

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to: GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Badger Technical Services, LLC - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel L. Janssen

Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Background Wells	02813	157005530	11/13 - 11/14/13

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

November 2013

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Clair E. Ruenger

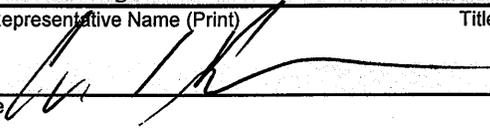
Environmental Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature 

Date

3 Feb 14

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

- Found uploading problems on _____ Initials _____
- Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other

Case Narrative
Groundwater Monitoring
License Number 2813
Background Wells
November 2013
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities.

No compounds were detected above a Preventive Action Limit (PAL).

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 8260C.

Base neutral acids (BNAs) analysis was performed by BTS using method SW 846 8270D.

Dinitrotoluene (DNT) analysis was performed by BTS using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

November 2013

License No: 2813

ALL HITS REPORT

Background Wells

Report Date: 1/30/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Trichloroethene	352	BGM-9103	11/14/2013	1	0.37	0.1	0.5	ug/l	0.5	5

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Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
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Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Badger Technical Services, LLC - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel L. Janssen Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Landfill #5	02813	157005530	11/12 - 11/20/13

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

November 2013

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Clair E. Ruenger

Environmental Manager

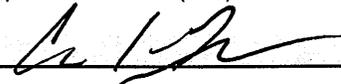
(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature



Date

3 Feb 14

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EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other

Case Narrative
Groundwater Monitoring
License Number 2813
Landfill #5
November 2013
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities.

Total dinitrotoluene (DNT) exceeded the Enforcement Standard (ES) in ELM-8907 (220) and ELM-8908 (221).

Total DNT exceeded the Preventive Action Limit (PAL) in ELN-0801B (455), ELN-0801C (456), ELN-0801E (457), ELN-0802C (459), ELN-1003A (467), ELN-1003B (468), and ELN-1003C (469). 2,4-DNT exceeded the PAL in ELN-0802C (459) and ELN-1003A (467). 2,6-DNT exceeded the PAL in ELM-8907 (220), ELM-8908 (221), and ELN-0801E (457).

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 8260C.

Base neutral acids (BNAs) analysis was performed by BTS using method SW 846 8270D.

DNT analysis was performed by BTS using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2013

QUARTERLY GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 1/30/2014

Parameter Name	Lic No.	Well No.	Well Name	Dup	Result	Units	PAL	ES
2,6-Dinitrotoluene	2813	220	ELM-8907	1	0.016	ug/l	0.005	0.05
Dinitrotoluene, total	2813	220	ELM-8907	1	1.32	ug/l	0.005	0.05
2,6-Dinitrotoluene	2813	221	ELM-8908	1	0.036	ug/l	0.005	0.05
Dinitrotoluene, total	2813	221	ELM-8908	1	5.15	ug/l	0.005	0.05
2,6-Dinitrotoluene	2813	221	ELM-8908	2	0.034	ug/l	0.005	0.05
Dinitrotoluene, total	2813	221	ELM-8908	2	4.87	ug/l	0.005	0.05
Dinitrotoluene, total	2813	455	ELN-0801B	1	0.026	ug/l	0.005	0.05
Dinitrotoluene, total	2813	456	ELN-0801C	1	0.035	ug/l	0.005	0.05
2,6-Dinitrotoluene	2813	457	ELN-0801E	1	0.017	ug/l	0.005	0.05
Dinitrotoluene, total	2813	457	ELN-0801E	1	0.039	ug/l	0.005	0.05
2,4-Dinitrotoluene	2813	459	ELN-0802C	1	0.018	ug/l	0.005	0.05
Dinitrotoluene, total	2813	459	ELN-0802C	1	0.018	ug/l	0.005	0.05
2,4-Dinitrotoluene	2813	467	ELN-1003A	1	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	2813	467	ELN-1003A	1	0.03	ug/l	0.005	0.05
Dinitrotoluene, total	2813	468	ELN-1003B	1	0.044	ug/l	0.005	0.05
Dinitrotoluene, total	2813	468	ELN-1003B	2	0.043	ug/l	0.005	0.05
Dinitrotoluene, total	2813	469	ELN-1003C	1	0.016	ug/l	0.005	0.05

