

GROUND WATER ASSOCIATES, INC.

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January 9, 1996

RECEIVED

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Mr. Greg Sutton, P.E.
NYSDEC Region 9
270 Michigan Avenue
Buffalo, New York 14203

NYSDEC-REG. 9
FOIL
 REL UNREL

RE: **Comprehensive Monitoring Report, Remediation System Monitoring, Signore, Inc., Ellicottville, New York, NYSDEC Project No. 905023**

Dear Mr. Sutton;

This document presents the results of the Remedial Action Program implemented at the Signore, Inc. facility located in Ellicottville, New York (NYSDEC Site #905023) for the period from October, 1992 through October, 1994. This Program was implemented in response to ground water contamination associated with the Signore site. Discussed in this report will be:

- a summary of the first two years of Remediation Monitoring;
- an evaluation of the effectiveness of Remedial Measures, and;
- recommendations for the modification to the Remedial Program based upon these results and evaluation.

SITE BACKGROUND

The Signore facility has been the site of machining and fabrication of metal products for over 30 years. Past operation involved the use of volatile organic compounds (VOCs) in the painting and cleaning industrial processes. Releases of these VOCs to the environment resulted in the contamination of the ground water beneath the site and in the Great Valley Creek aquifer.

In response to the VOC release, Signore conducted a Remedial Investigation / Feasibility Study (RI/FS) to evaluate remedial actions. The FS, concluded in December 1991, recommended the following measures be implemented:

- Installation of an Interceptor Well (TWIW) upgradient of the Town Well;
- Connection of downgradient homeowners to public water supplies, and;
- Installation of an On-Site Interceptor Well (OSIW) to control off-site migration with an air stripping unit.

All remedial measures have been installed and long-term remediation monitoring began in October 1992 in accordance with the Remedial Action Monitoring Plan (RAMP) prepared for Signore in August 1992. This plan, approved by NYSDEC, involved sampling of Interceptor Wells (both TWIW, and OSIW) influent, OSIW effluent, ground water monitoring well sampling, and miscellaneous domestic well sampling. The list of wells sampled, frequency of sampling, and the sampling parameters for the RAMP are presented in this report.

TOWN WELL INTERCEPTOR WELL RESULTS

The Town Well Interceptor Well began pumping operations in April 1991 to intercept the VOCs contaminant plume before reaching the downgradient Town Well. Discharge from this well, approved by NYSDEC, is routed to an unnamed tributary to Great Valley Creek. No discharge treatment occurs other than the aeration of the water as it passes over the riprap bank protection materials.

Since beginning operation, the TWIW has been in essentially continuous service, pumping at an average rate of 200 gallons per minute (gpm). Effluent sampling from the well were collected quarterly for the VOCs, Trichloroethylene (TCE) and 1,1,1-Trichloroethane (TCA). In addition, on a semi-annual basis, samples were also analyzed for the additional chlorinated VOCs; Chloroethane (CE), 1,1-Dichloroethane (1,1-DCA), trans-1,2-Dichloroethylene (t-1,2-DCE), Tetrachloroethylene (PCE), and Vinyl Chloride (VC) by USEPA Method 524.2, and for the Metals; Aluminum, Chromium, Copper, Iron, Lead, Manganese, Nickel, and Zinc by USEPA 200-series methods.

Results of the TWIW well sampling for VOCs are presented on Table 1. Figure 1 presents a time-concentration plot for TCE and TCA. Review of the TWIW data show that TCE concentrations are consistently at or below 4 ug/L, and TCA concentrations of 2 to 3 ug/L. No significant increase or decrease in TCE or TCA concentrations has occurred since January 1993. No other VOCs were detected during this period, nor were any seasonal-related trends noted in the VOC data.

Results of the TWIW well sampling for metals are presented in Table 2. Comparison of the metals data to the surface water discharge limits since the two-year monitoring program began in October 1993, TWIW effluent is generally below discharge limits, with only sporadic exceedance of aluminum (11/93), copper (4/93), and lead (11/93) noted. The last two sampling events reported no concentrations exceeding discharge limits.

TOWN WELL SAMPLING

The Town of Ellicottville's well was also sampled semi-annually as part of this remediation monitoring program. This well was sampled for TCE and TCA only. Table 3 presents the results of the Town Well sampling, with the TCE and TCA results presented graphically on Figure 2. As shown on Figure 2, the TCE and TCA concentrations show a reduction, and have been at or below 5 ug/L since January 1993. TCE concentrations dropped from 8 to 4 ug/L and TCA dropped from 5 to 1 ug/L.

*Is the Town
Well in operation*

MISCELLANEOUS WELL SAMPLING

Table 3 also includes the results of the semi-annual sampling conducted at the Ellicottville School, both Main and Auxilliary wells, downgradient of the Town Well. In addition, the Burleson domestic well and the Germain domestic well were also sampled. These wells were sampled for TCE and TCA only. The domestic and school wells sampled have had concentrations at or below 2 ug/L since 1993.

ON-SITE INTERCEPTOR WELL

The On-Site Interceptor Well (OSIW) began pumping in February 1992 to intercept the VOC contaminant plume at the downgradient boundary of the Signore facility. Discharge from this well, approved by NYSDEC, is routed through an air stripping unit discharging to Plum Creek, a tributary to Great Valley Creek.

The OSIW has been in continuous service, pumping at an average rate of 225 gpm. Both influent and effluent sampling from the well were collected quarterly for TCE and TCA. In addition, on a semi-annual basis, samples were also analyzed for the additional chlorinated VOCs, CE, 1,1-DCA, t-1,2-DCE, PCE, and VC by USEPA Method 524.2, and for the Metals; Aluminum, Chromium, Copper, Iron, Lead, Manganese, Nickel, and Zinc by USEPA 200-series methods.

Results of the OSIW influent and effluent sampling for VOCs are presented on Table 4. Figure 3 presents a time-concentration plot for TCE and TCA influent. Review of these data shows that TCE and TCA concentrations in OSIW influent have decreased significantly during the operation of the system from over 40 ug/L for TCE and TCA to less than 10 ug/L. PCE is the only other VOC detected in the influent sampling at concentrations of 4 ug/L or less. Effluent sampling results have consistently been non-detect for all VOCs analyzed.

Results of the OSIW sampling for metals are presented in Table 5. Comparing the metals data for the effluent samples to the surface water discharge limits, the only exceedance occurring was aluminum (11/93) and copper (4/93). The last two sampling events reported no concentrations exceeding discharge limits.

MONITORING WELL SAMPLING

Controlling the migration of the ground water contaminant plumes off-site and to public drinking water supplies is the goal of the OSIW and TWIW systems. To monitor the effectiveness of these systems, several ground water monitoring wells were sampled as part of the Remedial Program. The wells selected for the RAMP program were chosen to provide data for the shallow, intermediate, and deep portions of the Great Valley Creek aquifer.

The on-site monitoring wells were sampled and analyzed for TCE and TCA only according to the following schedule. Quarterly samples were collected from MW-1I and EW-1.50. Semi-annual samples were collected from MW-4I, MW-5I, MW-8I, MW-9I, and EW-2.50. Annual samples were collected from on-site monitoring wells MW-1S, MW-1D, MW-4S, MW-5S, MW-8S, EW-1.25, and EW-2.25.

Off-site monitoring wells were also sampled and analyzed for TCE and TCA only, according to the following schedule. EW-4.50, EW-6.50, IRM-1, and IRM-2I were sampled quarterly. EW-5.50, EW-7.50, and IRM-3I were sampled semi-annually, and EW-3.50 annually.

Table 6 presents the TCE and TCA sampling results for the on-site RAMP monitoring wells. Table 7 presents the off-site RAMP monitoring well sampling results. All other non-RAMP monitoring wells installed at the Signore site as part of the remedial investigations have been properly abandoned in accordance with NYSDEC guidance. The abandonment report for these activities is presented as Attachment 1 to this report.

EXTENT OF CONTAMINATION

Review of the VOC data from the on-site monitoring wells indicates the VOC contaminant plume is located in the immediate vicinity of the OSIW. Monitoring wells EW-1.25, EW-1.50, and MW-1I exhibited VOC concentrations above 5 ug/L and are all located within 60 feet of the OSIW, within the zone of capture exerted by the well. MW-9I also had a TCE concentration just above 5 ug/L, at 6 ug/L, however this well is also in close proximity and upgradient of the OSIW (approximately 240 feet).

The EW-series off-site monitoring wells continue to have only sporadic "hits" of TCE at low (< 2 ug/L) levels. IRM-1 and IRM-2I located in the immediate vicinity of the TWIW continue to have low (< 5 ug/L) levels of TCA and TCE, concentrations similar to the TWIW.

With respect to vertical stratification of the aquifer, the shallow (± 25 feet) and the deep zones (> 60 feet) are not impacted. The intermediate zone, in which the OSIW and TWIW are screened, continues to be the only zone, on-site or off-site, impacted by VOCs.

With respect to trends developing in the monitoring well data, wells that did exhibit TCE and TCA concentrations have had concentrations decline over the course of monitoring with the exception of the latest sampling event. The increase was noted in each of the wells in the vicinity of the OSIW in the October 1994 data.

SUMMARY OF REMEDIAL PROGRAM

The intermediate zone in the vicinity of the TWIW (and Town Well) continues to exhibit residual levels of TCE and TCA at or below 5 ug/L, with the Town Well below 5 ug/L TCE throughout 1994. Monitoring wells located between the OSIW and TWIW have only sporadic 1 or 2 ug/L detections. Wells located on-site, have had no significant increases noted in the with the exception of the October 1994 data. Contamination appears to be controlled by the remediation system, as no new "hits" were seen in any off-site or on-site monitoring wells during this period.

RECOMMENDATIONS

Based upon the first two years of the Remedial Action Monitoring Program, it appears that the nature and extent of contamination are adequately characterized and that the remedial actions are effectively remediating the aquifer.

Therefore, it is recommended that a reduction in the sampling frequency for the monitoring wells, according to the schedule presented in Table 8. Essentially, it is proposed that the off-site and on-site monitoring well sampling schedule be reduced in half, i.e., those wells previously sampled quarterly are now proposed for semi-annually, those semi-annual to annual, and those sampled annually to remain annual or in some cases not sampled. Those wells proposed for inactive status will not be abandoned at this time.

Those on-site monitoring wells proposed for inactive status include MW-1S and MW-8I. MW-1S is near the OSIW and shallow well EW-1.25. Recommended sampling at these nearby points should provide data for the shallow zone in this area. MW-8I is also proposed for inactive status because of its location in close proximity to, and upgradient of EW-2.50 which will continue to be sampled.

An annual sampling schedule for the off-site RAMP monitoring wells is proposed. No VOC concentrations above 5 ug/L have been detected since December 1992 (EW-4.50 with TCE at 8 ug/L).

Additionally, VOC results for the off-site miscellaneous wells, (the two school wells, Germain, and Burleson) have not changed significantly since monitoring began in 1990, with the levels fluctuating around 2 ug/L. Therefore, it is proposed to delete the Burleson and Germain domestic wells and the School auxillary well from the Remedial Program, with the schedule for the Main school well kept to a semi-annual basis. The RAMP sampling of the Town Well shall continue on a semi-annual basis.

The proposed sampling schedule for the OSIW (effluent and influent) and TWIW effluent is to continue on the quarterly sampling schedule for TCE and TCA only. The metals and the other VOCs have not shown indications of a persistent contaminant level of these other constituents. Because of difficult access conditions to the TWIW, it is proposed that the sample be collected at the outfall rather than in the well pit tap.

In summary, the data suggests that the OSIW is effectively controlling and remediating any significant contaminant plume within the boundaries of the site. Additionally, the residual contamination in the aquifer near the TWIW is being controlled and remediated by the TWIW. Therefore, Signore, Inc. is requesting your approval of these recommendations for these reductions in the long-term sampling program. Should you have questions regarding this report, please contact me at (716) 381-5460 or Jeff Schick at (614) 882-3136.

Sincerely,
GROUND WATER ASSOCIATES, INC.



Norm Gardner, C.P.G.
District Manager

c.c. James Fitzpatrick, Signore
Cameron O'Conner, NYSDOH
Gary Beck, CCHD

TABLE 1
Town Well Interceptor Well Sampling
VOC Results

Date	CE	1,1-DCA	t-1,2-DCE	PCE	1,1,1-TCA	TCE	VC
04/25/91	---	---	---	0.23	4.3	6.7	---
05/06/91	ND	ND	1	0.22	4.1	6	ND
05/20/91	---	---	---	0.24	4.6	6.3	---
06/06/91	ND	ND	ND	0.19	3.5	4.5	ND
06/19/91	---	---	---	0.29	4.2	6.5	---
07/23/91	ND	ND	ND	1	4	5.6	2
08/05/91	ND	ND	1	1	4.2	5.9	ND
09/30/91	ND	ND	ND	0.17	3.4	4.9	ND
10/15/91	---	---	---	0.2	3.4	5	---
10/30/91	ND	ND	ND	0.2	4	6	ND
11/21/91	---	---	---	0.3	5	6	---
12/13/91	ND	ND	ND	0.2	4	6	ND
01/02/92	---	---	---	0.2	4	6	---
12/15/92	---	---	---	---	2.9	5.1	---
01/28/93	---	---	---	---	3	4	---
04/26/93	ND	ND	ND	ND	2	4	ND
07/13/93	---	---	---	---	3	3	---
11/16/93	ND	ND	ND	ND	2	4	ND
02/14/94	---	---	---	---	2	4	---
04/26/94	ND	ND	ND	ND	3	3	ND
07/11/94	---	---	---	---	2	4	---
10/13/94	ND	ND	ND	ND	ND	4	ND

- 1.) All Concentration are reported in micrograms/Liter, ug/L.
- 2.) "----" - Not Analyzed
- 3.) "ND" - Not detected at method detection limit
- 4.) "B" - Indicates parameter detected in Quality Assurance Sample.

TABLE 2
Town Well Interceptor Well Sampling
Metals Results

	Aluminum	Chromium	Copper	Iron	Lead	Nickel	Zinc
04/25/91	---	---	---	---	---	---	---
05/06/91	ND	ND	10	130	33	ND	90
05/20/91	---	---	---	---	---	---	---
06/06/91	110	29	9	ND	14	ND	26
06/19/91	---	---	---	---	---	---	---
07/23/91	ND	ND	ND	31 B	4 B	ND	36
08/05/91	130	ND	16 B	240	3 B	ND	71
09/30/91	ND	ND	13	ND	5	ND	41
10/15/91	---	---	---	---	---	---	---
10/30/91	ND	ND	910	ND	ND	ND	290
11/21/91	---	---	---	---	---	---	---
12/13/91	ND	ND	12	460	6	ND	180
01/02/92	---	---	---	---	---	---	---
12/15/92	---	---	---	---	---	---	---
01/28/93	---	---	---	---	---	---	---
04/26/93	ND	1	20	ND	1	ND	16
07/13/93	---	---	---	---	---	---	---
11/16/93	200	1	ND	230	11	ND	340
02/14/94	---	---	---	---	---	---	---
04/26/94	ND	ND	ND	80	3	ND	48
07/11/94	---	---	---	---	---	---	---
10/13/94	ND	ND	ND	ND	ND	ND	ND

- 1.) All Concentration are reported in micrograms/Liter, ug/L.
 - 2.) "---" - Not Analyzed
 - 3.) "ND" - Not detected at method detection limit
 - 4.) "B" - Indicates parameter detected in Quality Assurance Sample.
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TABLE 3
Miscellaneous Well Sampling
VOC Results

	Town Well		Main School Well		Auxiliary School Well		Burleson		Germain	
	TCE	TCA	TCE	TCA	TCE	TCA	TCE	TCA	TCE	TCA
06/25/90	--	--	2.0	ND	ND	ND	2.0	ND	2.0	ND
12/05/90	8.0	5.0	2.2	ND	ND	ND	2.9	ND	1.7	ND
06/11/91	6.3	5.0	1.7	0.8	ND	ND	2.4	0.3	1.9	0.7
01/07/92	7.0	4.0	3.0	1.0	0.1	ND	3.0	0.3	2.0	1.0
12/15/92	6.1	3.5	1.9	0.6	ND	ND	2.2	ND	1.2	ND
04/26/93	--	--	1.0	ND	ND	ND	2.0	ND	1.0	ND
07/13/93	4.0	2.0	--	--	--	--	--	--	--	--
11/16/93	5.0	1.0	2.0	ND	ND	ND	2.0	ND	2.0	ND
04/26/94	4.6	2.0	1.5	ND	ND	ND	--	--	1.0	ND
10/13/94	4.0	1.0	1.0	ND	ND	ND	--	--	1.0	ND

- 1.) All concentrations are reported in micrograms/Liter, ug/L.
- 2.) "--" - Not Analyzed
- 3.) "ND" - Not detected at method detection limit.

