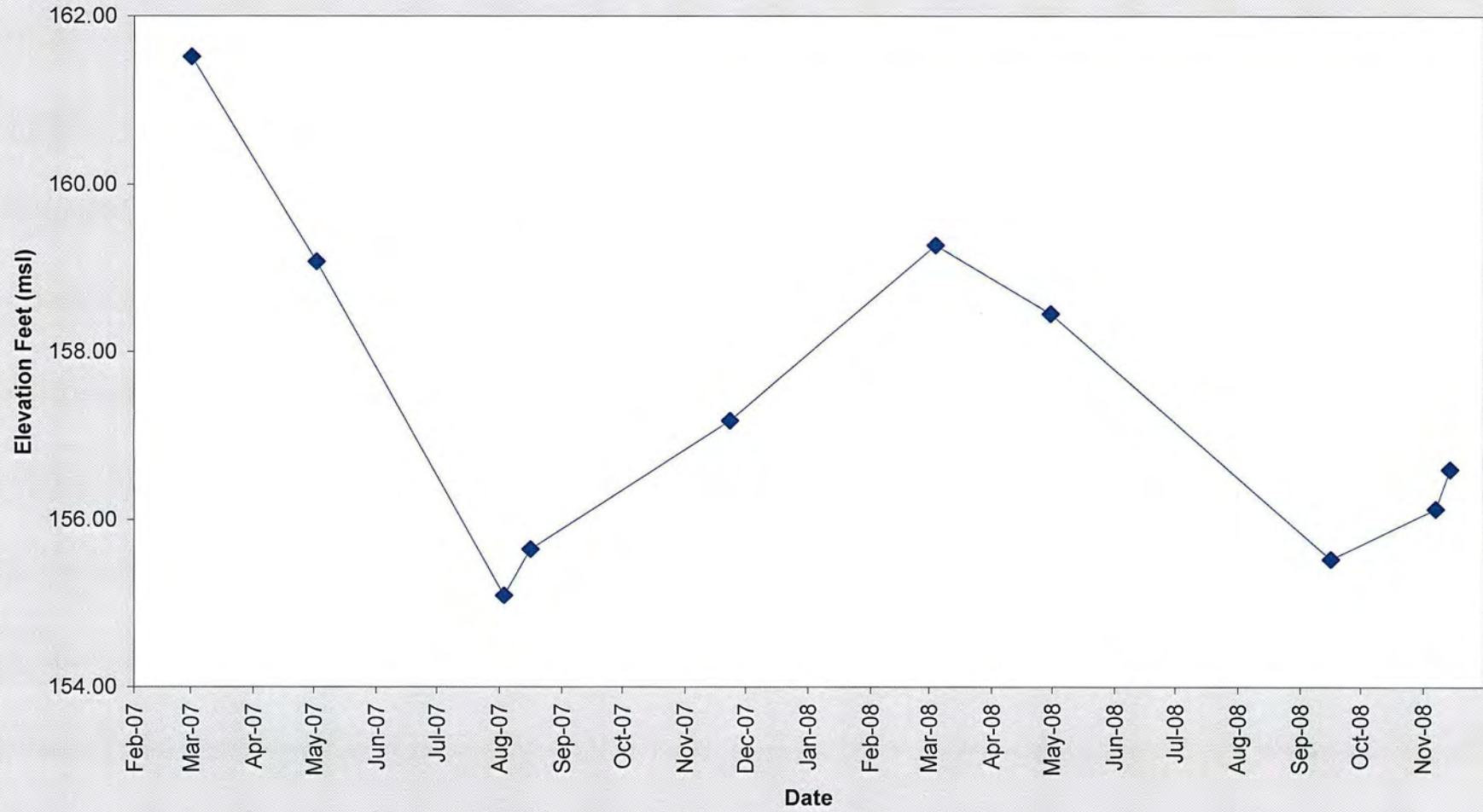
**Groundwater Elevations
Monitoring Well
P- 8**



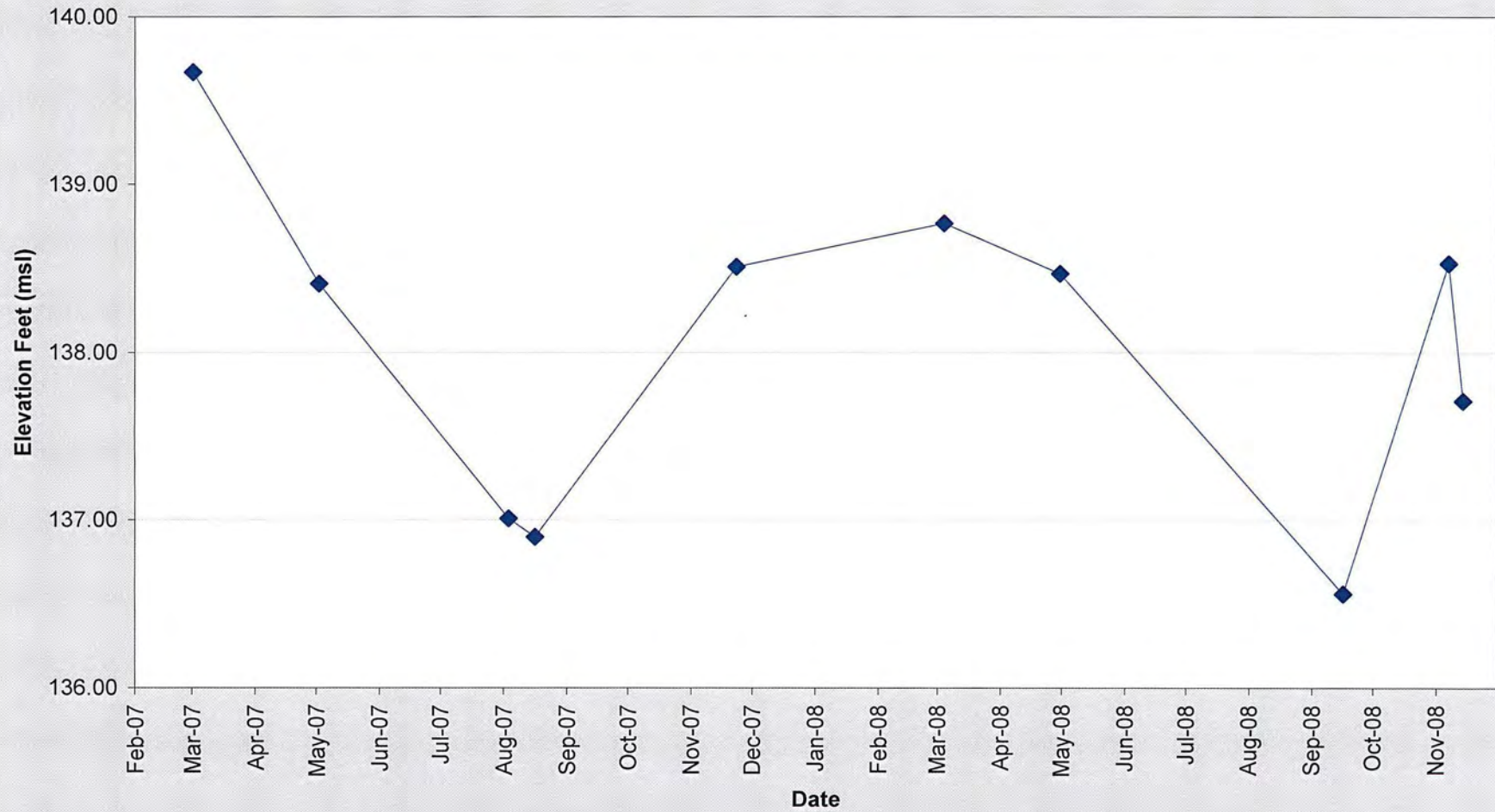
**Groundwater Elevations
Monitoring Well
P- 9**