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

November 2013

License No: 2813

ALL HITS REPORT

Report Date: 1/30/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
2,6-Dinitrotoluene	220	ELM-8907	11/12/2013	1	0.016	0.014	0.042	ug/l	0.005	0.05
Dinitrotoluene, total	220	ELM-8907	11/12/2013	1	1.32	0.056	0.168	ug/l	0.005	0.05
2,3-Dinitrotoluene	220	ELM-8907	11/12/2013	1	0.356	0.014	0.042	ug/l		
3,4-Dinitrotoluene	220	ELM-8907	11/12/2013	1	0.856	0.056	0.168	ug/l		
3,5-Dinitrotoluene	220	ELM-8907	11/12/2013	1	0.088	0.014	0.042	ug/l		
1,1,1-Trichloroethane	220	ELM-8907	11/12/2013	1	0.25	0.1	0.5	ug/l	40	200
2,6-Dinitrotoluene	221	ELM-8908	11/12/2013	2	0.034	0.014	0.042	ug/l	0.005	0.05
Dinitrotoluene, total	221	ELM-8908	11/12/2013	2	4.87	0.14	0.42	ug/l	0.005	0.05
3,5-Dinitrotoluene	221	ELM-8908	11/12/2013	1	0.176	0.014	0.042	ug/l		
3,5-Dinitrotoluene	221	ELM-8908	11/12/2013	2	0.165	0.014	0.042	ug/l		
3,4-Dinitrotoluene	221	ELM-8908	11/12/2013	2	3.21	0.14	0.42	ug/l		
3,4-Dinitrotoluene	221	ELM-8908	11/12/2013	1	3.41	0.14	0.42	ug/l		
2,3-Dinitrotoluene	221	ELM-8908	11/12/2013	2	1.46	0.14	0.42	ug/l		
2,6-Dinitrotoluene	221	ELM-8908	11/12/2013	1	0.036	0.014	0.042	ug/l	0.005	0.05
Dinitrotoluene, total	221	ELM-8908	11/12/2013	1	5.15	0.14	0.42	ug/l	0.005	0.05
1,1,1-Trichloroethane	221	ELM-8908	11/12/2013	1	0.11	0.1	0.5	ug/l	40	200
1,1,1-Trichloroethane	221	ELM-8908	11/12/2013	2	0.12	0.1	0.5	ug/l	40	200
2,3-Dinitrotoluene	221	ELM-8908	11/12/2013	1	1.53	0.14	0.42	ug/l		
Dinitrotoluene, total	455	ELN-0801B	11/12/2013	1	0.026	0.014	0.042	ug/l	0.005	0.05
3,4-Dinitrotoluene	455	ELN-0801B	11/12/2013	1	0.026	0.014	0.042	ug/l		
3,4-Dinitrotoluene	456	ELN-0801C	11/12/2013	1	0.035	0.014	0.042	ug/l		
Dinitrotoluene, total	456	ELN-0801C	11/12/2013	1	0.035	0.014	0.042	ug/l	0.005	0.05
2,6-Dinitrotoluene	457	ELN-0801E	11/12/2013	1	0.017	0.014	0.042	ug/l	0.005	0.05
3,4-Dinitrotoluene	457	ELN-0801E	11/12/2013	1	0.022	0.014	0.042	ug/l		
Dinitrotoluene, total	457	ELN-0801E	11/12/2013	1	0.039	0.014	0.042	ug/l	0.005	0.05
1,2,4-Trichlorobenzene	458	ELN-0802A	11/21/2013	1	0.12	0.1	0.5	ug/l	14	70
Dinitrotoluene, total	459	ELN-0802C	11/21/2013	1	0.018	0.014	0.042	ug/l	0.005	0.05
2,4-Dinitrotoluene	459	ELN-0802C	11/21/2013	1	0.018	0.014	0.042	ug/l	0.005	0.05
1,1,1-Trichloroethane	460	ELN-1001B	11/12/2013	1	0.16	0.1	0.5	ug/l	40	200
1,1,1-Trichloroethane	461	ELN-1001C	11/12/2013	1	0.13	0.1	0.5	ug/l	40	200
2,4-Dinitrotoluene	467	ELN-1003A	11/13/2013	1	0.03	0.014	0.042	ug/l	0.005	0.05
Dinitrotoluene, total	467	ELN-1003A	11/13/2013	1	0.03	0.014	0.042	ug/l	0.005	0.05
3,4-Dinitrotoluene	468	ELN-1003B	11/13/2013	2	0.043	0.014	0.042	ug/l		
3,4-Dinitrotoluene	468	ELN-1003B	11/13/2013	1	0.044	0.014	0.042	ug/l		
Dinitrotoluene, total	468	ELN-1003B	11/13/2013	2	0.043	0.014	0.042	ug/l	0.005	0.05
Dinitrotoluene, total	468	ELN-1003B	11/13/2013	1	0.044	0.014	0.042	ug/l	0.005	0.05
Dinitrotoluene, total	469	ELN-1003C	11/13/2013	1	0.016	0.014	0.042	ug/l	0.005	0.05
3,4-Dinitrotoluene	469	ELN-1003C	11/13/2013	1	0.016	0.014	0.042	ug/l		