TABLE 4
On-Site Interceptor Well Sampling
VOC Results

Date	CE		1,1-DCA		t-1,2-DCE		PCE		1,1,1-TCA		TCE		VC	
	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
02/17/92	ND	ND	5	ND	4	ND	4	ND	48	0.4	55	0.7	ND	ND
04/02/92	---	---	---	---	---	---	3	ND	16	0.6	24	1.1	---	---
04/15/92	ND	ND	ND	ND	ND	ND	9	ND	47	0.8	54	1.4	ND	ND
05/04/92	---	---	---	---	---	---	4.5	ND	18	ND	27	ND	---	---
06/01/92	---	---	---	---	---	---	4.2	ND	9.2	ND	18	ND	---	---
06/15/92	ND	ND	1.2	ND	ND	ND	3.9	ND	9.9	ND	18	ND	ND	ND
07/17/92	ND	ND	1.2	ND	ND	ND	3.7	ND	11	ND	17	0.6	ND	ND
08/03/92	ND	ND	0.9	ND	ND	ND	3.9	ND	8.4	ND	14	0.6	ND	ND
08/21/92	ND	ND	2	ND	ND	ND	5.6	ND	11	ND	17	0.6	ND	ND
09/03/92	---	---	---	---	---	---	3.4	ND	8.4	ND	15	ND	---	---
09/23/92	ND	ND	0.8	ND	ND	ND	3.3	ND	8.8	ND	13	ND	ND	ND
10/02/92	---	---	---	---	---	---	3.1	ND	9	ND	15	ND	---	---
12/15/92	---	---	0.6	---	---	---	2.7	---	7.3	ND	13	ND	---	---
01/28/93	---	---	---	---	---	---	---	---	8	ND	12	ND	---	---
03/25/93	ND	ND	ND	ND	ND	ND	4	ND	8	ND	12	ND	ND	ND
04/26/93	---	ND	---	ND	---	ND	---	ND	---	ND	---	ND	---	ND
07/13/93	---	---	---	---	---	---	---	---	5	ND	7	ND	---	---
11/16/93	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	7	ND	ND	ND
02/14/94	---	---	---	---	---	---	---	---	12	ND	27	ND	---	---
04/26/94	ND	ND	ND	ND	ND	ND	3	ND	7	ND	7	ND	ND	ND
07/11/94	---	---	---	---	---	---	---	---	5	ND	8	ND	---	---
10/13/94	ND	ND	ND	ND	ND	ND	2	ND	3	ND	8	ND	ND	ND

- 1.) All Concentration are reported in micrograms/Liter, ug/L.
- 2.) "---" - Not Analyzed
- 3.) "ND" - Not detected at method detection limit

TABLE 5
On-Site Interceptor Well Sampling
Metals Results

Date	Aluminum		Chromium		Copper		Iron		Lead		Nickel		Zinc	
	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent	Influent	Effluent
02/17/92	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/02/92	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/15/92	---	ND	---	316	---	ND	---	946	---	ND	---	ND	---	ND
05/04/92	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/01/92	---	---	---	---	---	---	---	---	---	---	---	---	---	---
06/15/92	---	ND	---	ND	---	ND	---	ND	---	ND	---	ND	---	ND
07/17/92	---	ND	---	ND	---	ND	---	68	---	ND	---	ND	---	ND
08/03/92	---	ND	---	ND	---	ND	---	ND	---	ND	---	ND	---	ND
08/21/92	---	ND	---	ND	---	ND	---	ND	---	ND	---	ND	---	ND
09/03/92	---	---	---	---	---	---	---	---	---	---	---	---	---	---
09/23/92	---	ND	---	ND	---	ND	---	ND	---	ND	---	ND	---	ND
10/02/92	---	---	---	---	---	---	---	---	---	---	---	---	---	---
12/15/92	---	---	---	---	---	---	---	---	---	---	---	---	---	---
01/28/93	---	---	---	---	---	---	---	---	---	---	---	---	---	---
03/26/93	---	100	---	1	---	30	---	70	---	3	---	40	---	20
04/26/93	---	ND	---	1	---	ND	---	ND	---	1	---	ND	---	ND
07/13/93	---	---	---	---	---	---	---	---	---	---	---	---	---	---
11/16/93	---	200	---	1	---	ND	---	110	---	ND	---	ND	---	24
02/14/94	---	---	---	---	---	---	---	---	---	---	---	---	---	---
04/26/94	ND	ND	ND	1	ND	ND	150	ND	2	2	ND	ND	48	7
07/11/94	---	---	---	---	---	---	---	---	---	---	---	---	---	---
10/13/94	ND	ND	ND	ND	20	ND	ND	ND	ND	ND	ND	ND	ND	ND

- 1.) All Concentration are reported in micrograms/Liter, ug/L.
- 2.) "----" - Not Analyzed
- 3.) "ND" - Not detected at method detection limit

TABLE 6
On-site Monitoring Well Sampling Results
VOC Results

	01/15/89	06/28/90	12/21/92	01/26/93	04/26/93	07/13/93	11/01/93	02/14/94	04/26/94	07/11/94	10/13/94
MW-1s	TCE	1	ND	--	--	--	ND	--	--	--	ND
	TCA	ND	ND	--	--	--	ND	--	--	--	ND
MW-1i	TCE	110	66	54	36	6	1	5	5	2	17
	TCA	19	2	1	1	ND	ND	ND	ND	ND	ND
MW-1d	TCE	--	ND	--	--	--	ND	--	--	--	ND
	TCA	--	ND	--	--	--	ND	--	--	--	ND
MW-4s	TCE	53	1	--	--	--	4	--	--	--	2
	TCA	15	2	--	--	--	2	--	--	--	ND
MW-4i	TCE	11	24	--	13	--	ND	--	34	--	ND
	TCA	1	2	--	ND	--	ND	--	3	--	ND
MW-5s	TCE	150	74	--	--	--	6	--	--	--	--
	TCA	ND	ND	--	--	--	ND	--	--	--	--
MW-5i	TCE	ND	ND	--	ND	--	ND	--	1	--	ND
	TCA	1	ND	--	ND	--	ND	--	1	--	ND
MW-8s	TCE	ND	--	--	--	--	--	--	--	--	--
	TCA	ND	--	--	--	--	--	--	--	--	--
MW-8i	TCE	1	ND	--	ND	--	ND	--	ND	--	ND
	TCA	ND	ND	--	ND	--	ND	--	ND	--	ND
MW-9i	TCE	20	ND	--	3	--	7	--	4	--	6
	TCA	ND	ND	--	ND	--	3	--	2	--	3
EW-1.25	TCE	--	67	--	--	--	6	--	--	--	100
	TCA	--	140	--	--	--	7	--	--	--	23
EW-1.50	TCE	--	7	ND	7	ND	ND	2	2	1	10
	TCA	--	14	ND	9	ND	ND	2	3	ND	16
EW-2.25	TCE	--	2	--	--	--	ND	--	--	--	ND
	TCA	--	ND	--	--	--	ND	--	--	--	ND
EW-2.50	TCE	--	ND	--	ND	--	ND	--	ND	--	ND
	TCA	--	ND	--	ND	--	ND	--	ND	--	ND

TABLE 7
Off-site Monitoring Well Sampling Results
VOC Results

	01/15/89	06/28/90	12/21/92	01/26/93	04/26/93	07/13/93	11/01/93	02/14/94	04/26/94	07/11/94	10/13/94
EW-3.50	TOE	--	ND	--	--	--	ND	--	--	--	1
	TCA	--	ND	--	--	--	ND	--	--	--	ND
EW-4.50	TOE	--	8	ND	2	ND	2	ND	ND	ND	2
	TCA	--	4	2	ND	ND	ND	ND	ND	ND	ND
EW-5.50	TOE	--	2	--	ND	--	ND	--	ND	--	2
	TCA	--	ND	--	ND	--	ND	--	ND	--	ND
EW-6.50	TOE	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
	TCA	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
EW-7.50	TOE	--	2	--	2	--	ND	--	ND	--	ND
	TCA	--	1	--	ND	--	ND	--	ND	--	ND
IRM-1	TOE	--	5	6	5	5	6	5	4	5	4
	TCA	--	5	4	4	4	5	3	2	4	1
IRM-2i	TOE	--	4	5	4	4	6	5	4	5	4
	TCA	--	3	3	2	2	3	2	2	2	2
IRM-3i	TOE	--	2	--	ND	--	ND	--	ND	--	1
	TCA	--	1	--	ND	--	ND	--	ND	--	ND

TABLE 1
Remediation Monitoring Program
Proposed Schedule Revisions

Sampling Location	Sampling Schedule First Two Years	Sampling Schedule Beginning April 1996
MW-1S	Annual	Inactive
MW-1I	Quarterly	Semi-Annual
MW-1D	Annual	Annual
MW-2I	Inactive	Annual
MW-4S	Annual	Annual
MW-4I	Semi-Annual	Annual
MW-5S	Annual	Annual
MW-5I	Semi-Annual	Annual
MW-6I	Inactive	Inactive
MW-8I	Semi-Annual	Inactive
MW-9I	Semi-Annual	Annual
MW-10I	Inactive	Inactive
EW-1.25	Annual	Semi-Annual
EW-1.50	Quarterly	Semi-Annual
EW-2.25	Annual	Annual
EW-2.50	Semi-Annual	Semi-Annual
EW-3.50	Annual	Annual
EW-4.50	Quarterly	Annual
EW-5.50	Semi-Annual	Annual
EW-6.50	Quarterly	Annual
EW-7.50	Semi-Annual	Annual
IRM-1	Quarterly	Annual
IRM-2I	Quarterly	Semi-Annual
IRM-3I	Semi-Annual	Annual
OSIW Influent	Quarterly	Semi-Annual
OSIW Effluent	Quarterly	Semi-Annual
TWIW Effluent	Quarterly	Semi-Annual
Town Well	Semi-Annual	Semi-Annual
Main School Well	Semi-Annual	Annual
Aux. School Well	Semi-Annual	Annual
Germain	Semi-Annual	Inactive
Burleson	Semi-Annual	Inactive

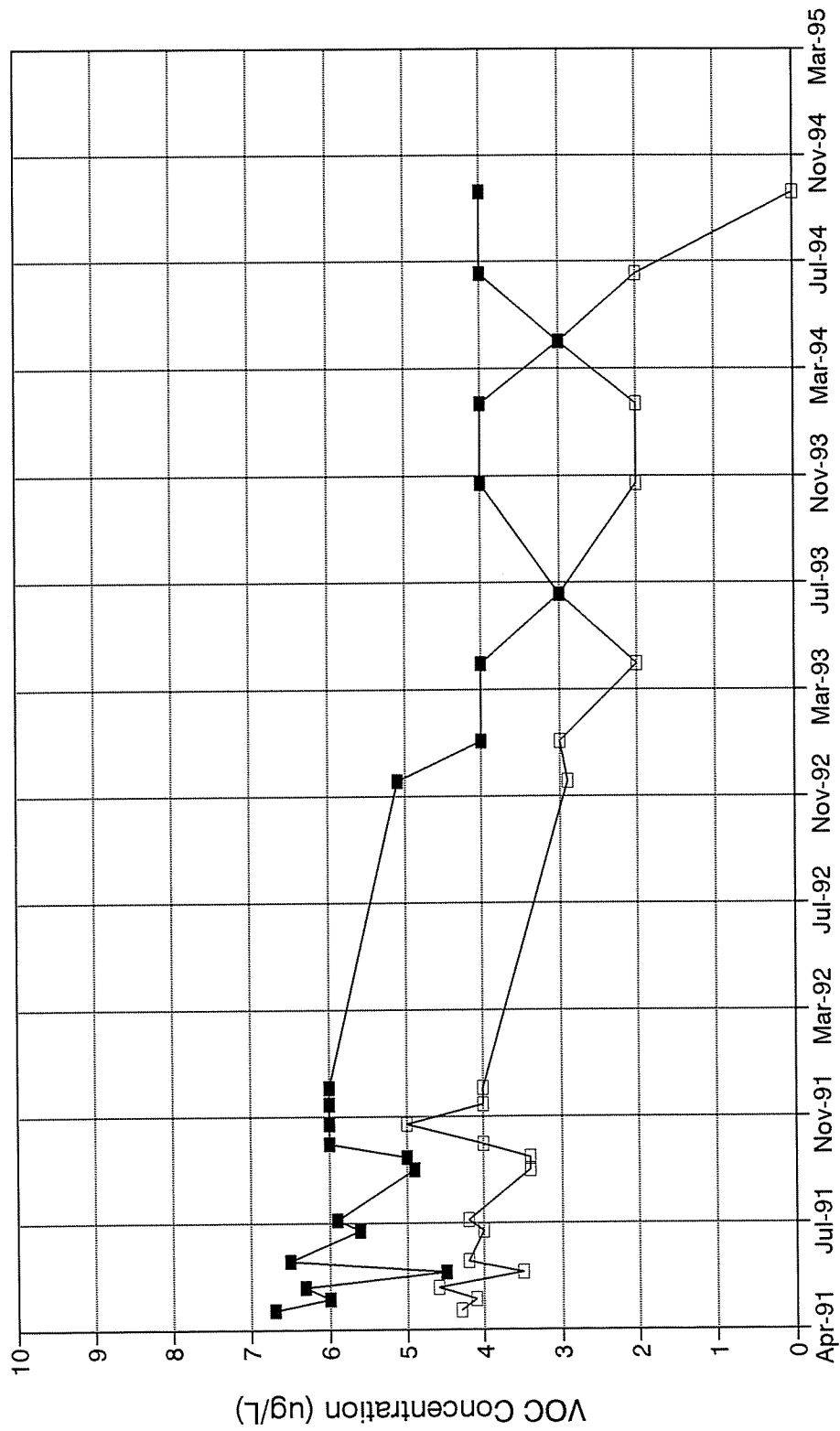
Modified by ltr. 3/1/96
GP. Sutton

Handwritten signature/initials

TABLE 8
Remediation Monitoring Program
Proposed Schedule Revisions

Monitoring Well	Sampling Schedule First Two Years	Sampling Schedule Beginning 1996
MW-1S	Annual	Inactive
MW-1I	Quarterly	Semi-Annual
MW-1D	Annual	Annual
MW-2I	Inactive	Annual
MW-4S	Annual	Annual
MW-4I	Semi-Annual	Annual
MW-5S	Annual	Annual
MW-5I	Semi-Annual	Annual
MW-6I	Inactive	Inactive
MW-8I	Semi-Annual	Inactive ✓
MW-9I	Semi-Annual	Annual ✓
MW-10I	Inactive	Inactive
EW-1.25	Annual	Annual Semi-
EW-1.50	Quarterly	Semi-Annual ✓
EW-2.25	Annual	Annual
EW-2.50	Semi-Annual	Semi-Annual
EW-3.50	Annual	Annual
EW-4.50	Quarterly	Annual ✓
EW-5.50	Semi-Annual	Annual
EW-6.50	Quarterly	Annual ✓
EW-7.50	Semi-Annual	Annual
IRM-1	Quarterly	Annual ✓
IRM-2I	Quarterly	Annual Semi
IRM-3I	Semi-Annual	Annual
OSIW Influent	Quarterly	Quarterly Semi
OSIW Effluent	Quarterly	Quarterly Semi
TWIW Effluent	Quarterly	Quarterly Semi
Town Well	Semi-Annual	Semi-Annual
Main School Well	Semi-Annual	Semi-Annual
Aux. School Well	Semi-Annual	Inactive Annual
Germain	Semi-Annual	Inactive ✓
Burleson	Semi-Annual	Inactive ✓

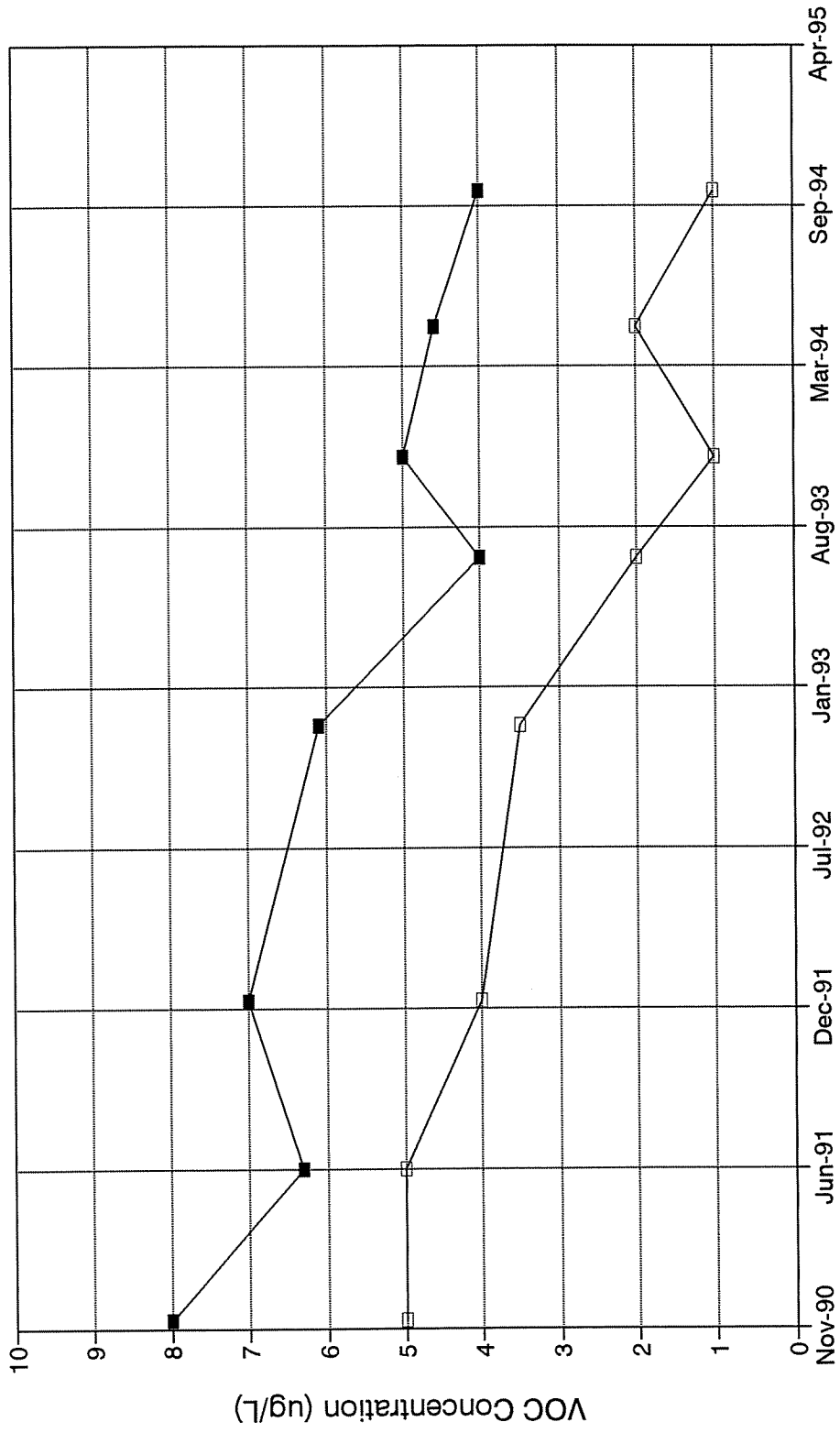
Town Well Interceptor Well
 Signore Facility, Ellicottville, NY