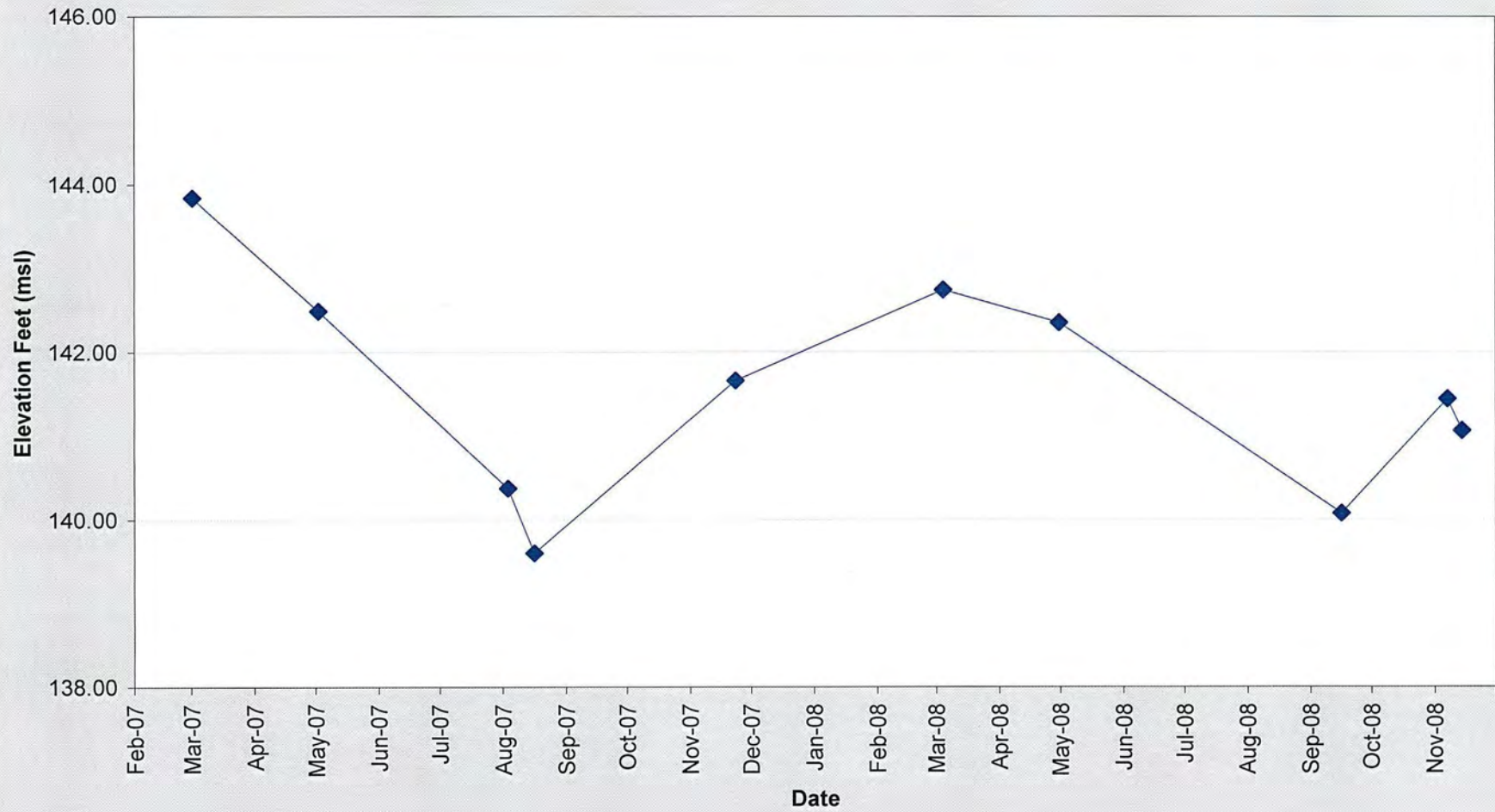
**Groundwater Elevations
Monitoring Well
P- 10**