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Instructions:

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Badger Technical Services, LLC - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel L. Janssen

Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Deterrent Burning Grounds	03037	157065260	11/21/13

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

November 2013

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Clair E. Ruenger

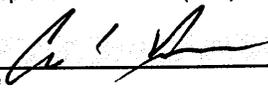
Environmental Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature 

Date 3 Feb 14

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Found uploading problems on _____ Initials _____

Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other _____

Case Narrative
Groundwater Monitoring
License Number 3037
Deterrent Burning Grounds
November 2013
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities.

2,6-Dinitrotoluene (DNT) exceeded the Enforcement Standard (ES) in DBM-8201 (301). Total DNT exceeded the ES in DBM-8201 (301) and DBM-8202 (302).

2,4-DNT exceeded the Preventive Action Limit (PAL) in DBM-8201 (301) and DBM-8202 (302). 2,6-DNT exceeded the PAL in DBM-8202 (302).

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 8260C.

Base neutral acids (BNAs) analysis was performed by BTS using method SW 846 8270D.

DNT degradation analysis was performed by BTS using method SW 846 8270C.

DNT analysis was also performed by BTS using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2013

QUARTERLY GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 1/30/2014

Parameter Name	Lic No.	Well No.	Well Name	Dup	Result	Units	PAL	ES
2,4-Dinitrotoluene	3037	301	DBM-8201	1	0.025	ug/l	0.005	0.05
2,6-Dinitrotoluene	3037	301	DBM-8201	1	0.089	ug/l	0.005	0.05
Dinitrotoluene, total	3037	301	DBM-8201	1	6.83	ug/l	0.005	0.05
Dinitrotoluene, total	3037	301	DBM-8201	1	4.2	ug/l	0.005	0.05
2,4-Dinitrotoluene	3037	302	DBM-8202	1	0.022	ug/l	0.005	0.05
2,6-Dinitrotoluene	3037	302	DBM-8202	1	0.019	ug/l	0.005	0.05
Dinitrotoluene, total	3037	302	DBM-8202	1	0.489	ug/l	0.005	0.05