—■— TCE —□— TCA

FIGURE 1

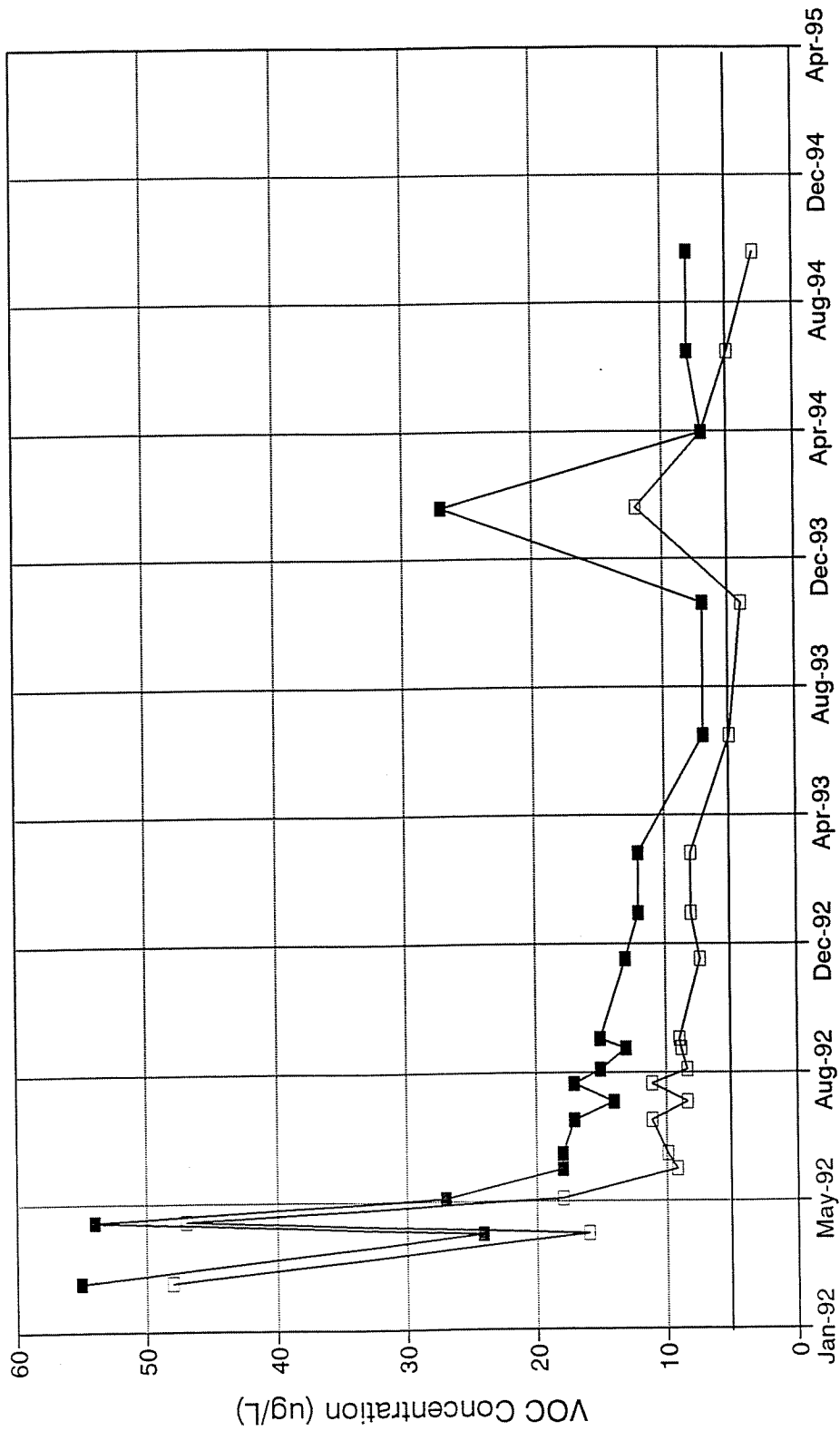
Town Well
Signore Facility, Ellicottville, NY



—■— TCE —□— TCA

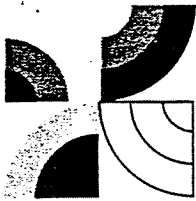
FIGURE 2

On-Site Interceptor Well Influent
 Signore Facility, Ellicottville, NY



—■— TCE —□— TCA

FIGURE 3



FREE-COL LABORATORIES, INC.

P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
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5815 AIRPORT ROAD
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J. RICHARD WOHLER, Ph.D.
LABORATORY DIRECTOR
MEADVILLE, PENNSYLVANIA

KENNETH G. HART
LABORATORY DIRECTOR
ROANOKE, VIRGINIA

12/21/92

TO: SIGNORE INC.

P.O. # P006422-01

43 JEFFERSON ST. P.O. BOX 1448
ELLICOTTVILLE NY 14731-1448

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 1

LAB ID	SAMPLE ID	PARAMETER	RESULT
		UNITS = MG/L	
21215027	OSIW-IN 12/15/92	1,1,1-TRICHLOROETHA*	0.0073
21215028	OSIW-OUT 12/15/92	1,1,1-TRICHLOROETHA*	<0.0005
21215029	BURLESON 12/15/92	1,1,1-TRICHLOROETHA*	<0.0005
21215030	GERMAIN 12/15/92	1,1,1-TRICHLOROETHA*	<0.0005
21215031	TOWN WELL 12/15/92	1,1,1-TRICHLOROETHA*	0.0035
21215032	MAIN SCHOOL 12/15/92	1,1,1-TRICHLOROETHA*	0.0006
21215033	AUX. SCHOOL 12/15/92	1,1,1-TRICHLOROETHA*	<0.0005
21215034	TWIN 12/15/92	1,1,1-TRICHLOROETHA*	0.0029

* 1,1,1-TRICHLOROETHANE

DATE AND ANALYST
12/17/92 ECKLUND

MEADVILLE DIVISION

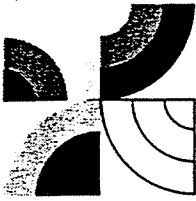
Accreditation No. 98
Public Health Services Approved Facility
D.E.R. Laboratory I.D. No. 20-073
Dept. of Agriculture Approved Dairy Laboratory
NY Dept. of Health Laboratory I.D. No. 10552
NY Dept. of Env. Conservation Approved Facility

MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 21-R
NJ Dept. of Env. Protection Lab I.D. No. 77613
Natl. Voluntary Lab. Accred. Cert. No. 1023
NC Dept. of Natural Resources Cert. No. 236

NC Dept. of Env., Health & Nat. Res. I.D. No. 42700
SC Dept. of Health Laboratory I.D. No. 89004
MI Dept. of Public Health Approved Facility
U.S. Office of Surface Mining Approved Facility

ROANOKE DIVISION

VA Dept. of Health Laboratory I.D. No. 00143



FREE-COL LABORATORIES, INC.

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12/21/92

TO: SIGNORE INC.

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ELLCOTTVILLE NY 14731-1448

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 2

LAB ID	SAMPLE ID			PARAMETER	RESULT
				UNITS = MG/L	
21215027	OSIW-IN	12/15/92		TRICHLOROETHYLENE	0.013
21215028	OSIW-OUT	12/15/92		TRICHLOROETHYLENE	<0.0005
21215029	BURLESON	12/15/92		TRICHLOROETHYLENE	0.0022
21215030	GERMAIN	12/15/92		TRICHLOROETHYLENE	0.0012
21215031	TOWN WELL	12/15/92		TRICHLOROETHYLENE	0.0061
21215032	MAIN	SCHOOL	12/15/92	TRICHLOROETHYLENE	0.0019
21215033	AUX.	SCHOOL	12/15/92	TRICHLOROETHYLENE	<0.0005
21215034	TWIN	12/15/92		TRICHLOROETHYLENE	0.0051

DATE AND ANALYST
12/17/92 ECKLUND

MEADVILLE DIVISION

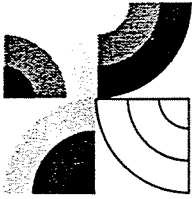
Accreditation No. 98
Public Health Services Approved Facility
D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory
NY Dept. of Health Laboratory I.D. No. 10552
Dept. of Env. Conservation Approved Facility

MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 21-R
NJ Dept. of Env. Protection Lab I.D. No. 77613
Natl. Voluntary Lab. Accred. Cert. No. 1023
NC Dept. of Natural Resources Cert. No. 236

NC Dept. of Env., Health & Nat. Res. I.D. No. 42700
SC Dept. of Health Laboratory I.D. No. 89004
MI Dept. of Public Health Approved Facility
U.S. Office of Surface Mining Approved Facility

ROANOKE DIVISION

VA Dept. of Health Laboratory I.D. No. 00143



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12/21/92

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43 JEFFERSON ST. P.O. BOX 1448
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ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 3

LAB ID	SAMPLE ID	PARAMETER	RESULT
21215027	OSIW-IN	12/15/92	VOLATILE SET-UP COMPLETE
21215028	OSIW-OUT	12/15/92	VOLATILE SET-UP COMPLETE
21215029	BURLESON	12/15/92	VOLATILE SET-UP COMPLETE
21215030	GERMAIN	12/15/92	VOLATILE SET-UP COMPLETE
21215031	TOWN WELL	12/15/92	VOLATILE SET-UP COMPLETE
21215032	MAIN	SCHOOL 12/15/92	VOLATILE SET-UP COMPLETE
21215033	AUX.	SCHOOL 12/15/92	VOLATILE SET-UP COMPLETE
21215034	TWIN	12/15/92	VOLATILE SET-UP COMPLETE

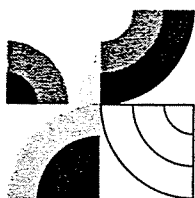
John Parasko
LABORATORY SUPERVISOR

MEADVILLE DIVISION
A.I. Accreditation No. 98
U.S. Public Health Services Approved Facility
F.D.E.R. Laboratory I.D. No. 20-073
F. Dept. of Agriculture Approved Dairy Laboratory
NY Dept. of Health Laboratory I.D. No. 10552
NY Dept. of Env. Conservation Approved Facility

MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 21-R
NJ Dept. of Env. Protection Lab I.D. No. 77613
N.Y.S. Natl. Voluntary Lab. Accred. Cert. No. 1023
NC Dept. of Natural Resources Cert. No. 236

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KENNETH G. HART
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ROANOKE, VIRGINIA

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ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 1

SAMPLE ID : OSIW-IN
12/15/92

LAB ID 21215027
DATE RECEIVED: 12/15/92

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
1,1-Dichloroethylene	0.0006	MG/L	12/17/92		ECKLUND
1,1-Dichloroethane	0.0006	MG/L	12/17/92		ECKLUND
Cis-1,2-Dichloroethylene	0.0008	MG/L	12/17/92		ECKLUND
Tetrachloroethylene	0.0027	MG/L	12/17/92		ECKLUND

John Paraska
LABORATORY SUPERVISOR

MEADVILLE DIVISION
A.I.P. Accreditation No. 98
U.S. Public Health Services Approved Facility
PA E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory
NY Dept. of Health Laboratory I.D. No. 10552
NY Dept. of Env. Conservation Approved Facility

MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 21-R
NJ Dept. of Env. Protection Lab I.D. No. 77613
Nat'l. Voluntary Lab. Accred. Cert. No. 1023
NC Dept. of Natural Resources Cert. No. 236

NC Dept. of Env., Health & Nat. Res. I.D. No. 42700
SC Dept. of Health Laboratory I.D. No. 89004
MI Dept. of Public Health Approved Facility
U.S. Office of Surface Mining Approved Facility

ROANOKE DIVISION

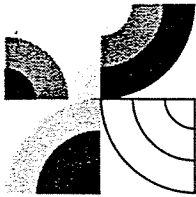
VA Dept. of Health Laboratory I.D. No. 00143

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KENNETH G. HART
LABORATORY DIRECTOR
ROANOKE, VIRGINIA

12/31/92

TO: SIGNORE INC.

P.O. #

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ELLICOTTVILLE NY 14731-1448

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 1

LAB ID	SAMPLE ID		PARAMETER	RESULT
			UNITS = MG/L	
21222102	MW-IRM-3I	12/21/92	1,1,1-TRICHLOROETHA*	0.001
21222103	MW-IRM-3I	DUP 12/21/92	1,1,1-TRICHLOROETHA*	0.001
21222104	MW-IRM-1	12/21/92	1,1,1-TRICHLOROETHA*	0.005
21222105	MW-IRM-2I	12/21/92	1,1,1-TRICHLOROETHA*	0.003
21222106	MW-EW-6.50	12/21/92	1,1,1-TRICHLOROETHA*	<0.001
21222107	MW-1I	12/21/92	1,1,1-TRICHLOROETHA*	0.002
21222108	MW-1D	12/21/92	1,1,1-TRICHLOROETHA*	<0.001
21222109	MW-1S	12/21/92	1,1,1-TRICHLOROETHA*	<0.001
21222110	MW-EW-450	12/21/92	1,1,1-TRICHLOROETHA*	0.004
21222111	MW-EW-2.25	12/21/92	1,1,1-TRICHLOROETHA*	<0.001
21222112	MW-EW-2.50	12/21/92	1,1,1-TRICHLOROETHA*	<0.001
21222113	MW-45	12/21/92	1,1,1-TRICHLOROETHA*	0.002
21222114	MW-4I	12/21/92	1,1,1-TRICHLOROETHA*	0.002
21222115	MW-9I	12/21/92	1,1,1-TRICHLOROETHA*	<0.001
21222116	MW-5S	12/21/92	1,1,1-TRICHLOROETHA*	<0.001

Please reference the following page for date and analyst.

MEADVILLE DIVISION

A.I. Accreditation No. 98
U.S. Public Health Services Approved Facility
P.D.E.R. Laboratory I.D. No. 20-073
P. Dept. of Agriculture Approved Dairy Laboratory
NY Dept. of Health Laboratory I.D. No. 10552
NY Dept. of Env. Conservation Approved Facility

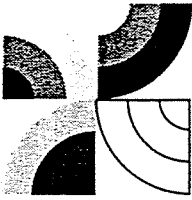
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 21-R
NJ Dept. of Env. Protection Lab I.D. No. 77613
Natl. Voluntary Lab. Accred. Cert. No. 1023
NC Dept. of Natural Resources Cert. No. 236

NC Dept. of Env., Health & Nat. Res. I.D. No. 42700
SC Dept. of Health Laboratory I.D. No. 89004
MI Dept. of Public Health Approved Facility
U.S. Office of Surface Mining Approved Facility

ROANOKE DIVISION

VA Dept. of Health Laboratory I.D. No. 00143

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LABORATORY DIRECTOR
MEADVILLE, PENNSYLVANIA

KENNETH G. HART
LABORATORY DIRECTOR
ROANOKE, VIRGINIA

12/31/92

TO: SIGNORE INC.

P.O. #

43 JEFFERSON ST. P.O. BOX 1448
ELLCOTTVILLE NY 14731-1448

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 2

LAB ID	SAMPLE ID			PARAMETER	RESULT

UNITS = MG/L					
21222117	MW-5I	12/21/92		1,1,1-TRICHLOROETHA*	<0.001
21222118	MW-8I	12/21/92		1,1,1-TRICHLOROETHA*	<0.001
21222119	MW-3.50	12/22/92		1,1,1-TRICHLOROETHA*	<0.001
21222120	MW-3.50	DUP	12/22/92	1,1,1-TRICHLOROETHA*	<0.001
21222121	MW-EW 5.50	12/22/92		1,1,1-TRICHLOROETHA*	<0.001
21222122	MW-EW 1.50	12/22/92		1,1,1-TRICHLOROETHA*	0.014
21222123	MW-EW 1.25	12/22/92		1,1,1-TRICHLOROETHA*	0.14
21222124	MW-EW 7.50	12/22/92		1,1,1-TRICHLOROETHA*	0.001
21222125	TRIP BLANK			1,1,1-TRICHLOROETHA*	<0.001

DATE AND ANALYST
12/30/92 BEERS/ECKLUND

MEADVILLE DIVISION

A.I.A. Accreditation No. 98
U.S. Public Health Services Approved Facility
P.I.E.R. Laboratory I.D. No. 20-073
P.I. Dept. of Agriculture Approved Dairy Laboratory
NY Dept. of Health Laboratory I.D. No. 10552
NY Dept. of Env. Conservation Approved Facility

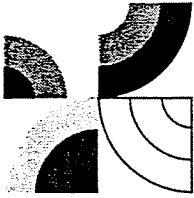
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 21-R
NJ Dept. of Env. Protection Lab I.D. No. 77613
Natl. Voluntary Lab. Accred. Cert. No. 1023
NC Dept. of Natural Resources Cert. No. 236

NC Dept. of Env., Health & Nat. Res. I.D. No. 4270C
SC Dept. of Health Laboratory I.D. No. 89004
MI Dept. of Public Health Approved Facility
U.S. Office of Surface Mining Approved Facility

ROANOKE DIVISION

VA Dept. of Health Laboratory I.D. No. 00143

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 MEADVILLE, PENNSYLVANIA

KENNETH G. HART
 LABORATORY DIRECTOR
 ROANOKE, VIRGINIA

12/31/92

TO: SIGNORE INC.