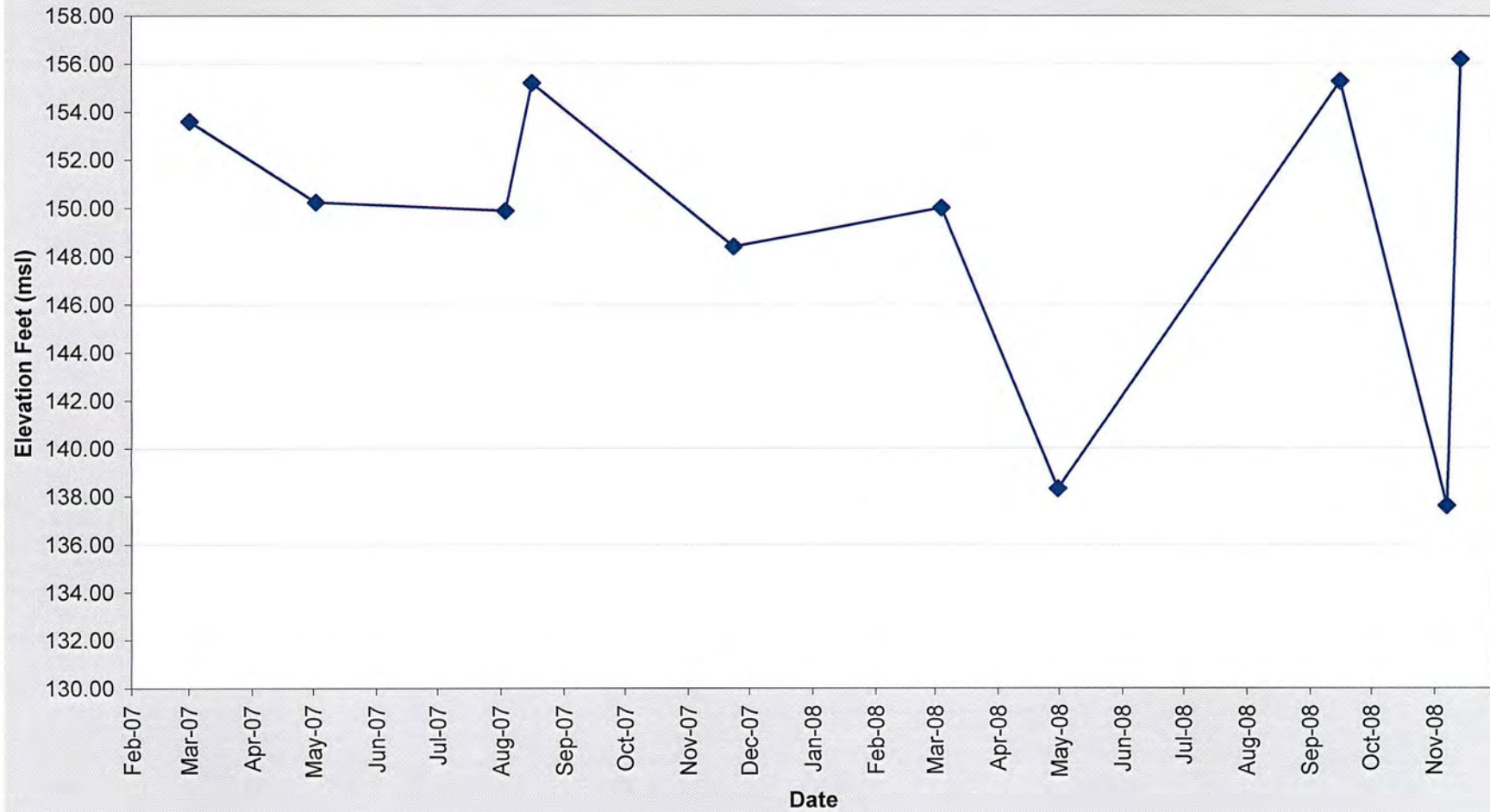
**Groundwater Elevations
Monitoring Well
P- 16**



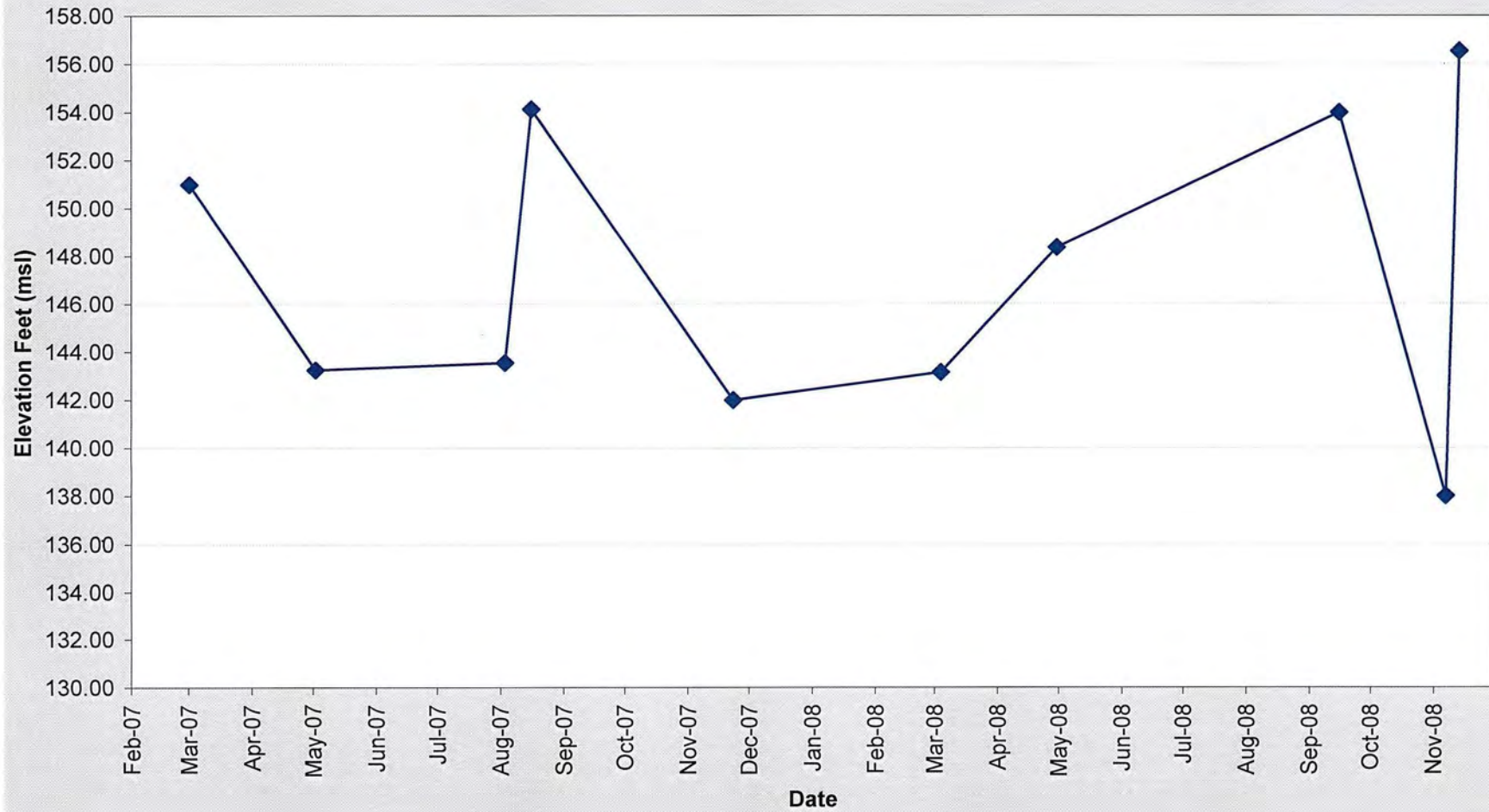
**Groundwater Elevations
Monitoring Well
P- 17R**