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

November 2013

ALL HITS REPORT

License No: 3037

Report Date: 1/30/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Dinitrotoluene, total	301	DBM-8201	11/21/2013	1	6.83	0.28	0.84	ug/l	0.005	0.05
2,4-Dinitrotoluene	301	DBM-8201	11/21/2013	1	0.025	0.014	0.042	ug/l	0.005	0.05
2,6-Dinitrotoluene	301	DBM-8201	11/21/2013	1	0.089	0.014	0.042	ug/l	0.005	0.05
2,3-Dinitrotoluene	301	DBM-8201	11/21/2013	1	1.1	0.5	2	ug/l		
2,3-Dinitrotoluene	301	DBM-8201	11/21/2013	1	1.49	0.14	0.42	ug/l		
3,4-Dinitrotoluene	301	DBM-8201	11/21/2013	1	4.48	0.28	0.84	ug/l		
3,4-Dinitrotoluene	301	DBM-8201	11/21/2013	1	3.1	1.3	5	ug/l		
3,5-Dinitrotoluene	301	DBM-8201	11/21/2013	1	0.752	0.14	0.42	ug/l		
1,1,1-Trichloroethane	301	DBM-8201	11/21/2013	1	0.2	0.1	0.5	ug/l	40	200
Dinitrotoluene, total	301	DBM-8201	11/21/2013	1	4.2	1.3	5	ug/l	0.005	0.05
2-Nitroaniline	301	DBM-8201	11/21/2013	1	0.6	0.5	2	ug/l		
Dinitrotoluene, total	302	DBM-8202	11/21/2013	1	0.489	0.014	0.042	ug/l	0.005	0.05
1,1,1-Trichloroethane	302	DBM-8202	11/21/2013	1	1.82	0.1	0.5	ug/l	40	200
1,2-Dichlorobenzene	302	DBM-8202	11/21/2013	1	0.13	0.1	0.5	ug/l	60	600
2,4-Dinitrotoluene	302	DBM-8202	11/21/2013	1	0.022	0.014	0.042	ug/l	0.005	0.05
2,6-Dinitrotoluene	302	DBM-8202	11/21/2013	1	0.019	0.014	0.042	ug/l	0.005	0.05
2,3-Dinitrotoluene	302	DBM-8202	11/21/2013	1	0.092	0.014	0.042	ug/l		
3,4-Dinitrotoluene	302	DBM-8202	11/21/2013	1	0.288	0.014	0.042	ug/l		
3,5-Dinitrotoluene	302	DBM-8202	11/21/2013	1	0.068	0.014	0.042	ug/l		

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to: GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Badger Technical Services, LLC - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel L. Janssen Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Southeast Boundary	03038	157005530	11/12/13

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

November 2013

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Clair E. Ruenger

Environmental Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Date

3 Feb 14

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

- Found uploading problems on _____ Initials _____
- Notified contact of problems on _____ Uploaded data successfully on _____
- EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other _____

Case Narrative
Groundwater Monitoring
License Number 3038
Southeast Boundary
November 2013
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities.

Only one well, S1121 (755), was sampled during this sampling period. No compounds were detected above a Preventive Action Limit (PAL).

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 8260C.

Dinitrotoluene (DNT) analysis was performed by BTS using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to: GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Badger Technical Services, LLC - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel L. Janssen

Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Off-Site Plume Wells	03485 & 03493	157005530	11/18 - 11/26/13

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

November 2013

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Clair E. Ruenger

Environmental Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature

Date

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

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Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other _____

Case Narrative
Groundwater Monitoring
License Number 3485 & 3493
Off-Site Plume Wells
November 2013
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities.

2,6-Dinitrotoluene (DNT) and total DNT exceeded the Enforcement Standard (ES) in PBN-9101C (561).

Total DNT exceeded the Preventive Action Limit (PAL) in SWN-0501C (238). 2,4-DNT exceeded the PAL in SWN-0501C (238) and PBN-9101C (561).

Carbon tetrachloride exceeded the ES in PBN-9101C (561), SWN-9103B (571), SWN-9103C (572), SWN-9103D (573), and PBM-9001D (981) and the PAL in SWN-0501C (238), SWN-9103E (574), SWN-9104C (575), and SWN-9104D (576).

Chloroform exceeded the PAL in eight wells.

Trichloroethylene exceeded the ES in PBN-9101C (561) and PBM-9001D (981) and the PAL in SWN-9103B (571) and SWN-9103D (573).

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 8260C.

Base neutral acids (BNAs) analysis was performed by BTS using method SW 846 8270D.

DNT analysis was performed by BTS using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2013

QUARTERLY GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 1/30/2014

Parameter Name	Lic No.	Well No.	Well Name	Dup	Result	Units	PAL	ES
Carbon tetrachloride	3485	981	PBM-9001D	1	21	ug/l	0.5	5
Chloroform	3485	981	PBM-9001D	1	2.99	ug/l	0.6	6
Trichloroethene	3485	981	PBM-9001D	1	5.42	ug/l	0.5	5

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

November 2013

ALL HITS REPORT

License No: 3485

Report Date: 1/30/2014

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Trichloroethene	981	PBM-9001D	11/18/2013	1	5.42	0.1	0.5	ug/l	0.5	5
Chloroform	981	PBM-9001D	11/18/2013	1	2.99	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	981	PBM-9001D	11/18/2013	1	21	0.1	0.5	ug/l	0.5	5
Chloroform	982	PBM-9002D	11/25/2013	1	0.13	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	982	PBM-9002D	11/25/2013	1	0.1	0.1	0.5	ug/l	0.5	5
1,2,4-Trichlorobenzene	983	PBM-9003D	11/25/2013	1	0.1	0.1	0.5	ug/l	14	70