P.O. #

43 JEFFERSON ST. P.O. BOX 1448
 ELLICOTTVILLE NY 14731-1448

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM PAGE 3

LAB ID	SAMPLE ID	DATE	PARAMETER	RESULT
			UNITS = MG/L	
21222102	MW-IRM-3I	12/21/92	TRICHLOROETHYLENE	0.002
21222103	MW-IRM-3I	DUP 12/21/92	TRICHLOROETHYLENE	0.002
21222104	MW-IRM-1	12/21/92	TRICHLOROETHYLENE	0.005
21222105	MW-IRM-2I	12/21/92	TRICHLOROETHYLENE	0.004
21222106	MW-EW-6.50	12/21/92	TRICHLOROETHYLENE	<0.001
21222107	MW-1I	12/21/92	TRICHLOROETHYLENE	0.066
21222108	MW-1D	12/21/92	TRICHLOROETHYLENE	<0.001
21222109	MW-1S	12/21/92	TRICHLOROETHYLENE	<0.001
21222110	MW-EW-450	12/21/92	TRICHLOROETHYLENE	0.008
21222111	MW-EW-2.25	12/21/92	TRICHLOROETHYLENE	0.002
21222112	MW-EW-2.50	12/21/92	TRICHLOROETHYLENE	<0.001
21222113	MW-45	12/21/92	TRICHLOROETHYLENE	0.001
21222114	MW-4I	12/21/92	TRICHLOROETHYLENE	0.024
21222115	MW-9I	12/21/92	TRICHLOROETHYLENE	<0.001
21222116	MW-5S	12/21/92	TRICHLOROETHYLENE	0.074

Please reference the following page for date and analyst.

MEADVILLE DIVISION

Accreditation No. 98
 Public Health Services Approved Facility
 D.E.R. Laboratory I.D. No. 20-073
 Dept. of Agriculture Approved Dairy Laboratory
 NY Dept. of Health Laboratory I.D. No. 10552
 NY Dept. of Env. Conservation Approved Facility

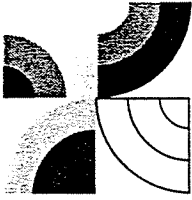
MD Dept. of Health Cert. No. 130
 VA Dept. of Health Laboratory I.D. No. 00145
 WV Dept. of Health Certification No. 21-R
 NJ Dept. of Env. Protection Lab I.D. No. 77613
 Natl. Voluntary Lab. Accred. Cert. No. 1023
 NC Dept. of Natural Resources Cert. No. 236

NC Dept. of Env., Health & Nat. Res. I.D. No. 4270C
 SC Dept. of Health Laboratory I.D. No. 89004
 MI Dept. of Public Health Approved Facility
 U.S. Office of Surface Mining Approved Facility

ROANOKE DIVISION

VA Dept. of Health Laboratory I.D. No. 00143

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FREE-COL LABORATORIES, INC.
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 5815 AIRPORT ROAD ROANOKE, VIRGINIA 24012
 PHONE: (703) 265-2544 FAX: (703) 362-1663

J. RICHARD WOHLER, Ph.D.
 LABORATORY DIRECTOR
 MEADVILLE, PENNSYLVANIA

KENNETH G. HART
 LABORATORY DIRECTOR
 ROANOKE, VIRGINIA

12/31/92

TO: SIGNORE INC.

P.O. #

43 JEFFERSON ST. P.O. BOX 1448
 ELLICOTTVILLE NY 14731-1448

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM PAGE 4

LAB ID	SAMPLE ID	PARAMETER	RESULT
		UNITS = MG/L	
21222117	MW-5I	12/21/92 TRICHLOROETHYLENE	<0.001
21222118	MW-8I	12/21/92 TRICHLOROETHYLENE	<0.001
21222119	MW-3.50	12/22/92 TRICHLOROETHYLENE	<0.001
21222120	MW-3.50	DUP 12/22/92 TRICHLOROETHYLENE	<0.001
21222121	MW-EW 5.50	12/22/92 TRICHLOROETHYLENE	0.002
21222122	MW-EW 1.50	12/22/92 TRICHLOROETHYLENE	0.007
21222123	MW-EW 1.25	12/22/92 TRICHLOROETHYLENE	0.067
21222124	MW-EW 7.50	12/22/92 TRICHLOROETHYLENE	0.002
21222125	TRIP BLANK	TRICHLOROETHYLENE	<0.001

DATE AND ANALYST
 12/30/92 BEERS/ECKLUND

MEADVILLE DIVISION

A.I. Accreditation No. 98
 U.S. Public Health Services Approved Facility
 F.D.E.R. Laboratory I.D. No. 20-073
 F. Dept. of Agriculture Approved Dairy Laboratory
 NY Dept. of Health Laboratory I.D. No. 10552
 NY Dept. of Env. Conservation Approved Facility

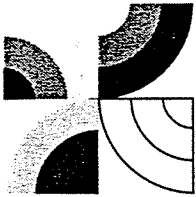
MD Dept. of Health Cert. No. 130
 VA Dept. of Health Laboratory I.D. No. 00145
 WV Dept. of Health Certification No. 21-R
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 NC Dept. of Natural Resources Cert. No. 236

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 LABORATORY DIRECTOR
 MEADVILLE, PENNSYLVANIA

KENNETH G. HART
 LABORATORY DIRECTOR
 ROANOKE, VIRGINIA

12/31/92

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P.O. #

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ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 5

LAB ID	SAMPLE ID	DATE	PARAMETER	RESULT
21222102	MW-IRM-3I	12/21/92	VOLATILE SET-UP	COMPLETE
21222103	MW-IRM-3I	DUP 12/21/92	VOLATILE SET-UP	COMPLETE
21222104	MW-IRM-1	12/21/92	VOLATILE SET-UP	COMPLETE
21222105	MW-IRM-2I	12/21/92	VOLATILE SET-UP	COMPLETE
21222106	MW-EW-6.50	12/21/92	VOLATILE SET-UP	COMPLETE
21222107	MW-1I	12/21/92	VOLATILE SET-UP	COMPLETE
21222108	MW-1D	12/21/92	VOLATILE SET-UP	COMPLETE
21222109	MW-1S	12/21/92	VOLATILE SET-UP	COMPLETE
21222110	MW-EW-450	12/21/92	VOLATILE SET-UP	COMPLETE
21222111	MW-EW-2.25	12/21/92	VOLATILE SET-UP	COMPLETE
21222112	MW-EW-2.50	12/21/92	VOLATILE SET-UP	COMPLETE
21222113	MW-45	12/21/92	VOLATILE SET-UP	COMPLETE
21222114	MW-4I	12/21/92	VOLATILE SET-UP	COMPLETE
21222115	MW-9I	12/21/92	VOLATILE SET-UP	COMPLETE
21222116	MW-5S	12/21/92	VOLATILE SET-UP	COMPLETE

MEADVILLE DIVISION

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 NY Dept. of Health Laboratory I.D. No. 10552
 NY Dept. of Env. Conservation Approved Facility

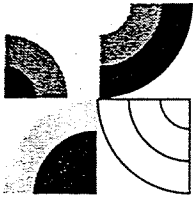
MD Dept. of Health Cert. No. 130
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 NJ Dept. of Env. Protection Lab I.D. No. 77613
 Natl. Voluntary Lab. Accred. Cert. No. 1023
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J. RICHARD WOHLER, Ph.D.
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 MEADVILLE, PENNSYLVANIA

KENNETH G. HART
 LABORATORY DIRECTOR
 ROANOKE, VIRGINIA

12/31/92

TO: SIGNORE INC.

P.O. #

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ACCOUNT NO. 01869

ANALYTICAL REPORT FORM PAGE 6

LAB ID	SAMPLE ID	PARAMETER	RESULT	
21222117	MW-5I	12/21/92	VOLATILE SET-UP	COMPLETE
21222118	MW-8I	12/21/92	VOLATILE SET-UP	COMPLETE
21222119	MW-3.50	12/22/92	VOLATILE SET-UP	COMPLETE
21222120	MW-3.50	DUP 12/22/92	VOLATILE SET-UP	COMPLETE
21222121	MW-EW 5.50	12/22/92	VOLATILE SET-UP	COMPLETE
21222122	MW-EW 1.50	12/22/92	VOLATILE SET-UP	COMPLETE
21222123	MW-EW 1.25	12/22/92	VOLATILE SET-UP	COMPLETE
21222124	MW-EW 7.50	12/22/92	VOLATILE SET-UP	COMPLETE
21222125	TRIP BLANK		VOLATILE SET-UP	COMPLETE

John Paraske
 LABORATORY SUPERVISOR

MEADVILLE DIVISION

A.I. Accreditation No. 98
 U.S. Public Health Services Approved Facility
 P.I.E.R. Laboratory I.D. No. 20-073
 P.I. Dept. of Agriculture Approved Dairy Laboratory
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 NY Dept. of Env. Conservation Approved Facility

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 U.S. Natl. Voluntary Lab. Accred. Cert. No. 1023
 NC Dept. of Natural Resources Cert. No. 236

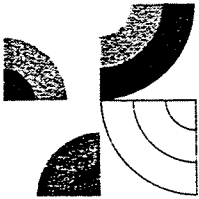
NC Dept. of Env., Health & Nat. Res. I.D. No. 42700
 SC Dept. of Health Laboratory I.D. No. 89004
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LABORATORY DIRECTOR
MEADVILLE, PENNSYLVANIA

KENNETH G. HART
LABORATORY DIRECTOR
ROANOKE, VIRGINIA

01/28/93

TO: SIGNORE INC.

P.O. # P006422

43 JEFFERSON ST. P.O. BOX 1448
ELLCOTTVILLE NY 1473-1448

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 1

PARAMETER	LAB ID	DATE RECEIVED:	IRM-1	IRM-2I	EW-6.50
			01/26/93	01/26/93	01/26/93
	30126066	01/26/93	30126067	30126068	30126068
			01/26/93	01/26/93	01/26/93

UNITS = MG/L

TRICHLOROETHYLENE	0.006	0.005	<0.001
1,1,1-TRICHLOROETHA*	0.004	0.003	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE

*1,1,1-TRICHLOROETHANE

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NC Dept. of Natural Resources Cert. No. 236

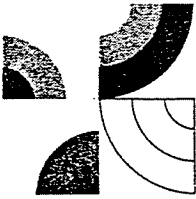
NC Dept. of Env., Health & Nat. Res. I.D. No. 42700
SC Dept. of Health Laboratory I.D. No. 89004
MI Dept. of Public Health Approved Facility
U.S. Office of Surface Mining Approved Facility
ROANOKE DIVISION
VA Dept. of Health Laboratory I.D. No. 00143

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LABORATORY DIRECTOR
MEADVILLE, PENNSYLVANIA

KENNETH G. HART
LABORATORY DIRECTOR
ROANOKE, VIRGINIA

01/28/93

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ANALYTICAL REPORT FORM

PAGE 2

PARAMETER	LAB ID	DATE RECEIVED:	EW-4.50 01/26/93	EW-1.50 01/26/93	MW-1I 01/26/93
	30126069	01/26/93			
	30126070	01/26/93			
	30126071	01/26/93			

UNITS = MG/L

TRICHLOROETHYLENE	<0.001	<0.001	0.054
1,1,1-TRICHLOROETHA*	0.002	<0.001	0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE

*1,1,1-TRICHLOROETHANE

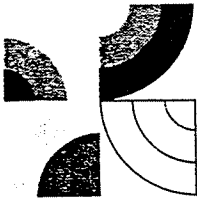
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NY Dept. of Env. Conservation Approved Facility

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EPA Natl. Voluntary Lab. Accred. Cert. No. 1023
NC Dept. of Natural Resources Cert. No. 236

NC Dept. of Env., Health & Nat. Res. I.D. No. 4270C
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J. RICHARD WOHLER, Ph.D.
LABORATORY DIRECTOR
MEADVILLE, PENNSYLVANIA

KENNETH G. HART
LABORATORY DIRECTOR
ROANOKE, VIRGINIA

01/28/93

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P.O. # P006422

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ANALYTICAL REPORT FORM

PAGE 3

SAMPLE ID : TRIP BLANK
01/26/93

LAB ID 30126072
DATE RECEIVED: 01/26/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Trichloroethylene	<0.001	MG/L	01/26/93		HANS
1,1,1-Trichloroethane	<0.001	MG/L	01/26/93		HANS
Volatile Set-up	COMPLETE				

John Paraska
LABORATORY SUPERVISOR

pc: Jeffrey Schick - Groundwater Assoc. Inc.

MEADVILLE DIVISION

A.I. Accreditation No. 98
U.S. Public Health Services Approved Facility
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SC Dept. of Health Laboratory I.D. No. 89004
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ROANOKE DIVISION

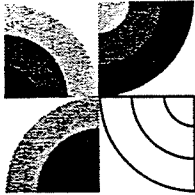
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J. RICHARD WOHLER, Ph.D.
LABORATORY DIRECTOR
MEADVILLE, PENNSYLVANIA

KENNETH G. HART
LABORATORY DIRECTOR
ROANOKE, VIRGINIA

02/05/93

TO: **SIGNORE INC.**
ATTN: MR. FLETCHER WARD
43 JEFFERSON ST. P.O. BOX 1448
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P.O. #

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ANALYTICAL REPORT FORM

PAGE 1

	SAMPLE ID	:	STRIPPER	STRIPPER
			INFLUENT	EFFLUENT
			01/28/93	01/28/93
	LAB ID		30202048	30202049
PARAMETER	DATE RECEIVED:		02/02/93	02/02/93

UNITS = MG/L

TRICHLOROETHYLENE	0.012	<0.001
1,1,1-TRICHLOROETHA*	0.008	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

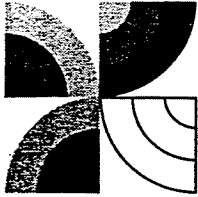
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J. RICHARD WOHLER, Ph.D.
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KENNETH G. HART
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ROANOKE, VIRGINIA

02/05/93

TO: **SIGNORE INC.**
ATTN: MR. FLETCHER WARD
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ANALYTICAL REPORT FORM

PAGE 2

SAMPLE ID : INTERCEP.
01/28/93

LAB ID 30202050
DATE RECEIVED: 02/02/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Trichloroethylene	0.004	MG/L	02/03/93		HANS
1,1,1-Trichloroethane	0.003	MG/L	02/03/93		HANS
Volatile Set-up	COMPLETE				

QUALITY ASSURANCE SUPERVISOR

pc: Jeffrey Schick - Groundwater Assoc. Inc.

ILLE DIVISION
H.A. Accreditation No. 98
Public Health Services Approved Facility
A D.E.R. Laboratory I.D. No. 20-073
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ROANOKE DIVISION

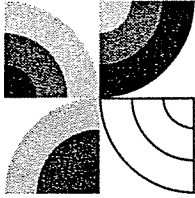
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MEADVILLE, PENNSYLVANIA

KENNETH G. HART
LABORATORY DIRECTOR
ROANOKE, VIRGINIA

04/07/93

TO: SIGNORE INC.
ATTN: MR. FLETCHER WARD
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P.O. # P006422-02

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 1

SAMPLE ID : STRIPPER
INFLUENT
03/25/93
LAB ID 30326127
DATE RECEIVED: 03/26/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chloroethane	<0.001	MG/L	03/30/93		HANS
1,1-Dichloroethane	<0.001	MG/L	03/30/93		HANS
Trans-1,2-Dichloroethene	<0.001	MG/L	03/30/93		HANS
Tetrachloroethylene	0.004	MG/L	03/30/93		HANS
1,1,1-Trichloroethane	0.008	MG/L	03/30/93		HANS
Trichloroethylene	0.012	MG/L	03/30/93		HANS
Vinyl Chloride	<0.001	MG/L	03/30/93		HANS

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ROANOKE DIVISION

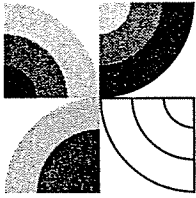
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FAX: (814) 333-1466

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PHONE: (703) 265-2544
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J. RICHARD WOHLER, Ph.D.
LABORATORY DIRECTOR
MEADVILLE, PENNSYLVANIA

KENNETH G. HART
LABORATORY DIRECTOR
ROANOKE, VIRGINIA

04/07/93

TO: SIGNORE INC.
ATTN: MR. FLETCHER WARD
43 JEFFERSON ST. P.O. BOX 1448
ELLICOTTVILLE NY 14731-1448

P.O. # P006422-02

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 2

SAMPLE ID : STRIPPER
EFFLUENT
03/25/93
LAB ID 30326128
DATE RECEIVED: 03/26/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chloroethane	<0.001	MG/L	03/30/93		HANS
1,1-Dichloroethane	<0.001	MG/L	03/30/93		HANS
Trans-1,2-Dichloroethene	<0.001	MG/L	03/30/93		HANS
Tetrachloroethylene	<0.001	MG/L	03/30/93		HANS
1,1,1-Trichloroethane	<0.001	MG/L	03/30/93		HANS
Trichloroethylene	<0.001	MG/L	03/30/93		HANS
Vinyl Chloride	<0.001	MG/L	03/30/93		HANS

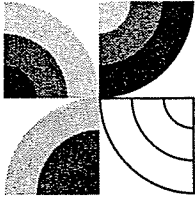
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PAGE 3

SAMPLE ID : STRIPPER
EFFLUENT
03/25/93
LAB ID 30326129
DATE RECEIVED: 03/26/93

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Acid Digestion Preparation	COMPLETE		03/30/93	MAIN/ CONLEY

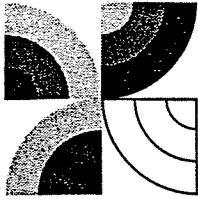
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ANALYTICAL REPORT FORM

PAGE 4

SAMPLE ID : STRIPPER
EFF. 3/25
DIGESTION
LAB ID 30326130
DATE RECEIVED: 03/26/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Aluminum	0.1	MG/L	03/31/93		PRUTZMAN
Chromium (flameless)	0.001	MG/L	03/30/93		LIM/ BAKER
Copper	0.03	MG/L	03/31/93		LIM
Iron	0.07	MG/L	04/01/93		KOZAKOVSKY
Lead (flameless)	0.003	MG/L	04/03/93		BAKER/ LIM
Manganese	<0.01	MG/L	04/01/93		KOZAKOVSKY
Nickel	0.04	MG/L	03/31/93		LIM
Zinc	0.020	MG/L	04/01/93		PRUTZMAN