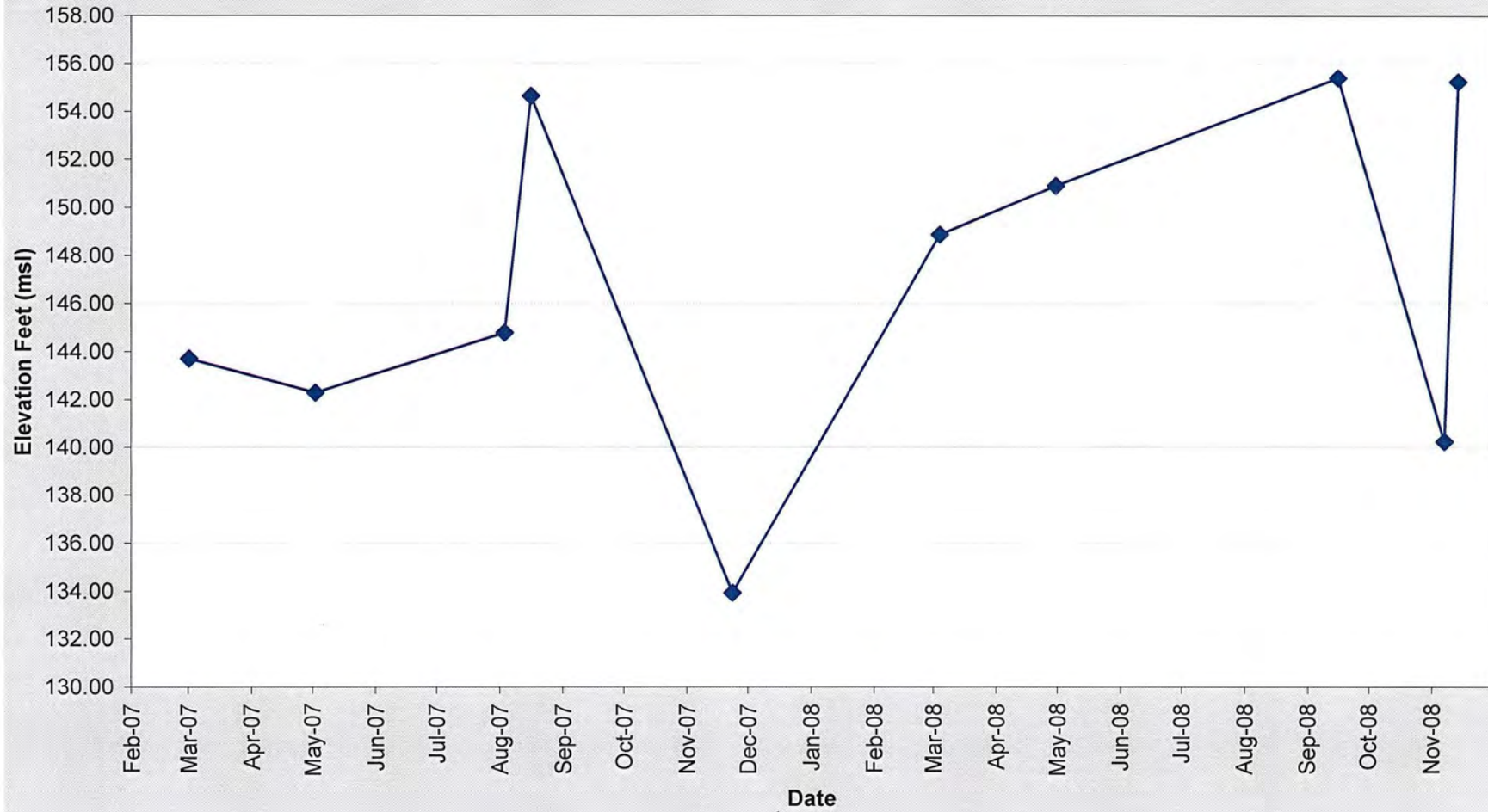
**Groundwater Elevations
Monitoring Well
R-1**



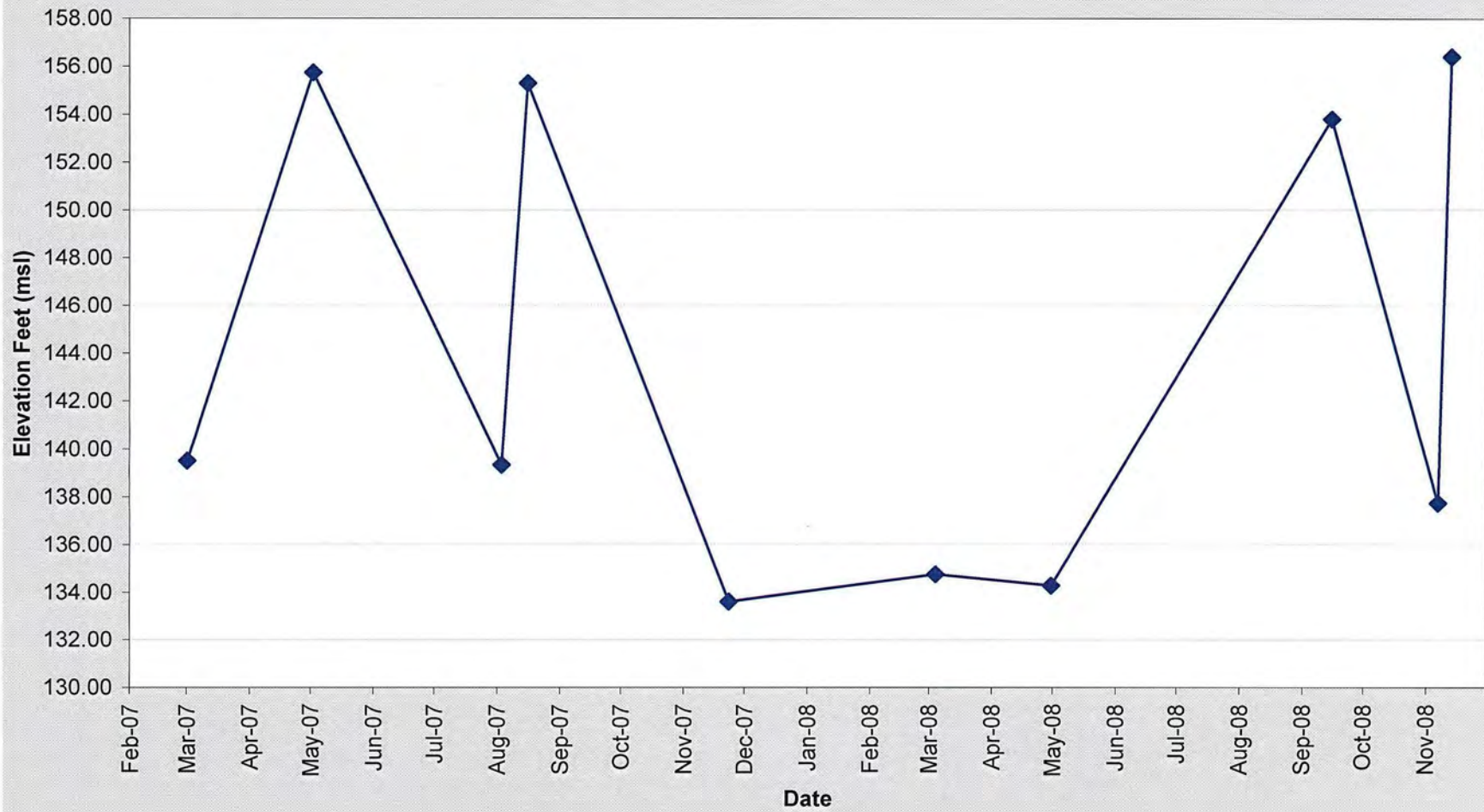
**Groundwater Elevations
Monitoring Well
R-2**