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2013

QUARTERLY GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 1/30/2014

Parameter Name	Lic No.	Well No.	Well Name	Dup	Result	Units	PAL	ES
Carbon tetrachloride	3493	238	SWN-0501C	1	0.51	ug/l	0.5	5
Chloroform	3493	238	SWN-0501C	1	1.38	ug/l	0.6	6
2,4-Dinitrotoluene	3493	238	SWN-0501C	1	0.018	ug/l	0.005	0.05
Dinitrotoluene, total	3493	238	SWN-0501C	1	0.018	ug/l	0.005	0.05
Carbon tetrachloride	3493	561	PBN-9101C	1	42	ug/l	0.5	5
Chloroform	3493	561	PBN-9101C	1	5.87	ug/l	0.6	6
2,4-Dinitrotoluene	3493	561	PBN-9101C	1	0.035	ug/l	0.005	0.05
2,6-Dinitrotoluene	3493	561	PBN-9101C	1	0.067	ug/l	0.005	0.05
Trichloroethene	3493	561	PBN-9101C	1	12.9	ug/l	0.5	5
Dinitrotoluene, total	3493	561	PBN-9101C	1	0.102	ug/l	0.005	0.05
Carbon tetrachloride	3493	571	SWN-9103B	1	11.2	ug/l	0.5	5
Chloroform	3493	571	SWN-9103B	1	1.2	ug/l	0.6	6
Trichloroethene	3493	571	SWN-9103B	1	0.54	ug/l	0.5	5
Carbon tetrachloride	3493	571	SWN-9103B	2	10.9	ug/l	0.5	5
Chloroform	3493	571	SWN-9103B	2	1.15	ug/l	0.6	6
Trichloroethene	3493	571	SWN-9103B	2	0.54	ug/l	0.5	5
Carbon tetrachloride	3493	572	SWN-9103C	1	22.2	ug/l	0.5	5
Chloroform	3493	572	SWN-9103C	1	2.64	ug/l	0.6	6
Carbon tetrachloride	3493	573	SWN-9103D	1	11.4	ug/l	0.5	5
Chloroform	3493	573	SWN-9103D	1	2.48	ug/l	0.6	6
Trichloroethene	3493	573	SWN-9103D	1	2.47	ug/l	0.5	5
Carbon tetrachloride	3493	574	SWN-9103E	1	0.56	ug/l	0.5	5
Carbon tetrachloride	3493	575	SWN-9104C	1	1.09	ug/l	0.5	5
Carbon tetrachloride	3493	576	SWN-9104D	1	1.21	ug/l	0.5	5
Chloroform	3493	576	SWN-9104D	1	1.01	ug/l	0.6	6
Chloroform	3493	578	SWN-9105C	1	0.88	ug/l	0.6	6