Andrew K. Ecklund

ASST. LABORATORY DIRECTOR

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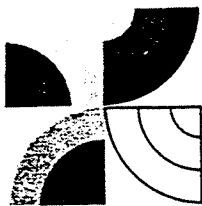
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ANALYTICAL REPORT FORM

PAGE 1

PARAMETER	SAMPLE ID	IRM-3I	IRM-1	IRM-2I	EW 6.50
		04/26/93	04/26/93	04/26/93	04/26/93
		11:50	12:40	12:45	
	LAB ID	30427072	30427073	30427074	30427075
	DATE RECEIVED:	04/27/93	04/27/93	04/27/93	04/27/93

UNITS = MG/L

1,1,1-TRICHLOROETHA*	<0.001	0.003	0.002	<0.001
TRICHLOROETHYLENE	<0.001	0.005	0.004	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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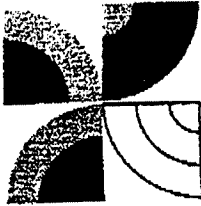
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ANALYTICAL REPORT FORM

PAGE 2

PARAMETER	SAMPLE ID	EW 7.50	EW 5.50	EW 4.50	EW 2.50
		04/26/93	04/26/93	04/26/93	04/26/93
		14:15	14:25	15:25	15:30
	LAB ID	30427076	30427077	30427078	30427079
	DATE RECEIVED:	04/27/93	04/27/93	04/27/93	04/27/93

UNITS = MG/L

1,1,1-TRICHLOROETHA*	<0.001	<0.001	<0.001	<0.001
TRICHLOROETHYLENE	0.002	<0.001	0.002	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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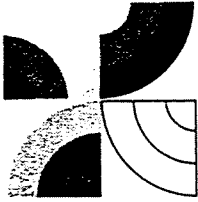
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ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 3

PARAMETER	SAMPLE ID	MW-1I	MW-4I	MW-9I	EW-1.50
		04/26/93	04/27/93	04/27/93	04/27/93
		15:35	11:30	11:40	12:15
	LAB ID	30427080	30427081	30427082	30427083
	DATE RECEIVED:	04/27/93	04/27/93	04/27/93	04/27/93

UNITS = MG/L

1,1,1-TRICHLOROETHA*	0.001	<0.001	<0.001	0.009
TRICHLOROETHYLENE	0.036	0.013	0.003	0.007
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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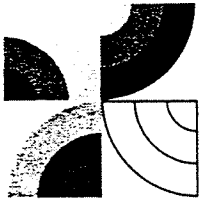
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PAGE 4

PARAMETER	SAMPLE ID	MW-8I	MW-5I	MW-9I DUP	SCHOOL
		04/27/93	04/27/93	04/27/93	INSIDE
		12:40	13:15	11:40	04/26/93
	LAB ID	30427084	30427085	30427086	30427087
	DATE RECEIVED:	04/27/93	04/27/93	04/27/93	04/27/93

UNITS = MG/L

1,1,1-TRICHLOROETHA*	<0.001	<0.001	<0.001	<0.001
TRICHLOROETHYLENE	<0.001	<0.001	0.002	0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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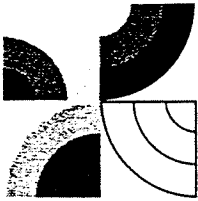
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PAGE 5

PARAMETER	SAMPLE ID	SCHOOL	GERMAIN	BURLESON	TRIP BLANK
		OUTSIDE	04/26/93	04/26/93	04/26/93
		04/26/93			
	LAB ID	30427088	30427089	30427090	30427091
	DATE RECEIVED:	04/27/93	04/27/93	04/27/93	04/27/93

UNITS = MG/L

1,1,1-TRICHLOROETHA*	<0.001	<0.001	<0.001	<0.001
TRICHLOROETHYLENE	<0.001	0.001	0.002	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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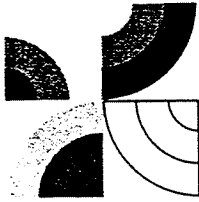
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PAGE 6

SAMPLE ID : INTERCEP.
WELL
04/26/93
LAB ID 30427092
DATE RECEIVED: 04/27/93

PARAMETER

UNITS = MG/L

CHLOROETHANE	<0.001
1,1-DICHLOROETHANE	<0.001
TRANS-1,2-DICHLOROE*	<0.001
TETRACHLOROETHYLENE	<0.001
1,1,1-TRICHLOROETHA* *	0.002
TRICHLOROETHYLENE	0.004
VINYL CHLORIDE	<0.001
ACID DIGESTION PREP	COMPLETE

* TRANS-1,2-DICHLOROETHENE

** 1,1,1-TRICHLOROETHANE

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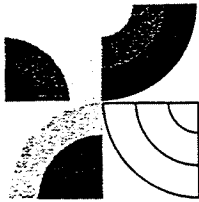
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PAGE 7

SAMPLE ID : STRIPPER
EFFLUENT
04/26/93
LAB ID 30427093
DATE RECEIVED: 04/27/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chloroethane	<0.001	MG/L	04/30/93		HANS/ BEERS
1,1-Dichloroethane	<0.001	MG/L	04/30/93		HANS/ BEERS
Trans-1,2-Dichloroethene	<0.001	MG/L	04/30/93		HANS/ BEERS
Tetrachloroethylene	<0.001	MG/L	04/30/93		HANS/ BEERS
1,1,1-Trichloroethane	<0.001	MG/L	04/30/93		HANS/ BEERS
Trichloroethylene	<0.001	MG/L	04/30/93		HANS/ BEERS
Vinyl Chloride	<0.001	MG/L	04/30/93		HANS/ BEERS
Acid Digestion Preparation	COMPLETE		04/28/93		MAIN

MEADVILLE DIVISION

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NC Dept. of Natural Resources Cert. No. 236

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SC Dept. of Health Laboratory I.D. No. 89004
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ROANOKE DIVISION

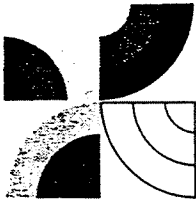
VA Dept. of Health Laboratory I.D. No. 00143

KEY:

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> = GREATER THAN

w.f. = WILL FOLLOW



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FAX: (814) 333-1466

5815 AIRPORT ROAD
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PHONE: (703) 265-2544
FAX: (703) 362-1663

05/07/93

TO: **SIGNORE INC.**
ATTN: MR. NED WARD
43 JEFFERSON ST. P.O. BOX 1448
ELLICOTTVILLE NY 14731-1448

P.O. # P006422-01

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 8

SAMPLE ID : INTER.WELL
04/26/93
DIGESTION
LAB ID 30427094
DATE RECEIVED: 04/27/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chromium (flameless)	0.001	MG/L	05/05/93		BAKER/ LIM
Copper	0.02	MG/L	05/04/93		PRUTZMAN
Iron	<0.03	MG/L	05/05/93		KOZAKOVSKY
Lead (flameless)	0.001	MG/L	05/03/93		BAKER/ LIM
Manganese	<0.01	MG/L	05/06/93		KOZAKOVSKY
Nickel	<0.04	MG/L	05/04/93		PRUTZMAN
Zinc	0.016	MG/L	04/28/93		PRUTZMAN
Aluminum	<0.1	MG/L	04/29/93		PRUTZMAN

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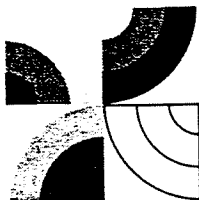
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ANALYTICAL REPORT FORM

PAGE 9

SAMPLE ID : STRIP.EFF.
04/26/93
DIGESTION
LAB ID 30427095
DATE RECEIVED: 04/27/93

PARAMETER	RESULTS	UNITS	DATE AND	ANALYST
Chromium (flameless)	0.001	MG/L	05/05/93	BAKER/ LIM
Copper	<0.02	MG/L	05/04/93	PRUTZMAN
Iron	<0.03	MG/L	05/05/93	KOZAKOVSKY
Lead (flameless)	0.001	MG/L	05/03/93	BAKER/ LIM
Manganese	<0.01	MG/L	05/06/93	KOZAKOVSKY
Nickel	<0.04	MG/L	05/04/93	PRUTZMAN
Zinc	<0.005	MG/L	04/28/93	PRUTZMAN
Aluminum	<0.1	MG/L	04/29/93	PRUTZMAN

Andrew K. Ecklund

ASST. LABORATORY DIRECTOR

pc: Jeff Schick - Groundwater Assoc.

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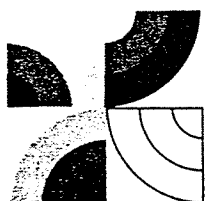
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PAGE 1

PARAMETER	SAMPLE ID	TOWN WELL	INTERCEPT.	STRIPPER	STRIPPER
		07/13/93	WELL	INFLUENT	EFFLUENT
	LAB ID	30713075	07/13/93	07/13/93	07/13/93
	DATE RECEIVED:	30713076	07/13/93	30713077	30713078
		07/13/93	07/13/93	07/13/93	07/13/93

UNITS = MG/L

1,1,1-TRICHLOROETHA*	0.002	0.003	0.005	<0.001
TRICHLOROETHYLENE	0.004	0.003	0.007	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

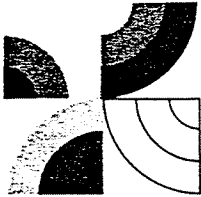
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ANALYTICAL REPORT FORM

PAGE 2

PARAMETER	SAMPLE ID	IRM-2I	IRM-1	EW-6.50	EW-4.50
		07/13/93	07/13/93	07/13/93	07/13/93
	LAB ID	30713079	30713080	30713081	30713082
	DATE RECEIVED:	07/13/93	07/13/93	07/13/93	07/13/93

UNITS = MG/L

1,1,1-TRICHLOROETHA*	0.002	0.004	<0.001	<0.001
TRICHLOROETHYLENE	0.004	0.005	<0.001	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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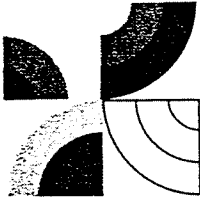
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ANALYTICAL REPORT FORM

PAGE 3

	SAMPLE ID	: MW-1I	EW-1.50
		07/13/93	07/13/93
PARAMETER	LAB ID	30713083	30713084
	DATE RECEIVED:	07/13/93	07/13/93

UNITS = MG/L

1,1,1-TRICHLOROETHA*	<0.001	<0.001
TRICHLOROETHYLENE	0.006	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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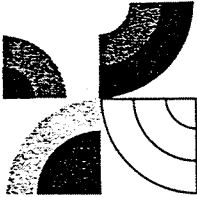
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ANALYTICAL REPORT FORM

PAGE 4

SAMPLE ID : TRIP BLANK
07/13/93

LAB ID 30713085
DATE RECEIVED: 07/13/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
1,1,1-Trichloroethane	<0.001	MG/L	07/15/93		HANS
Trichloroethylene	<0.001	MG/L	07/15/93		HANS
Volatile Set-up	COMPLETE				

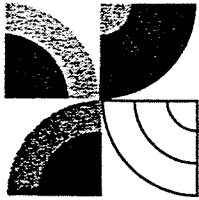
Andrew K. Ecklund

ASST. LABORATORY DIRECTOR

pc: Jeffrey Schick - Groundwater Associates

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11/08/93

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NY 14731-1448

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ANALYTICAL REPORT FORM

PAGE 1

PARAMETER	SAMPLE ID	LAB ID	DATE RECEIVED	1RM-3I 11/01/93	EW-3.50 11/01/93	EW-3.50 DUP. 11/01/93	EW-5.50 11/01/93
		31102067	11/02/93		31102068 11/02/93	31102069 11/02/93	31102070 11/02/93

UNITS = MG/L

1,1,1-TRICHLOROETHA*	<0.001	<0.001	<0.001	<0.001
TRICHLOROETHYLENE	<0.001	<0.001	<0.001	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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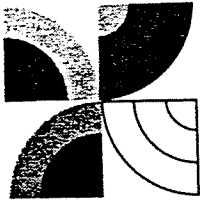
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ANALYTICAL REPORT FORM

PAGE 2

PARAMETER	SAMPLE ID	EW-7.50 11/01/93	IRM-1 11/01/93	IRM-2I 11/01/93	EW-6.50 11/01/93
	LAB ID	31102071	31102072	31102073	31102074
	DATE RECEIVED:	11/02/93	11/02/93	11/02/93	11/02/93
UNITS = MG/L					
1,1,1-TRICHLOROETHA*		<0.001	0.005	0.003	<0.001
TRICHLOROETHYLENE		<0.001	0.006	0.006	<0.001
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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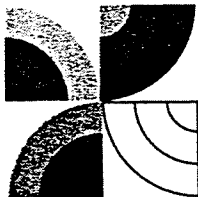
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PAGE 3

PARAMETER	SAMPLE ID	LAB ID	DATE RECEIVED	TRIP BLANK	EW-2.25	EW-2.25
	: EW-450 11/01/93	31102075	11/02/93	11/01/93	11/02/93	DUP. 11/02/93
		31102075	11/02/93	31102076	31102077	31102078
				11/02/93	11/02/93	11/02/93
	UNITS = MG/L					
1,1,1-TRICHLOROETHA*				<0.001	<0.001	<0.001
TRICHLOROETHYLENE				0.002	<0.001	<0.001
VOLATILE SET-UP				COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

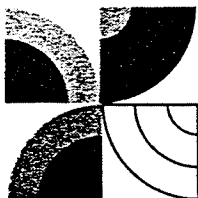
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PAGE 4

PARAMETER	SAMPLE ID	EW-2.50	EW-1.25	MW-1I	EW-1.50
		11/02/93	11/02/93	11/02/93	11/02/93
	LAB ID	31102079	31102080	31102081	31102082
	DATE RECEIVED:	11/02/93	11/02/93	11/02/93	11/02/93
UNITS = MG/L					
1,1,1-TRICHLOROETHA*		<0.001	0.073	<0.001	<0.001
TRICHLOROETHYLENE		<0.001	0.061	0.001	<0.001
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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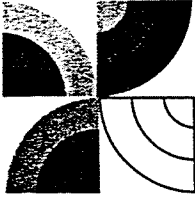
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U.S. Office of Surface Mining Approved Facility

ROANOKE DIVISION

VA Dept. of Health Laboratory I.D. No. 00143



FREE-COL LABORATORIES, INC.

P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

11/08/93

TO: ATTN: MR. NED WARD
SIGNORE INC.
43 JEFFERSON ST.
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. #

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 5

PARAMETER	SAMPLE ID	MW-1S	MW-1D	MW-9I	MW-8I
		11/02/93	11/02/93	11/02/93	11/02/93
	LAB ID	31102083	31102084	31102085	31102086
	DATE RECEIVED:	11/02/93	11/02/93	11/02/93	11/02/93

UNITS = MG/L

1,1,1-TRICHLOROETHA*	<0.001	<0.001	0.003	<0.001
TRICHLOROETHYLENE	<0.001	<0.001	0.007	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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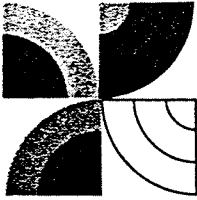
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KEY:

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> = GREATER THAN

w.f. = WILL FOLLOW



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ANALYTICAL REPORT FORM

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PARAMETER	SAMPLE ID	MW-5I	MW-5S	MW-4S
		11/02/93	11/02/93	11/02/93
	LAB ID	31102087	31102088	31102089
	DATE RECEIVED:	11/02/93	11/02/93	11/02/93

UNITS = MG/L

1,1,1-TRICHLOROETHA*	<0.001	<0.001	0.002
TRICHLOROETHYLENE	<0.001	0.006	0.004
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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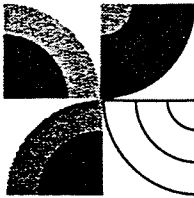
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SAMPLE ID : MW-4I
11/02/93

LAB ID 31102090
DATE RECEIVED: 11/02/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
1,1,1-Trichloroethane	<0.001	MG/L	11/03/93		ECKLUND/ BEERS
Trichloroethylene	<0.001	MG/L	11/03/93		ECKLUND/ BEERS
Volatile Set-up	COMPLETE				

Andrew K. Ecklund

ASST. LABORATORY DIRECTOR

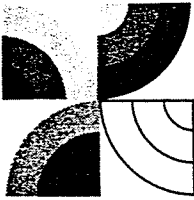
pc: Jeffrey Schick - Groundwater Assoc.