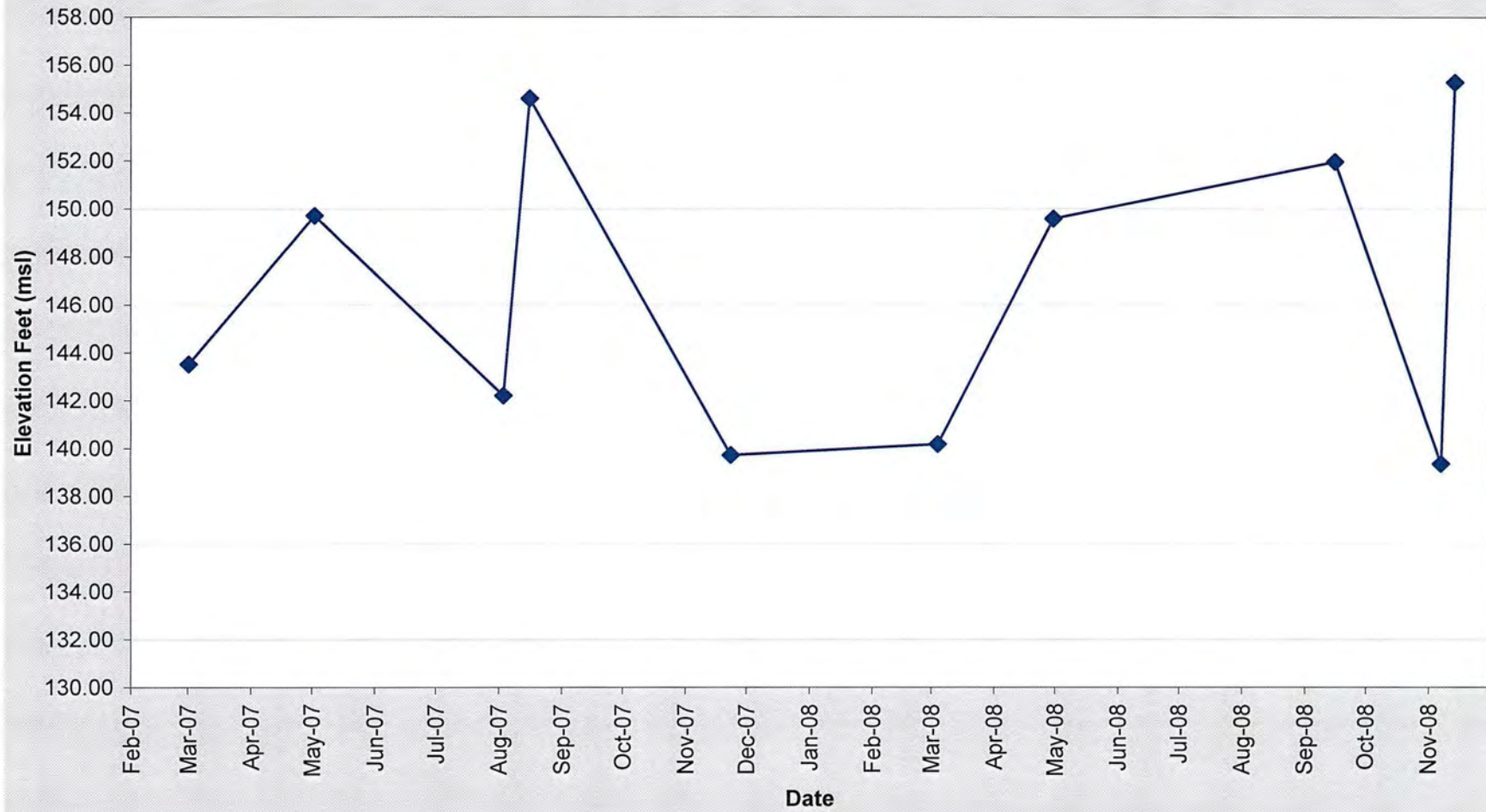
**Groundwater Elevations
Monitoring Well
R-3**