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

November 2013

ALL HITS REPORT

Report Date: 1/30/2014

License No: 3493

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Chloroform	237	SWN-0501B	11/20/2013	1	0.19	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	237	SWN-0501B	11/20/2013	1	0.19	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	238	SWN-0501C	11/20/2013	1	0.51	0.1	0.5	ug/l	0.5	5
Chloroform	238	SWN-0501C	11/20/2013	1	1.38	0.1	0.5	ug/l	0.6	6
2,4-Dinitrotoluene	238	SWN-0501C	11/20/2013	1	0.018	0.014	0.042	ug/l	0.005	0.05
Dinitrotoluene, total	238	SWN-0501C	11/20/2013	1	0.018	0.014	0.042	ug/l	0.005	0.05
Ethyl Ether	239	SWN-0501D	11/20/2013	1	35.7	0.1	0.5	ug/l	100	1000
Ethyl Ether	240	SWN-0501E	11/20/2013	1	7.15	0.1	0.5	ug/l	100	1000
Chloroform	241	SWN-0502B	11/20/2013	1	0.49	0.1	0.5	ug/l	0.6	6
Chloroform	241	SWN-0502B	11/20/2013	2	0.51	0.1	0.5	ug/l	0.6	6
Chloroform	242	SWN-0502C	11/20/2013	1	0.21	0.1	0.5	ug/l	0.6	6
3 & 4-Methylphenol	243	SWN-0502D	11/20/2013	1	2.1	1.3	5	ug/l		
Chloroform	246	SWN-0503C	11/20/2013	1	0.51	0.1	0.5	ug/l	0.6	6
Ethyl Ether	247	SWN-0503D	11/20/2013	1	0.22	0.1	0.5	ug/l	100	1000
Ethyl Ether	248	SWN-0503E	11/20/2013	1	3.69	0.1	0.5	ug/l	100	1000
Carbon tetrachloride	561	PBN-9101C	11/18/2013	1	42	0.1	0.5	ug/l	0.5	5
Chloroform	561	PBN-9101C	11/18/2013	1	5.87	0.1	0.5	ug/l	0.6	6
1,1,1-Trichloroethane	561	PBN-9101C	11/18/2013	1	0.25	0.1	0.5	ug/l	40	200
2,4-Dinitrotoluene	561	PBN-9101C	11/18/2013	1	0.035	0.014	0.042	ug/l	0.005	0.05
2,6-Dinitrotoluene	561	PBN-9101C	11/18/2013	1	0.067	0.014	0.042	ug/l	0.005	0.05
Trichloroethene	561	PBN-9101C	11/18/2013	1	12.9	0.1	0.5	ug/l	0.5	5
Dinitrotoluene, total	561	PBN-9101C	11/18/2013	1	0.102	0.014	0.042	ug/l	0.005	0.05
Chloroform	563	PBN-9102C	11/25/2013	1	0.11	0.1	0.5	ug/l	0.6	6
Chloroform	563	PBN-9102C	11/25/2013	2	0.1	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	571	SWN-9103B	11/18/2013	2	10.9	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	571	SWN-9103B	11/18/2013	1	11.2	0.1	0.5	ug/l	0.5	5
Chloroform	571	SWN-9103B	11/18/2013	1	1.2	0.1	0.5	ug/l	0.6	6
Chloroform	571	SWN-9103B	11/18/2013	2	1.15	0.1	0.5	ug/l	0.6	6
Trichloroethene	571	SWN-9103B	11/18/2013	2	0.54	0.1	0.5	ug/l	0.5	5
Trichloroethene	571	SWN-9103B	11/18/2013	1	0.54	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	572	SWN-9103C	11/18/2013	1	22.2	0.1	0.5	ug/l	0.5	5
Chloroform	572	SWN-9103C	11/18/2013	1	2.64	0.1	0.5	ug/l	0.6	6
Trichloroethene	572	SWN-9103C	11/18/2013	1	0.34	0.1	0.5	ug/l	0.5	5
Chloroform	573	SWN-9103D	11/18/2013	1	2.48	0.1	0.5	ug/l	0.6	6
Trichloroethene	573	SWN-9103D	11/18/2013	1	2.47	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	573	SWN-9103D	11/18/2013	1	11.4	0.1	0.5	ug/l	0.5	5
Chloroform	574	SWN-9103E	11/18/2013	1	0.13	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	574	SWN-9103E	11/18/2013	1	0.56	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	575	SWN-9104C	11/18/2013	1	1.09	0.1	0.5	ug/l	0.5	5
Chloroform	575	SWN-9104C	11/18/2013	1	0.44	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	576	SWN-9104D	11/18/2013	1	1.21	0.1	0.5	ug/l	0.5	5
Chloroform	576	SWN-9104D	11/18/2013	1	1.01	0.1	0.5	ug/l	0.6	6
Chloroform	577	SWN-9105B	11/25/2013	1	0.39	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	578	SWN-9105C	11/26/2013	1	0.1	0.1	0.5	ug/l	0.5	5
Chloroform	578	SWN-9105C	11/26/2013	1	0.88	0.1	0.5	ug/l	0.6	6
Chloroform	579	SWN-9105D	11/26/2013	1	0.48	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	579	SWN-9105D	11/26/2013	1	0.15	0.1	0.5	ug/l	0.5	5

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to: GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Badger Technical Services, LLC - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel L. Janssen Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Settling Ponds	03499	157005530	11/14 - 11/19/13

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

November 2013

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Clair E. Ruenger

Environmental Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature 

Date

3 Feb 14

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

- Found uploading problems on _____ Initials _____
- Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other

Case Narrative
Groundwater Monitoring
License Number 3499
Settling Ponds
November 2013
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities. Contamination from the Propellant Burning Ground largely impacts groundwater quality in wells associated with this license.