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PAGE 1

PARAMETER	SAMPLE ID	BURRELSON	GERMANE	EVILL SCH	EVILL SCH
		HOME TAP	HOME TAP	BOILER TAP	OUTSIDE
		11/16/93	11/16/93	11/16/93	11/16/93
	LAB ID	31117127	31117128	31117129	31117130
	DATE RECEIVED:	11/17/93	11/17/93	11/17/93	11/17/93

UNITS = MG/L

TRICHLOROETHYLENE	0.002	0.002	0.002	<0.001
1,1,1-TRICHLOROETHA*	<0.001	<0.001	<0.001	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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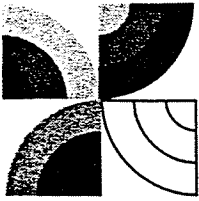
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ANALYTICAL REPORT FORM

PAGE 2

SAMPLE ID : TOWN WELL
HOLLIDAY
11/16/93
LAB ID 31117131
DATE RECEIVED: 11/17/93

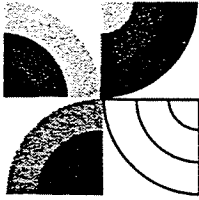
PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Trichloroethylene	0.005	MG/L	11/22/93		HANS
1,1,1-Trichloroethane	0.001	MG/L	11/22/93		HANS
Volatile Set-up	COMPLETE				

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ANALYTICAL REPORT FORM

PAGE 3

SAMPLE ID : TOWN INTER
11/16/93

LAB ID 31117132
DATE RECEIVED: 11/17/93

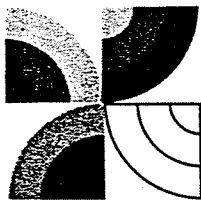
PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chloroethane	<0.001	MG/L	11/22/93		HANS
1,1-Dichloroethane	<0.001	MG/L	11/22/93		HANS
Trans-1,2-Dichloroethene	<0.001	MG/L	11/22/93		HANS
Tetrachloroethylene	<0.001	MG/L	11/22/93		HANS
1,1,1-Trichloroethane	0.002	MG/L	11/22/93		HANS
Trichloroethylene	0.004	MG/L	11/22/93		HANS
Vinyl Chloride	<0.001	MG/L	11/22/93		HANS
Sample Filtration	COMPLETE		11/19/93		CONLEY
Acid Digestion Preparation	COMPLETE		11/19/93		CONLEY

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ANALYTICAL REPORT FORM

PAGE 4

SAMPLE ID : STIPPER
INFLUENT
11/16/93
LAB ID 31117133
DATE RECEIVED: 11/17/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chloroethane	<0.001	MG/L	11/22/93		HANS
1,1-Dichloroethane	<0.001	MG/L	11/22/93		HANS
Trans-1,2-Dichloroethene	<0.001	MG/L	11/22/93		HANS
Tetrachloroethylene	<0.001	MG/L	11/22/93		HANS
1,1,1-Trichloroethane	0.004	MG/L	11/22/93		HANS
Trichloroethylene	0.007	MG/L	11/22/93		HANS
Vinyl Chloride	<0.001	MG/L	11/22/93		HANS

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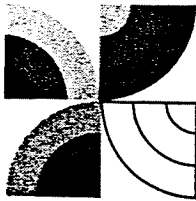
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KEY:

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w.f. = WILL FOLLOW



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ANALYTICAL REPORT FORM

PAGE 5

SAMPLE ID : STRIPPER
OUTFALL
11/16/93
LAB ID 31117134
DATE RECEIVED: 11/17/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chloroethane	<0.001	MG/L	11/22/93		HANS
1,1-Dichloroethane	<0.001	MG/L	11/22/93		HANS
Trans-1,2-Dichloroethene	<0.001	MG/L	11/22/93		HANS
Tetrachloroethylene	<0.001	MG/L	11/22/93		HANS
1,1,1-Trichloroethane	<0.001	MG/L	11/22/93		HANS
Trichloroethylene	<0.001	MG/L	11/22/93		HANS
Vinyl Chloride	<0.001	MG/L	11/22/93		HANS
Sample Filtration	COMPLETE		11/19/93		CONLEY
Acid Digestion Preparation	COMPLETE		11/19/93		CONLEY

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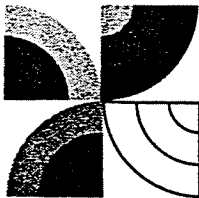
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PAGE 6

SAMPLE ID : TOWN INTER
11/16/93
DIGESTION
LAB ID 31117135
DATE RECEIVED: 11/17/93

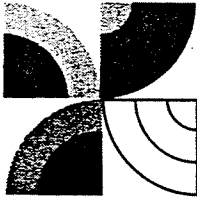
PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chromium G.F.	0.001	MG/L	11/24/93		BAKER
Copper	<0.02	MG/L	11/22/93		PRUTZMAN
Iron	0.23	MG/L	11/23/93		KOZAKOVSKY
Lead G.F.	0.011	MG/L	11/19/93		LIM
Manganese	<0.01	MG/L	11/23/93		KOZAKOVSKY
Nickel	<0.04	MG/L	11/23/93		PRUTZMAN
Zinc	0.340	MG/L	11/23/93		PRUTZMAN

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PAGE 7

SAMPLE ID : STRIPPER
OUTFALL
DIGESTION
LAB ID 31117136
DATE RECEIVED: 11/17/93

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chromium G.F.	0.001	MG/L	11/24/93		BAKER
Copper	<0.02	MG/L	11/22/93		PRUTZMAN
Iron	0.11	MG/L	11/23/93		KOZAKOVSKY
Lead G.F.	<0.001	MG/L	11/19/93		LIM
Manganese	0.01	MG/L	11/23/93		KOZAKOVSKY
Nickel	<0.04	MG/L	11/23/93		PRUTZMAN
Zinc	0.024	MG/L	11/23/93		PRUTZMAN

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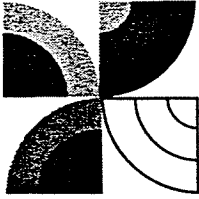
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LAB ID	SAMPLE ID		PARAMETER	RESULT
31117137	TOWN INTER	11/16/93	FILT. PREP ACID DIGESTION PREP	COMPLETE
31117138	STRIPPER	OUTFALL	FILT. PREP ACID DIGESTION PREP	COMPLETE

DATE AND ANALYST
11/19/93 CONLEY

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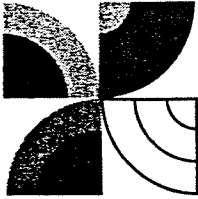
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ANALYTICAL REPORT FORM

PAGE 9

LAB ID	SAMPLE ID		PARAMETER	RESULT
31117139	TOWN INTER	11/16/93	DIGESTION ALUMINUM DISS. MG/L	0.2
31117140	STRIPPER	OUTFALL	DIGESTION ALUMINUM DISS. MG/L	0.2

DATE AND ANALYST
11/24/93 PRUTZMAN

Andrew K. Ecklund
ASST. LABORATORY DIRECTOR

pc: Jeffrey Schick - Groundwater Assoc. Inc.

MEADVILLE DIVISION

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VA Dept. of Health Laboratory I.D. No. 00145
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ROANOKE DIVISION

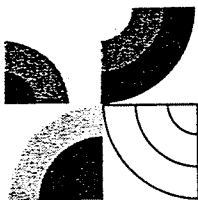
VA Dept. of Health Laboratory I.D. No. 001

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> = GREATER THAN

w.f. = WILL FOLLOW



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5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

02/21/94

TO: SIGNORE INC.
ATTN: MR. NED WARD
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. # 006422-01

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 1

PARAMETER	SAMPLE ID	INTERCEPT. WELL	STRIPPER INFLUENT
	LAB ID	02/14/94	02/14/94
	DATE RECEIVED:	40214071	40214072
		02/14/94	02/14/94

TRICHLOROETHYLENE	MG/L	0.004	0.027
1,1,1-TRICHLOROETHA*	MG/L	0.002	0.012
VOLATILE SET-UP		COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

Please reference the following page(s) for date and analyst.

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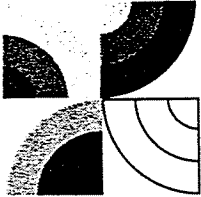
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ANALYTICAL REPORT FORM

PAGE 2

SAMPLE ID : STRIPPER
EFFLUENT
02/14/94
LAB ID 40214073
DATE RECEIVED: 02/14/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Trichloroethylene	<0.001	MG/L	02/17/94		BEERS
1,1,1-Trichloroethane	<0.001	MG/L	02/17/94		BEERS
Volatile Set-up	COMPLETE				

QUALITY ASSURANCE SUPERVISOR

pc: Jeff Schick - Groundwater Assoc.

MF LLE DIVISION

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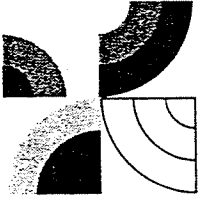
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ANALYTICAL REPORT FORM

PAGE 1

PARAMETER	SAMPLE ID	IRM-2I	IRM-1	EW-6.50
		02/14/94	02/14/94	02/14/94
	LAB ID	40214064	40214065	40214066
	DATE RECEIVED:	02/14/94	02/14/94	02/14/94

TRICHLOROETHYLENE MG/L	0.005	0.005	<0.001
1,1,1-TRICHLOROETHA* MG/L	0.002	0.003	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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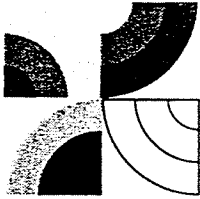
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ANALYTICAL REPORT FORM

PAGE 2

PARAMETER	LAB ID	DATE RECEIVED	EW-4.50	EW-1.50	MW-1I
			02/14/94	02/14/94	02/14/94
	40214067	02/14/94			
	40214068	02/14/94			
	40214069	02/14/94			

TRICHLOROETHYLENE	MG/L	<0.001	0.002	0.005
1,1,1-TRICHLOROETHA*	MG/L	<0.001	0.002	<0.001
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE

* 1,1,1-TRICHLOROETHANE

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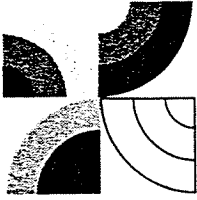
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ANALYTICAL REPORT FORM

PAGE 3

SAMPLE ID : TRIP BLANK
02/14/94

LAB ID 40214070
DATE RECEIVED: 02/14/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Trichloroethylene	<0.001	MG/L	02/17/94		BEERS
1,1,1-Trichloroethane	<0.001	MG/L	02/17/94		BEERS
Volatile Set-up	COMPLETE				

QUALITY ASSURANCE SUPERVISOR

pc: Jeff Schick - Groundwater Assoc.

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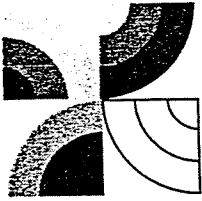
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ANALYTICAL REPORT FORM

PAGE 1

SAMPLE ID : TOWN WELL
03/03/94

LAB ID 40307058
DATE RECEIVED: 03/07/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Trichloroethylene	0.005	MG/L	03/09/94		BEERS
1,1,1-Trichloroethane	0.004	MG/L	03/09/94		BEERS
Volatile Set-up	COMPLETE				

pc: Jeffrey Schick -Groundwater Assoc. Inc.

Diane A. Tracy

QUALITY ASSURANCE SUPERVISOR

MEADVILLE DIVISION

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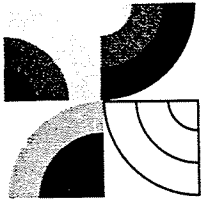
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05/11/94

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ANALYTICAL REPORT FORM

PAGE 1

PARAMETER	SAMPLE ID	SCHOOL	SCHOOL	TOWN WELL
		OUTSIDE	BOILER RM.	EFFLUENT
		05/02/94	05/02/94	05/02/94
	LAB ID	40503047	40503048	40503049
	DATE RECEIVED:	05/03/94	05/03/94	05/03/94

UNITS = MG/L

TRICHLOROETHYLENE	<0.0005	0.0015	0.0046
1,1,1-TRICHLOROETHA*	<0.0005	<0.0005	0.0020
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE

*1,1,1-TRICHLOROETHANE

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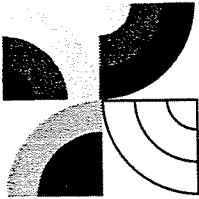
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ANALYTICAL REPORT FORM

PAGE 2

SAMPLE ID : GERMAINE
05/02/94

LAB ID 40503050
DATE RECEIVED: 05/03/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Trichloroethylene	0.0010	MG/L	05/09/94		BEERS
1,1,1-Trichloroethane	<0.0005	MG/L	05/09/94		BEERS
Volatile Set-up	COMPLETE				

PC: JEFFREY SCHICK - GROUNDWATER ASSOC. INC.

Andrew K. Ecklund

ASST. LABORATORY DIRECTOR

MEADVILLE DIVISION

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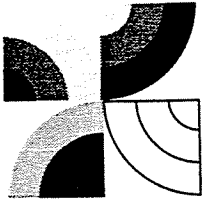
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ANALYTICAL REPORT FORM

PAGE 1

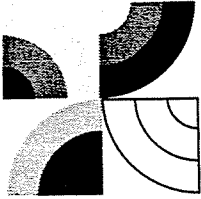
LAB ID	SAMPLE ID	PARAMETER	RESULT
40426092	INTERCEPT.	WELL-OUT 04/26/94	COMPLETE
40426093	STRIP.-IN	04/26/94	COMPLETE
40426094	STRIP.-OUT	04/26/94	COMPLETE

DATE AND ANALYST
04/27/94 CONLEY

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ANALYTICAL REPORT FORM

PAGE 2

LAB ID	SAMPLE ID	PARAMETER			RESULT
40426095	INTERCEPT.	WELL-OUT	FILT. PREP	ACID DIGESTION PREP	COMPLETE
40426096	STRIP.-IN	04/26/94	FILT. PREP	ACID DIGESTION PREP	COMPLETE
40426097	STRIP.-OUT	04/26/94	FILT. PREP	ACID DIGESTION PREP	COMPLETE

DATE AND ANALYST
04/27/94 CONLEY

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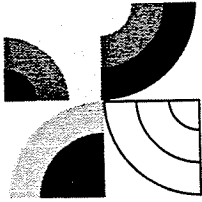
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PAGE 3

LAB ID	SAMPLE ID	PARAMETER			RESULT
40426098	INTERCEPT.	WELL-OUT	DIGESTION	ALUMINUM DISS. MG/L	<0.1
40426099	STRIP.-IN	04/26/94	DIGESTION	ALUMINUM DISS. MG/L	<0.1
40426100	STRIP.-OUT	04/26/94	DIGESTION	ALUMINUM DISS. MG/L	<0.1

DATE AND ANALYST
04/29/94 PRUTZMAN

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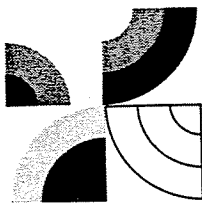
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ANALYTICAL REPORT FORM

PAGE 4

SAMPLE ID	:	INTERCEPT.	STRIP.-IN
		WELL-OUT	04/26/94
		04/26/94	
LAB ID		40426101	40426102
DATE RECEIVED:		04/26/94	04/26/94
PARAMETER			

UNITS = MG/L

CHLOROETHANE	<0.001	<0.001
1,1-DICHLOROETHANE	<0.001	<0.001
TRANS-1,2-DICHLOROE*	<0.001	<0.001
TETRACHLOROETHYLENE	<0.001	0.003
1,1,1-TRICHLOROETHA*	0.003	0.007
TRICHLOROETHYLENE	0.003	0.007
VINYL CHLORIDE	<0.001	<0.001
ACID DIGESTION PREP	COMPLETE	COMPLETE

*TRANS-1,2-DICHLOROETHYLENE

*1,1,1-TRICHLOROETHANE

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MEADVILLE DIVISION

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NY Dept. of Health Laboratory I.D. No. 10552
NY Dept. of Env. Conservation Approved Facility

ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
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ROANOKE DIVISION

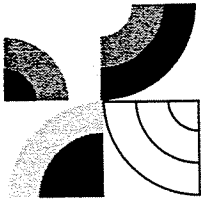
VA Dept. of Health Laboratory I.D. No. 00143

KEY:

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FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

05/11/94

TO: **SIGNORE INC.**
ATTN: MR. FLETCHER WARD
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. # P006422

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 5

SAMPLE ID : STRIP.-OUT
04/26/94

LAB ID 40426103
DATE RECEIVED: 04/26/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chloroethane	<0.001	MG/L	04/27/94		BEERS
1,1-Dichloroethane	<0.001	MG/L	04/27/94		BEERS
Trans-1,2-Dichloroethene	<0.001	MG/L	04/27/94		BEERS
Tetrachloroethylene	<0.001	MG/L	04/27/94		BEERS
1,1,1-Trichloroethane	<0.001	MG/L	04/27/94		BEERS
Trichloroethylene	<0.001	MG/L	04/27/94		BEERS
Vinyl Chloride	<0.001	MG/L	04/27/94		BEERS
Acid Digestion Preparation	COMPLETE		04/27/94		CONLEY

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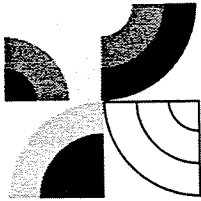
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ANALYTICAL REPORT FORM

PAGE 6

	SAMPLE ID	:	INTERCEPT.	STRIP.-IN
			WELL-OUT	04/26/94
			DIGESTION	DIGESTION
	LAB ID		40426104	40426105
PARAMETER	DATE RECEIVED:		04/26/94	04/26/94

CHROMIUM G.F. MG/L	<0.001	<0.001
COPPER MG/L	<0.02	<0.02
IRON MG/L	0.08	0.15
LEAD G.F. MG/L	0.003	0.002
MANGANESE MG/L	<0.01	0.01
NICKEL MG/L	<0.04	<0.04
ZINC MG/L	0.048	0.032

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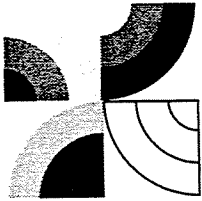
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ANALYTICAL REPORT FORM

PAGE 7

SAMPLE ID : STRIP.-OUT
04/26/94
DIGESTION
LAB ID 40426106
DATE RECEIVED: 04/26/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chromium G.F.	0.001	MG/L	04/29/94		LIM
Copper	<0.02	MG/L	04/28/94		KOZAKOVSKY/ LIM
Iron	<0.03	MG/L	04/29/94		KOZAKOVSKY
Lead G.F.	0.002	MG/L	04/28/94		BAKER/ LIM
Manganese	<0.01	MG/L	04/29/94		KOZAKOVSKY
Nickel	<0.04	MG/L	04/28/94		LIM
Zinc	0.007	MG/L	04/28/94		LIM

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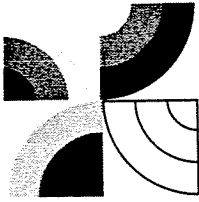
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ANALYTICAL REPORT FORM

PAGE 8

PARAMETER	LAB ID	DATE RECEIVED:	IRM-1 04/26/94	IRM-2I 04/26/94	IRM-3I 04/26/94	EW-5.50 04/26/94
TRICHLOROETHYLENE	MG/L		0.004	0.004	<0.001	<0.001
1,1,1-TRICHLOROETHA*	MG/L		0.002	0.002	<0.001	<0.001
VOLATILE SET-UP			COMPLETE	COMPLETE	COMPLETE	COMPLETE
*1,1,1-TRICHLOROETHANE						