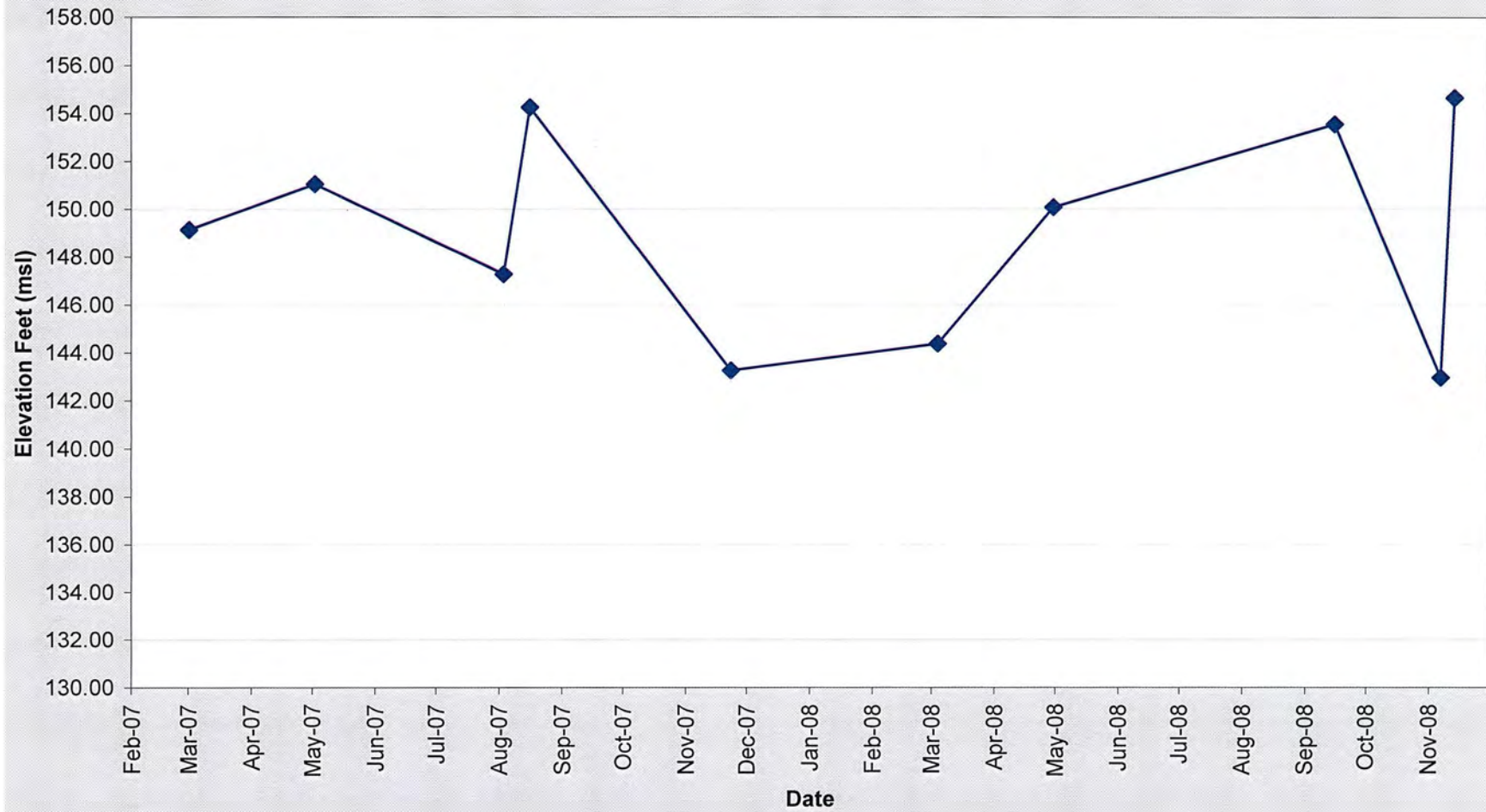
**Groundwater Elevations
Monitoring Well
R - 5**



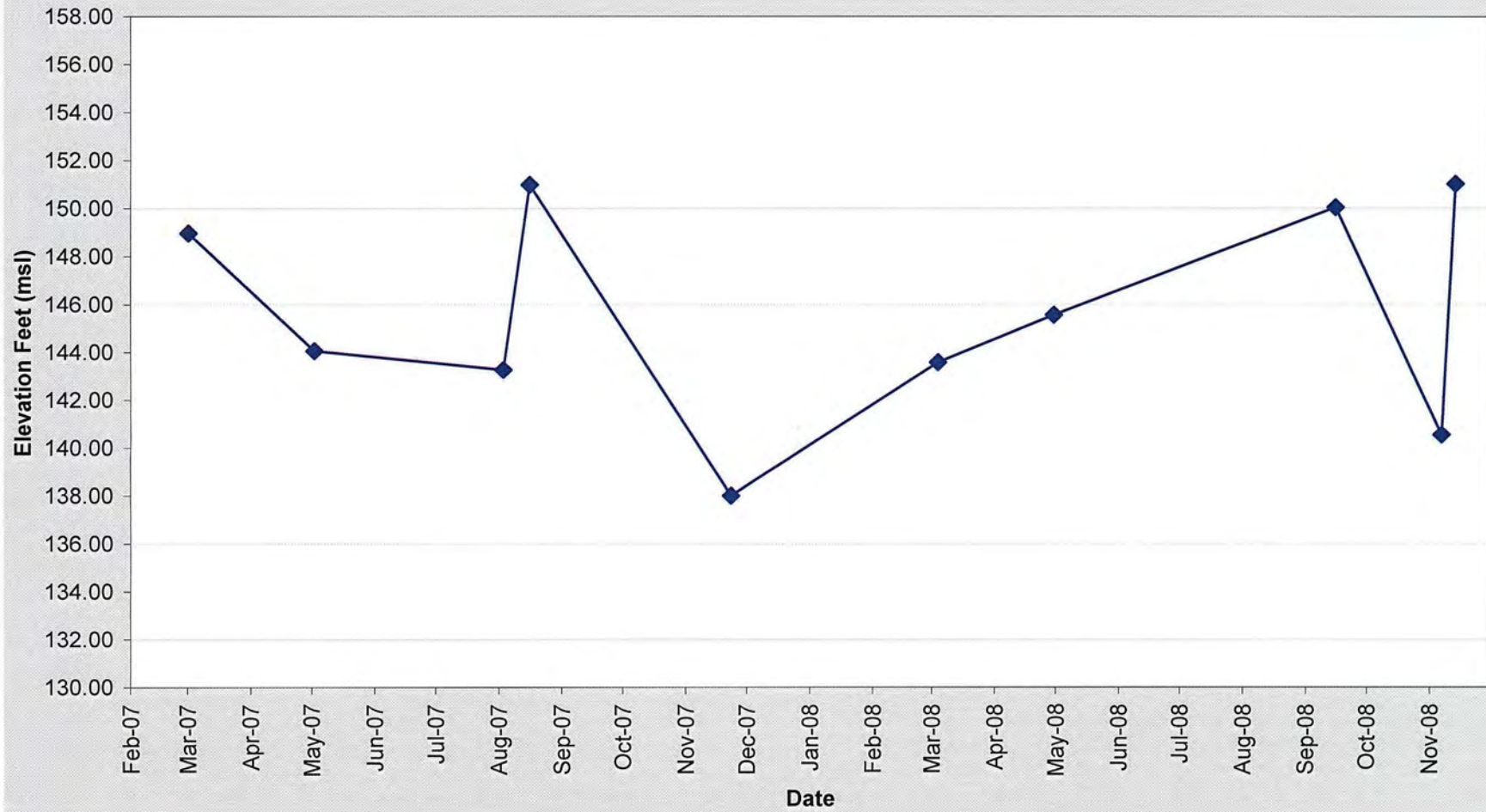
**Groundwater Elevations
Monitoring Well
R - 7**