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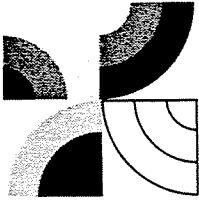
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ANALYTICAL REPORT FORM

PAGE 9

PARAMETER	SAMPLE ID	EW-6.50	EW-7.50	EW-4.50	EW-2.50
		04/26/94	04/26/94	04/26/94	04/26/94
	LAB ID	40426111	40426112	40426113	40426114
	DATE RECEIVED:	04/26/94	04/26/94	04/26/94	04/26/94

TRICHLOROETHYLENE	MG/L	<0.001	<0.001	<0.001	<0.001
1,1,1-TRICHLOROETHA*	MG/L	<0.001	<0.001	<0.001	<0.001
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE
*1,1,1-TRICHLOROETHANE					

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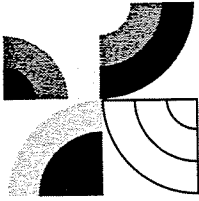
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ANALYTICAL REPORT FORM

PAGE 10

PARAMETER	LAB ID	DATE RECEIVED:	MW-1I 04/26/94	EW-1.50 04/26/94	MW-8I 04/26/94	MW-9I 04/26/94
TRICHLOROETHYLENE MG/L			0.005	0.002	<0.001	0.004
1,1,1-TRICHLOROETHA* MG/L			<0.001	0.003	<0.001	0.002
VOLATILE SET-UP			COMPLETE	COMPLETE	COMPLETE	COMPLETE
*1,1,1-TRICHLOROETHANE						

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Finger Lakes Environmental Laboratory

NEW YORK STATE APPROVED
ENVIRONMENTAL LABORATORY
ELAP # 11338

CLIENT: Dansville Water Dept.
14 Clara Barton St.
Dansville, NY 14437

DATE REC'D: 11/6/95
LABORATORY NO.: M110695-3
REPORT DATE: 12/8/95
FEDERAL ID #: 2501015

SAMPLE INFORMATION

SAMPLE DATE: 11/6/95 COUNTY: Livingston
SAMPLE TIME: 1030 STATION NO.: 00333000
SAMPLER: Werth PROGRAM CODE: 100
SAMPLING POINT: tap @ chlorine plant
1.5 ppm- Residual chlorine at sample point

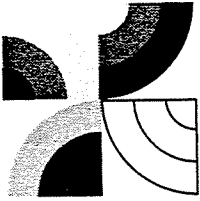
LABORATORY REPORT

ANALYSIS	METHOD CODE	RESULT	UNITS	DATE ANALYZED
Nitrate	Orion1985	2.1	mg/L	11/9/95
Gross alpha	EPA900.0	LT 3.	pCi/L	11/21/95
Gross beta	EPA900.0	LT 4.	pCi/L	11/21/95

LT= less than
NO₃ analyzed by ELAP # 11216
Gross alpha, beta analyzed by ELAP # 10155

Results released by: Jacqueline M. O'Neal

Laboratory Director



FREE-COL LABORATORIES, INC.

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05/11/94

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ANALYTICAL REPORT FORM

PAGE 11

PARAMETER	SAMPLE ID	MW-5I	MW-4I	EW-4.50
		04/26/94	04/26/94	DUPLICATE
	LAB ID	40426119	40426120	40426121
	DATE RECEIVED:	04/26/94	04/26/94	04/26/94

TRICHLOROETHYLENE	MG/L	0.001	0.034	<0.001
1,1,1-TRICHLOROETHA*	MG/L	0.001	0.003	<0.001
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE
*1,1,1-TRICHLOROETHANE				

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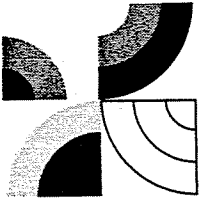
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ANALYTICAL REPORT FORM

PAGE 12

SAMPLE ID : TRIP BLANK
04/26/94

LAB ID 40426122
DATE RECEIVED: 04/26/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Trichloroethylene	<0.001	MG/L	04/28/94		BEERS/ ECKLUND
1,1,1-Trichloroethane	<0.001	MG/L	04/28/94		BEERS/ ECKLUND
Volatile Set-up	COMPLETE				

PC: JEFFREY SCHICK - GROUNDWATER ASSOC. INC.

Andrew K. Ecklund
ASST. LABORATORY DIRECTOR

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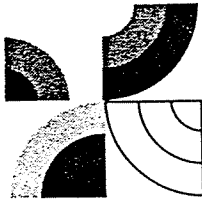
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ANALYTICAL REPORT FORM

PAGE 1

PARAMETER	SAMPLE ID	LAB ID	DATE RECEIVED	1RM-1 07/11/94	1RM-2I 07/11/94	EW-6.50 07/11/94	EW-4.50 07/11/94
		40711077	07/11/94	40711078	40711079	40711079	40711080
				07/11/94	07/11/94	07/11/94	07/11/94

	COMPLETE	COMPLETE	COMPLETE	COMPLETE
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE	COMPLETE
TRICHLOROETHYLENE MG/L	0.005	0.005	<0.001	<0.001
1,1,1-TRICHLOROETHA* MG/L	0.004	0.002	<0.001	<0.001
*1,1,1-TRICHLOROETHANE				

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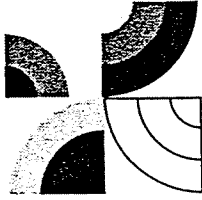
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ANALYTICAL REPORT FORM

PAGE 2

	SAMPLE ID	:	MW-1I	EW-1.50
			07/11/94	07/11/94
	LAB ID		40711081	40711082
PARAMETER	DATE RECEIVED:		07/11/94	07/11/94

VOLATILE SET-UP		COMPLETE	COMPLETE
TRICHLOROETHYLENE	MG/L	0.002	0.001
1,1,1-TRICHLOROETHA*	MG/L	<0.001	<0.001
*1,1,1-TRICHLOROETHANE			

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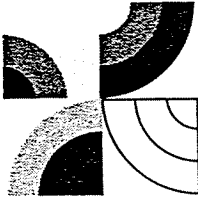
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U.S. Office of Surface Mining Approved Facility

ROANOKE DIVISION

VA Dept. of Health Laboratory I.D. No. 00



FREE-COL LABORATORIES, INC.

P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

07/18/94

TO:

SIGNORE INC.
ATTN: MR. FLETCHER WARD
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. #

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 3

SAMPLE ID : BLANK
07/11/94

LAB ID 40711083
DATE RECEIVED: 07/11/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Volatile Set-up	COMPLETE				
Trichloroethylene	<0.001	MG/L	07/13/94		ECKLUND
1,1,1-Trichloroethane	<0.001	MG/L	07/13/94		ECKLUND

QUALITY ASSURANCE SUPERVISOR

pc: Jeffrey Schick - Groundwater Assoc. Inc.

MEADVILLE DIVISION
A.I.H.A. Accreditation No. 98
U.S. Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory
NY Dept. of Health Laboratory I.D. No. 10552
NY Dept. of Env. Conservation Approved Facility

ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
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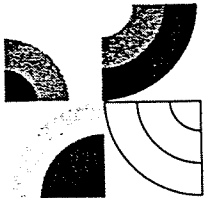
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ELLCOTTVILLE

NY 14731-1448

P.O. #

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 1

SAMPLE ID : H VALLEY
WELL
07/11/94
LAB ID 40711084
DATE RECEIVED: 07/11/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
1,1,1-Trichloroethane	0.002	MG/L	07/13/94		ECKLUND
Trichloroethylene	0.004	MG/L	07/13/94		ECKLUND
Volatile Set-up	COMPLETE				

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ROANOKE DIVISION

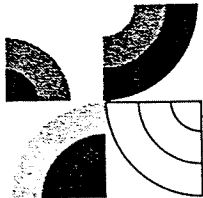
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ANALYTICAL REPORT FORM

PAGE 2

SAMPLE ID : STRIPPER
INFLUENT
07/11/94
LAB ID 40711085
DATE RECEIVED: 07/11/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
1,1,1-Trichloroethane	0.005	MG/L	07/13/94		ECKLUND
Trichloroethylene	0.008	MG/L	07/13/94		ECKLUND
Volatile Set-up	COMPLETE				

MEADVILLE DIVISION

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U.S. Public Health Services Approved Facility
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I. Dept. of Health Laboratory I.D. No. 10552
I., Dept. of Env. Conservation Approved Facility

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ROANOKE DIVISION

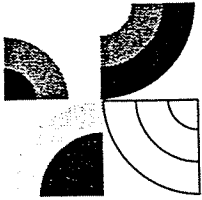
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ANALYTICAL REPORT FORM

PAGE 3

SAMPLE ID : STRIPPER
EFFLUENT
07/11/94
LAB ID 40711086
DATE RECEIVED: 07/11/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
1,1,1-Trichloroethane	<0.001	MG/L	07/13/94		ECKLUND
Trichloroethylene	<0.001	MG/L	07/13/94		ECKLUND
Volatile Set-up	COMPLETE				

QUALITY ASSURANCE SUPERVISOR

pc: Jeffrey Schick - Groundwater Assoc. Inc.

MEADVILLE DIVISION
H.A. Accreditation No. 98
U.S. Public Health Services Approved Facility
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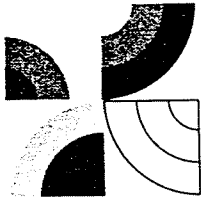
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VA Dept. of Health Laboratory I.D. No. 00143

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5815 AIRPORT ROAD
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10/18/94

TO: SIGNORE INC.
ATTN: MR. FLETCHER WARD
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. # P006422-01
RE: ANNUAL MONITORING WELL SAMPLING
ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 1

PARAMETER	SAMPLE ID	EW-3.50 10/13/94	IRM-3I 10/13/94	EW-5.50 10/13/94	IRM-2I 10/13/94
	LAB ID	41013099	41013100	41013101	41013102
	DATE RECEIVED:	10/13/94	10/13/94	10/13/94	10/13/94
1,1,1-TRICHLOROETHA* MG/L		<0.001	<0.001	<0.001	0.002
TRICHLOROETHYLENE MG/L		0.001	0.001	0.002	0.004
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE

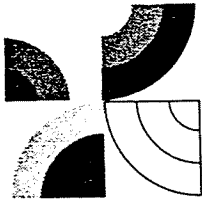
* 1,1,1-Trichloroethane

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H.A. Accreditation No. 98
Public Health Services Approved Facility
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ELLCOTTVILLE

NY 14731-1448

P.O. # P006422-01

RE: ANNUAL MONITORING WELL SAMPLING

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 2

PARAMETER	SAMPLE ID	IRM-1	IRM-1 DUP	EW-7.50	EW-4.50
		10/13/94	10/13/94	10/13/94	10/13/94
	LAB ID	41013103	41013104	41013105	41013106
	DATE RECEIVED:	10/13/94	10/13/94	10/13/94	10/13/94
1,1,1-TRICHLOROETHA* MG/L		0.001	0.002	<0.001	<0.001
TRICHLOROETHYLENE MG/L		0.004	0.004	<0.001	0.002
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-Trichloroethane

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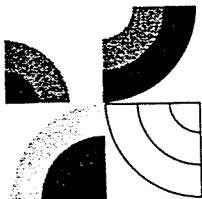
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VA Dept. of Health Laboratory I.D. No. 00143

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ELLCOTTVILLE

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P.O. # P006422-01

RE: ANNUAL MONITORING WELL SAMPLING

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 3

PARAMETER	SAMPLE ID	EW-6.50	EW-1.25	EW-2.25	EW-2.50
		10/13/94	10/13/94	10/13/94	10/13/94
	LAB ID	41013107	41013108	41013109	41013110
	DATE RECEIVED:	10/13/94	10/13/94	10/13/94	10/13/94
1,1,1-TRICHLOROETHA* MG/L		<0.001	0.023	<0.001	<0.001
TRICHLOROETHYLENE MG/L		<0.001	0.10	<0.001	<0.001
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-Trichloroethane

Please reference the following page(s) for date and analyst.

MI. ILE DIVISION
H.A. Accreditation No. 98
Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory
MI Dept. of Health Laboratory I.D. No. 10552
Dept. of Env. Conservation Approved Facility

ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 9907C
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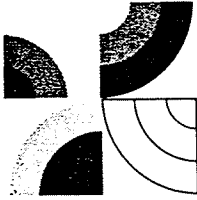
ROANOKE DIVISION
VA Dept. of Health Laboratory I.D. No. 00143

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10/18/94

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ELLCOTTVILLE

NY 14731-1448

P.O. # P006422-01

RE: ANNUAL MONITORING WELL SAMPLING

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 4

PARAMETER	SAMPLE ID	MW-1I	EW-1.50	MW-1S	MW-1D
		10/13/94	10/13/94	10/13/94	10/13/94
	LAB ID	41013111	41013112	41013113	41013114
	DATE RECEIVED:	10/13/94	10/13/94	10/13/94	10/13/94
1,1,1-TRICHLOROETHA* MG/L		<0.001	0.016	<0.001	<0.001
TRICHLOROETHYLENE MG/L		0.017	0.010	<0.001	<0.001
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE

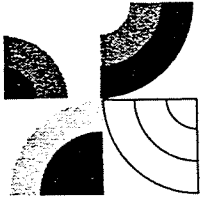
* 1,1,1-Trichloroethane

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ML STATE DIVISION
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Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
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MI Dept. of Health Laboratory I.D. No. 10552
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ROANOKE DIVISION
VA Dept. of Health Laboratory I.D. No. 00143



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10/18/94

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ELLICOTTVILLE

NY 14731-1448

P.O. # P006422-01

RE: ANNUAL MONITORING WELL SAMPLING

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 5

PARAMETER	SAMPLE ID	MW-4I	MW-4S	MW-9I	MW-8I
		10/13/94	10/13/94	10/13/94	10/13/94
	LAB ID	41013115	41013116	41013117	41013118
	DATE RECEIVED:	10/13/94	10/13/94	10/13/94	10/13/94
1,1,1-TRICHLOROETHA* MG/L		<0.001	<0.001	0.003	<0.001
TRICHLOROETHYLENE MG/L		<0.001	0.002	0.006	<0.001
VOLATILE SET-UP		COMPLETE	COMPLETE	COMPLETE	COMPLETE

* 1,1,1-Trichloroethane

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MEADVILLE DIVISION
/ H.A. Accreditation No. 98
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PA D.E.R. Laboratory I.D. No. 20-073
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/ Dept. of Health Laboratory I.D. No. 10552
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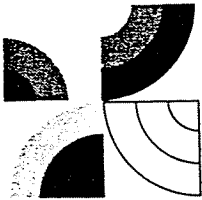
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NY 14731-1448

P.O. # P006422-01

RE: **ANNUAL MONITORING WELL SAMPLING**

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 6

SAMPLE ID : MW-5I
10/13/94

LAB ID 41013119
DATE RECEIVED: 10/13/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
1,1,1-Trichloroethane	<0.001	MG/L	10/15/94		ECKLUND/ MAJOR
Trichloroethylene	<0.001	MG/L	10/15/94		ECKLUND/ MAJOR
Volatile Set-up	COMPLETE				

M. ILLINOIS DIVISION

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- PA Dept. of Agriculture Approved Dairy Laboratory
- MI Dept. of Health Laboratory I.D. No. 10552
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ROANOKE DIVISION

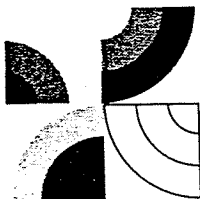
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TO: SIGNORE INC.
ATTN: MR. FLETCHER WARD
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. # P006422-01
RE: ANNUAL MONITORING WELL SAMPLING
ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 7

SAMPLE ID : TRIP BLANK
10/13/94

LAB ID 41013120
DATE RECEIVED: 10/13/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
1,1,1-Trichloroethane	<0.001	MG/L	10/15/94		ECKLUND/ MAJOR
Trichloroethylene	<0.001	MG/L	10/15/94		ECKLUND/ MAJOR
Volatile Set-up	COMPLETE				

QUALITY ASSURANCE SUPERVISOR

pc: Mr. Jeffrey Schick

PA DEPT. OF ENV. CONSERVATION APPROVED FACILITY
I.H.A. Accreditation No. 98
U.S. Public Health Services Approved Facility
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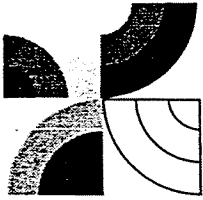
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VA Dept. of Health Laboratory I.D. No. 00143

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10/18/94

TO: SIGNORE INC.
ATTN: MR. FLETCHER WARD
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ELLIOTTVILLE NY 14731-1448

P.O. # P006422-01

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ANALYTICAL REPORT FORM

PAGE 1

SAMPLE ID	: GERMAIN	BOILER RM.	SCHOOLWELL
	10/13/94	10/13/94	OUTSIDE
			10/13/94
LAB ID	41013095	41013096	41013097
PARAMETER	DATE RECEIVED: 10/13/94	10/13/94	10/13/94

1,1,1-TRICHLOROETHA* MG/L	<0.001	<0.001	<0.001
TRICHLOROETHYLENE MG/L	0.001	0.001	<0.001
VOLATILE SET-UP	COMPLETE	COMPLETE	COMPLETE

*1,1,1-Trichloroethane

Please reference the following page(s) for date and analyst.

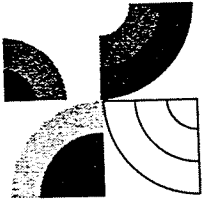
MILE DIVISION

MA H.A. Accreditation No. 98
IL Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory
MI Dept. of Health Laboratory I.D. No. 10552
IL Dept. of Env. Conservation Approved Facility

ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 9907C
NC Dept. of Natural Resources Cert. No. 236
MI Dept. of Public Health Approved Facility
U.S. Office of Surface Mining Approved Facility

ROANOKE DIVISION

VA Dept. of Health Laboratory I.D. No. 00143



FREE-COL LABORATORIES, INC.

P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

10/18/94

TO: SIGNORE INC.
ATTN: MR. FLETCHER WARD
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. # P006422-01

RE: ANNUAL MONITORING WELL SAMPLING

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 2

SAMPLE ID : TOWN WELL
10/13/94

LAB ID 41013098
DATE RECEIVED: 10/13/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
1,1,1-Trichloroethane	0.001	MG/L	10/14/94		MAJOR
Trichloroethylene	0.004	MG/L	10/14/94		MAJOR
Volatile Set-up	COMPLETE				

pc: Mr. Jeffrey Schick

QUALITY ASSURANCE SUPERVISOR

MEADVILLE DIVISION
I.H.A. Accreditation No. 98
U.S. Public Health Services Approved Facility
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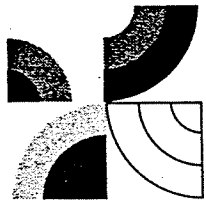
ROANOKE DIVISION
VA Dept. of Health Laboratory I.D. No. 00143

KEY:

< = LESS THAN

> = GREATER THAN

w.f. = WILL FOLLOW



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5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

R 11-2-94

10/27/94

TO: SIGNORE INC.
ATTN: MR. FLETCHER WARD
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. # P006422-01

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 1

PARAMETER	SAMPLE ID	STRIP. INF	STRIP. EFF
		10/13/94	10/13/94
	LAB ID	41013086	41013087
	DATE RECEIVED:	10/13/94	10/13/94

UNITS = MG/L

CHLOROETHANE	<0.001	<0.001
1,1-DICHLOROETHANE	<0.001	<0.001
TRANS-1,2-DICHLOROE*	<0.001	<0.001
TETRACHLOROETHYLENE	0.002	<0.001
1,1,1-TRICHLOROETHA*	0.003	<0.001
TRICHLOROETHYLENE	0.008	<0.001
VINYL CHLORIDE	<0.001	<0.001
SAMPLE FILTERED	COMPLETE	COMPLETE
ACID DIGESTION PREP	COMPLETE	COMPLETE

* Some of the above compounds have been abbreviated. Please reference the following page for their complete names.

Please reference the following page(s) for date and analyst.

M ILLINOIS DIVISION
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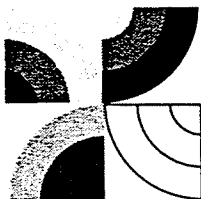
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5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

10/27/94

TO: **SIGNORE INC.**
ATTN: MR. FLETCHER WARD
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. # P006422-01

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 2

SAMPLE ID : TOWN WELL
10/13/94

LAB ID 41013088
DATE RECEIVED: 10/13/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chloroethane	<0.001	MG/L	10/14/94		MAJOR
1,1-Dichloroethane	<0.001	MG/L	10/14/94		MAJOR
Trans-1,2-Dichloroethene	<0.001	MG/L	10/14/94		MAJOR
Tetrachloroethylene	<0.001	MG/L	10/14/94		MAJOR
1,1,1-Trichloroethane	<0.001	MG/L	10/14/94		MAJOR
Trichloroethylene	0.004	MG/L	10/14/94		MAJOR
Vinyl Chloride	<0.001	MG/L	10/14/94		MAJOR
Sample Filtration	COMPLETE		10/14/94		CONLEY
Acid Digestion Preparation	COMPLETE		10/14/94		CONLEY

MIDDLE DIVISION

.H.A. Accreditation No. 98
S. Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory
VA Dept. of Health Laboratory I.D. No. 10552
Dept. of Env. Conservation Approved Facility

ND Dept. of Health Cert. No. R-083
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VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 9907C
NC Dept. of Natural Resources Cert. No. 236
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ROANOKE DIVISION

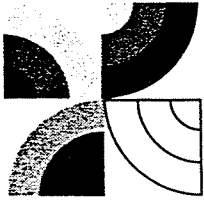
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5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

10/27/94

TO: **SIGNORE INC.**
ATTN: MR. FLETCHER WARD
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. # P006422-01

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 3

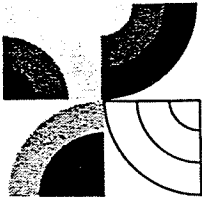
LAB ID	SAMPLE ID	DATE	PREP	PARAMETER	RESULT
41013089	STRIP. INF	10/13/94	FILT. PREP	ALUMINUM DISS. MG/L	<0.1
41013090	STRIP. EFF	10/13/94	FILT. PREP	ALUMINUM DISS. MG/L	<0.1
41013091	TOWN WELL	10/13/94	FILT. PREP	ALUMINUM DISS. MG/L	0.1

DATE AND ANALYST
10/25/94 KOZAKOVSKY

ME ...LE DIVISION
/ H.A. Accreditation No. 98
Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
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I Dept. of Health Laboratory I.D. No. 10552
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FREE-COL LABORATORIES, INC.

P.O. BOX 557, COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466

5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

10/27/94

TO: **SIGNORE INC.**
ATTN: MR. FLETCHER WARD
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. # P006422-01

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 4

PARAMETER	SAMPLE ID	STRIP. INF	STRIP. EFF
		10/13/94	10/13/94
		DIGESTION	DIGESTION
	LAB ID	41013092	41013093
	DATE RECEIVED:	10/13/94	10/13/94

CHROMIUM G.F. MG/L	<0.001	<0.001
COPPER MG/L	0.02	<0.02
IRON MG/L	<0.03	<0.03
LEAD G.F. MG/L	<0.001	<0.001
MANGANESE MG/L	<0.01	0.01
NICKEL MG/L	<0.04	<0.04
ZINC ICP MG/L	<0.005	<0.005

Please reference the following page(s) for date and analyst.

ML STATE DIVISION
H.A. Accreditation No. 98
Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
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Dept. of Health Laboratory I.D. No. 10552
Dept. of Env. Conservation Approved Facility

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MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 9907C
NC Dept. of Natural Resources Cert. No. 236
MI Dept. of Public Health Approved Facility
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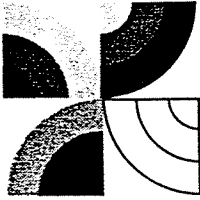
ROANOKE DIVISION
VA Dept. of Health Laboratory I.D. No. 00143

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5815 AIRPORT ROAD
ROANOKE, VIRGINIA 24012
PHONE: (703) 265-2544
FAX: (703) 362-1663

10/27/94

TO: **SIGNORE INC.**
ATTN: MR. FLETCHER WARD
P.O. BOX 1448
ELLCOTTVILLE

NY 14731-1448

P.O. # P006422-01

ACCOUNT NO. 01869

ANALYTICAL REPORT FORM

PAGE 5

SAMPLE ID : TOWN WELL
10/13/94
DIGESTION
LAB ID 41013094
DATE RECEIVED: 10/13/94

PARAMETER	RESULTS	UNITS	DATE	AND	ANALYST
Chromium G.F.	<0.001	MG/L	10/24/94		LIM
Copper	<0.02	MG/L	10/17/94		KOZAKOVSKY
Iron	<0.03	MG/L	10/18/94		KOZAKOVSKY
Lead G.F.	<0.001	MG/L	10/18/94		LIM/ BAKER
Manganese	<0.01	MG/L	10/18/94		KOZAKOVSKY
Nickel	<0.04	MG/L	10/18/94		KOZAKOVSKY
Zinc ICP	<0.005	MG/L	10/21/94		PRUTZMAN

pc: Mr. Jeffrey Schick

Andrew K. Ecklund
ASST. LABORATORY DIRECTOR

MASSACHUSETTS DIVISION
N.H.A. Accreditation No. 98
U.S. Public Health Services Approved Facility
PA D.E.R. Laboratory I.D. No. 20-073
PA Dept. of Agriculture Approved Dairy Laboratory
MI Dept. of Health Laboratory I.D. No. 10552
MI Dept. of Env. Conservation Approved Facility

ND Dept. of Health Cert. No. R-083
MD Dept. of Health Cert. No. 130
VA Dept. of Health Laboratory I.D. No. 00145
WV Dept. of Health Certification No. 9907C
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U.S. Office of Surface Mining Approved Facility

ROANOKE DIVISION
VA Dept. of Health Laboratory I.D. No. 00143

February 16, 1995

Mr. Jim Fitzpatrick
Signore, Inc.
43 Jefferson Street
Ellicottville, New York 14731

RE: **Monitoring Well Network Decommissioning Report**

Dear Mr. Fitzpatrick

Ground Water Associates, Inc. (GWA) has completed the abandonment and rehabilitation of the monitoring well network installed as part of the Remedial Investigation. This project was completed in accordance with procedures identified and approved by Mr. Greg Sutton of the NYSDEC in his letter dated March 18, 1994. The following letter report summarizes the activities completed.

Monitoring Well Abandonments

Monitoring wells that were no longer part of the Remedial Action Monitoring Plan (RAMP) were properly abandoned during the weeks of December 12, 1994 and December 19, 1994. These wells are listed in Table 1. Abandonment was completed according to the following procedure.

As agreed by NYSDEC, wells identified for abandonment were abandoned in place by means of grout injection without casing removals. The first task in the abandonment was to fill the casing with a grout mixture of:

- Portland Cement - 94 lbs. (1 bag)
- Sodium Bentonite - 3.9 lbs.
- Water - 6.5 Gallons

A 1-inch diameter hose was inserted to the bottom of the well, and the grout injected from the bottom up, at a rate of approximately 5 gallons per minute. The mixture was pumped until the grout appeared at the surface. The grout hose was then withdrawn and the well casing again filled from the top. After allowing the grout to cure for a minimum of 24 hours, the procedure was repeated until the casing was grouted to the surface.

After the grout cured, the protective casing was removed using a backhoe. A ferrous metal marker was then buried in the grouted borehole over the remaining casing to mark the location. The surface casing excavation was then filled with a clean backfill material. The ground surface was returned to its pre-well condition, i.e., asphalt patched, gravel or grass.

GWA supervised the abandonments, measuring depths and grout volumes. A photographic record, along with locations measured from permanent reference points, was developed for each abandoned well. Table 1 lists the details of the abandonment.

Surface Completion Replacement

In addition to the abandonments, those wells remaining as part of the RAMP, were rehabilitated to various degrees, as listed in Table 2. The protective coverings and surface seals for all on-site at-grade completions were replaced. The new protective covers were equipped with bolt-down lids, gasket seal, and the industry standard symbol for monitoring wells and the words "MONITORING WELL" on the outer cover. A locking expansion plug was placed on the inner well casing. A schematic of the at-grade completions is presented on Figure 1.

In addition, the above-grade completion and grout seal for MW-2i was also replaced. A schematic of the new above-grade completion is presented on Figure 2.

All wells are now lockable and keyed alike, and designed to prevent tampering and surface runoff from entering the casing.

As a result of the protective casing replacements, the top of casing reference points for each well were changed. The casing reference points must be re-surveyed and the new elevations established prior to use in the generation of subsequent potentiometric surface maps.

Redevelopment

Several RAMP monitoring wells were also redeveloped to remove excess siltation buildup in the well and restore the well to its original installed depth. Table 2 lists the reported well depth and depth following redevelopment. The wells were redeveloped by air lift methods.

Program Changes

Three changes to the procedures specified in the NYSDEC-approved Scope of Work were made as part of the field program. Changes were based upon field conditions encountered.

The 36-inch diameter manhole over EW-7.25 was not removed as it was installed during the road construction, and subsequently an integral part of the road. The manhole was, however, filled with sand and inner surface casing removed.

TEW-1 was not filled with grout as planned. The well had been sealed with a welded lid on and the surface seal appears in satisfactory condition. Additionally, the well is at the base of a well-established pine tree with casing excavation efforts having the potential to impact the tree. Therefore, the well was not abandoned.

Mr. Jim Fitzpatrick
Signore, Inc.
Ellicottville, New York

February 16, 1995

Page 3

MW-8s was not found, nor has it been sampled during the RAMP. Several shallow zone wells were retained on-site to monitor the shallower zone, including MW-1s, approximately 100 feet away from MW-8s reported location. Therefore, the well was not replaced and is considered abandoned.

Should you have questions regarding this report, or if there is a problem with the wells, please contact me at (716) 381-5460 or Jeff Schick at (614) 882-3136.

Sincerely,
GROUND WATER ASSOCIATES, INC.



Norm Gardner, C.P.G.
District Manager

Attachments

c.c. Greg Sutton, NYSDEC

TABLE 1
 MONITORING WELL ABANDONMENTS
 SIGNORE, INC.
 ELLICOTTVILLE, NEW YORK

Well ID	Date Installed	Reported Depth	Pre-Grouting Depth	Grout Volume		Completion Type	Location	Comments
				Used (Gallons)	Used			
MW-2s	11/86	15.0	16.2	4		Above-Grade	Grass	
MW-2d	02/87	68.0	67.8	17		Above-Grade	Grass	
MW-4d	02/87	70.0	67.5	16		At-Grade	Grass	
MW-5d	02/87	69.3	10.2	2		At-Grade	Gravel	
MW-6s	11/86	17.0	17.1	4		At-Grade	Pavement	
MW-6d	01/87	70.0	54.5	13		At-Grade	Pavement	
MW-8d	01/87	76.0	66.8	16		At-Grade	Gravel	
MW-9s	01/87	25.5	22.7	6		At-Grade	Pavement	
MW-9d	02/87	73.0	72.3	18		At-Grade	Pavement	
MW-10s	01/87	25.5	23.0	6		At-Grade	Pavement	
MW-10d	01/87	75.0	73.6	18		At-Grade	Pavement	
MW-10vd	01/87	89.5	86.5	21		At-Grade	Pavement	
MW-11s	01/87	24.0	23.5	6		At-Grade	Pavement	
MW-11i	01/87	48.0	47.4	12		At-Grade	Pavement	
MW-11d	01/87	74.6	53.6	13		At-Grade	Pavement	
MW-12s	01/87	26.1	29.0	7		Above-Grade	Grass	
MW-12i	02/87	50.5	53.3	13		Above-Grade	Grass	
MW-12d	02/87	73.5	73.0	18		Above-Grade	Grass	
EW-4.25	07/90	25.0	26.5	6		Above-Grade	Grass	
EW-5.25	07/90	25.0	23.9	6		At-Grade	Grass	
EW-6.25	07/90	25.0	25.4	6		Above-Grade	Grass	
EW-7.25	06/90	25.0	24.7	6		At-Grade	Pavement	Manhole Cover Left in Road
IRM-3s	06/90	26.3	26.5	6		Above-Grade	Grass	
TEW-1	???	54.9	54.1	0		Above-Grade	Grass	Casing left in place, lid welded on
TEW-3	???	29.9	27.5	7		Above-Grade	Grass	

All depths reported in Feet.

TABLE 2
 MONITORING WELL PROGRAM
 SIGNORE, INC.
 ELLICOTTVILLE, NEW YORK

Well ID	Date Installed	Reported Installation Depth	Measured Depth 12/28/94	Depth to Water 12/28/94	Completion		Action Taken
					Type	Location	
MW-1s	11/86	15.0	14.8	12.56	At-Grade	Gravel	New Surface Completion
MW-1i	02/87	50.0	47.1	12.63	At-Grade	Gravel	New Surface Completion
MW-1d	02/87	70.5	68.0	13.07	At-Grade	Gravel	New Surface Completion
MW-2i	02/87	49.0	49.9	16.15	Above-Grade	Grass	New Surface Completion
MW-4s	11/86	17.0	16.2	10.36	At-Grade	Grass	New Surface Completion
MW-4i	02/87	48.5	48.3	10.82	At-Grade	Grass	New Surface Completion, Redevelop
MW-5s	11/86	17.5	15.2	10.38	At-Grade	Gravel	New Surface Completion, Redevelop
MW-5i	02/87	49.8	46.6	11.29	At-Grade	Gravel	New Surface Completion, Redevelop
MW-6i	01/87	50.0	49.4	10.62	At-Grade	Pavement	New Surface Completion
MW-8i	01/87	49.9	46.4	12.53	At-Grade	Gravel	New Surface Completion
MW-9i	01/87	49.5	47.7	11.88	At-Grade	Pavement	New Surface Completion
MW-10i	01/87	49.8	49.5	10.00	At-Grade	Pavement	New Surface Completion
EW-1.25	07/90	25.0	24.1	12.63	At-Grade	Gravel	New Surface Completion
EW-1.50	07/90	50.0	49.0	13.03	At-Grade	Gravel	New Surface Completion, Redevelop
EW-2.25	07/90	25.0	27.3	13.85	Above-Grade	Gravel	None
EW-2.50	07/90	50.0	51.1	14.22	Above-Grade	Gravel	New Lock Hasp
EW-3.50	08/90	50.0	49.9	7.80	At-Grade	Gravel	None
EW-4.50	07/90	50.0	50.4	17.59	Above-Grade	Grass	None
EW-5.50	07/90	50.0	50.3	13.05	At-Grade	Grass	None
EW-6.50	06/90	50.0	51.6	16.68	Above-Grade	Grass	None
EW-7.50	06/90	50.0	48.0	11.97	At-Grade	Pavement	None
IRM-1	06/90	48.8	48.5	24.59	Above-Grade	Grass	None
IRM-2s	06/90	24.7	24.5	13.69	Above-Grade	Grass	None
IRM-2i	06/90	50.5	51.3	24.89	Above-Grade	Grass	None
IRM-3i	06/90	51.9	51.5	18.78	Above-Grade	Grass	None

All depths reported in Feet.

GROUND WATER ASSOCIATES, INC.

16 Commercial Drive, PO Box 280
Dracut, MA 01826
(508) 970-5388

1011 Route 22
Bridgewater, NJ 08807
(908) 704-8881

1 Grove Street, Suite 201A
Pittsford, NY 14534
(716) 381-5460

771 Brooksedge Plaza Drive
Westerville, OH 43081
(614) 882-3136