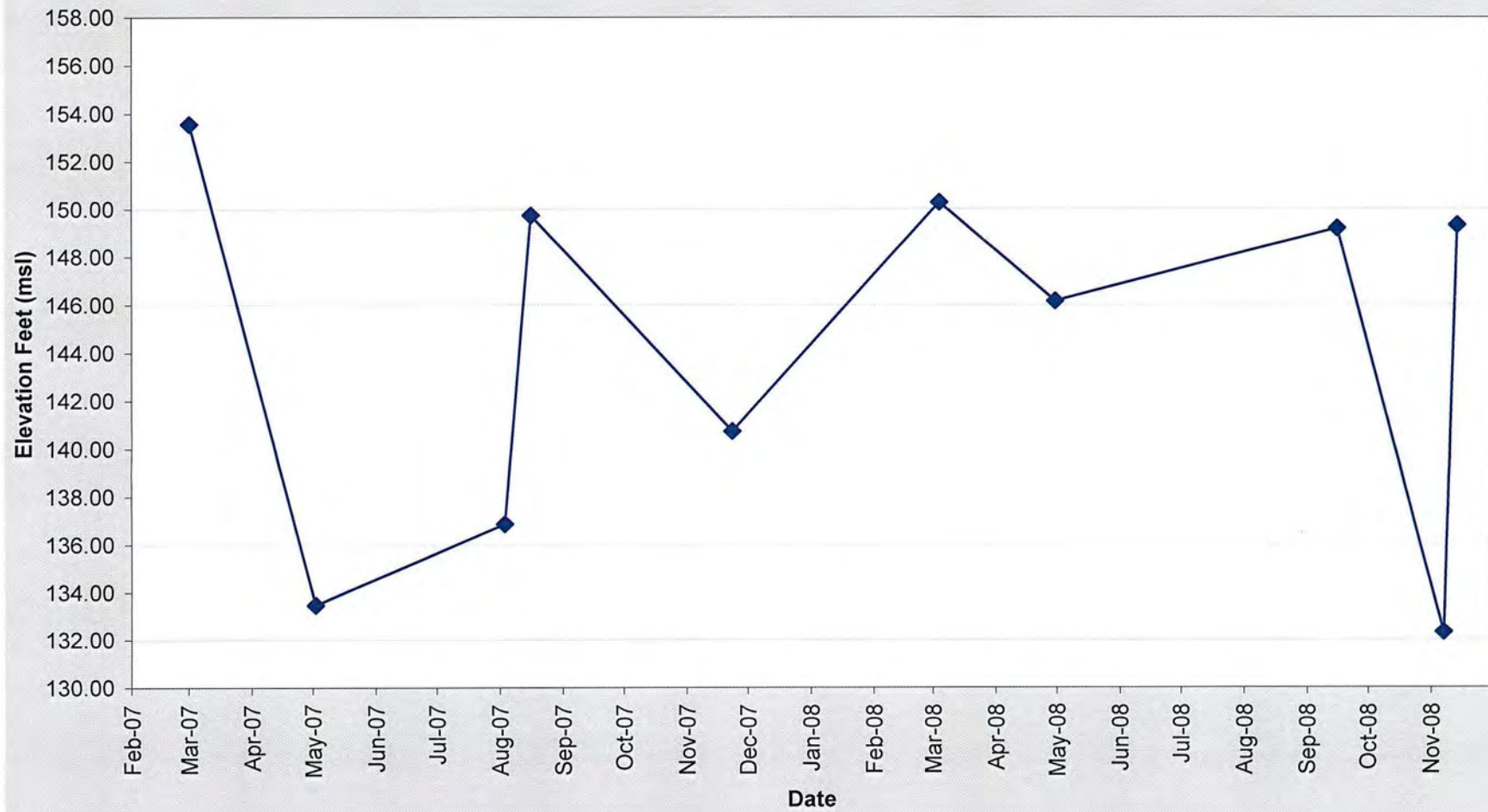
**Groundwater Elevations
Monitoring Well
R - 8**



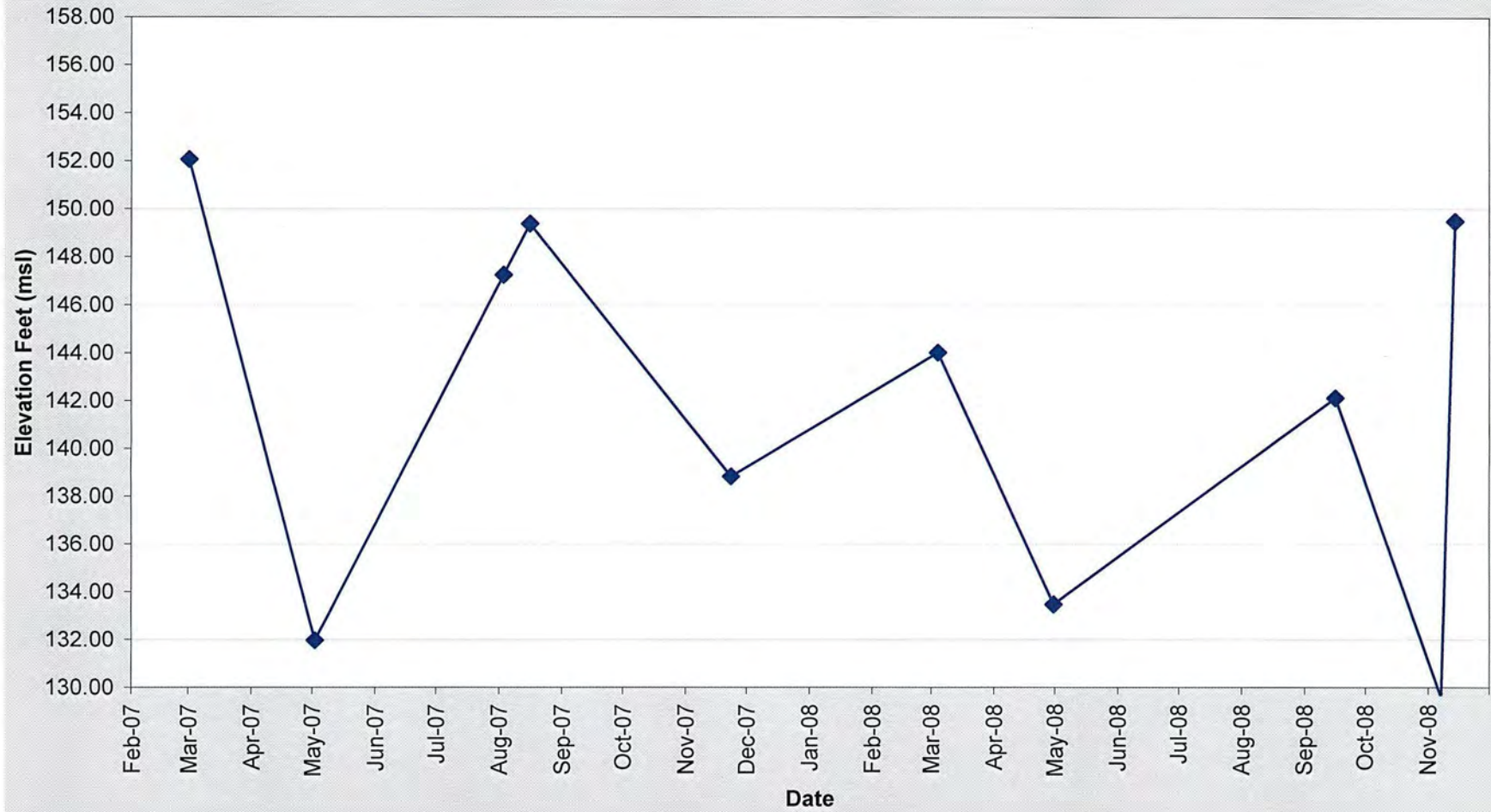
**Groundwater Elevations
Monitoring Well
R - 9**



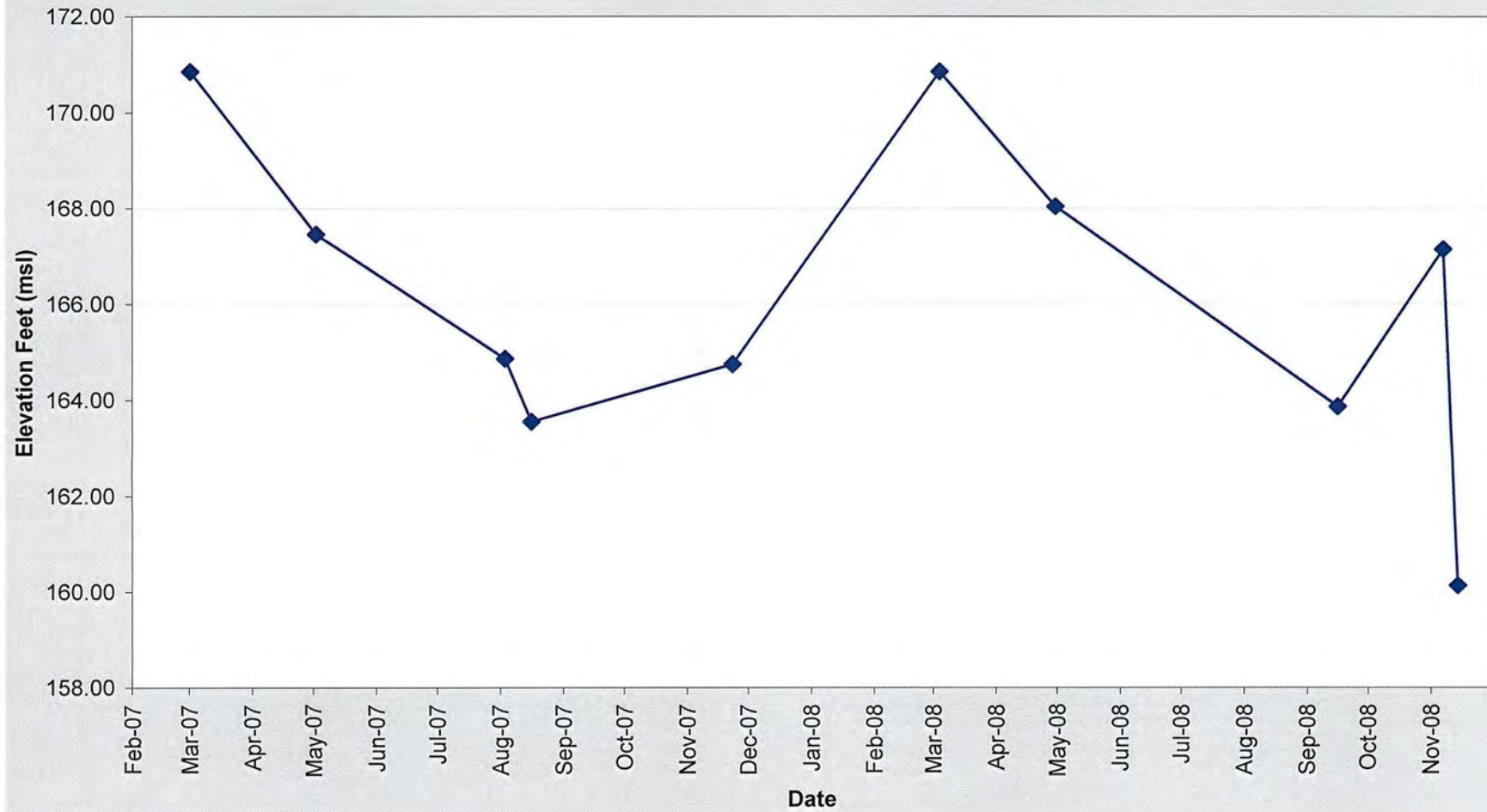
**Groundwater Elevations
Monitoring Well
R - 10**



**Groundwater Elevations
Monitoring Well
R - 11**



**Groundwater Elevations
Monitoring Well
RMP-1**



**Groundwater Elevations
Monitoring Well
RMP-2**