2,6-Dinitrotoluene (DNT) and total DNT exceeded the Enforcement Standard (ES) in SPN-8904C (721). 2,4-DNT and total DNT exceeded the Preventive Action Limit (PAL) in S1106 (705).

Carbon tetrachloride exceeded the ES in S1103 (702), SPN-8904B (720), and SPN-8904C (721) and the PAL in SPN-0402C (730).

Chloroform exceeded the PAL in four wells.

Trichloroethylene exceeded the PAL in SPN-8904C (721).

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 8260C.

Base neutral acids (BNAs) analysis was performed by BTS using method SW 846 8270D.

DNT analysis was performed by BTS using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2013

QUARTERLY GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 1/30/2014

Parameter Name	Lic No.	Well No.	Well Name	Dup	Result	Units	PAL	ES
Carbon tetrachloride	3499	702	S1103	1	5.91	ug/l	0.5	5
Chloroform	3499	702	S1103	1	0.61	ug/l	0.6	6
2,4-Dinitrotoluene	3499	705	S1106	1	0.025	ug/l	0.005	0.05
Dinitrotoluene, total	3499	705	S1106	1	0.025	ug/l	0.005	0.05
2,4-Dinitrotoluene	3499	705	S1106	2	0.025	ug/l	0.005	0.05
Dinitrotoluene, total	3499	705	S1106	2	0.025	ug/l	0.005	0.05
Carbon tetrachloride	3499	720	SPN-8904B	1	5.26	ug/l	0.5	5
Carbon tetrachloride	3499	721	SPN-8904C	1	18.2	ug/l	0.5	5
Chloroform	3499	721	SPN-8904C	1	1.91	ug/l	0.6	6
2,6-Dinitrotoluene	3499	721	SPN-8904C	1	0.103	ug/l	0.005	0.05
Trichloroethene	3499	721	SPN-8904C	1	1.21	ug/l	0.5	5
Dinitrotoluene, total	3499	721	SPN-8904C	1	0.103	ug/l	0.005	0.05
Carbon tetrachloride	3499	730	SPN-0402C	1	0.67	ug/l	0.5	5
Chloroform	3499	732	SPN-0403C	1	1.11	ug/l	0.6	6
Chloroform	3499	732	SPN-0403C	2	1.15	ug/l	0.6	6
Chloroform	3499	738	SPN-0406C	1	1.11	ug/l	0.6	6

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

November 2013

ALL HITS REPORT

Report Date: 1/30/2014

License No: 3499

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Chloroform	702	S1103	11/14/2013	1	0.61	0.1	0.5	ug/l	0.6	6
1,1,1-Trichloroethane	702	S1103	11/14/2013	1	0.52	0.1	0.5	ug/l	40	200
Carbon tetrachloride	702	S1103	11/14/2013	1	5.91	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	705	S1106	11/14/2013	2	0.27	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	705	S1106	11/14/2013	1	0.26	0.1	0.5	ug/l	0.5	5
Chloroform	705	S1106	11/14/2013	1	0.15	0.1	0.5	ug/l	0.6	6
Chloroform	705	S1106	11/14/2013	2	0.14	0.1	0.5	ug/l	0.6	6
2,4-Dinitrotoluene	705	S1106	11/14/2013	1	0.025	0.014	0.042	ug/l	0.005	0.05
2,4-Dinitrotoluene	705	S1106	11/14/2013	2	0.025	0.014	0.042	ug/l	0.005	0.05
Dinitrotoluene, total	705	S1106	11/14/2013	2	0.025	0.014	0.042	ug/l	0.005	0.05
Dinitrotoluene, total	705	S1106	11/14/2013	1	0.025	0.014	0.042	ug/l	0.005	0.05
1,1,1-Trichloroethane	716	SPN-8902B	11/14/2013	1	0.14	0.1	0.5	ug/l	40	200
1,1,1-Trichloroethane	717	SPN-8902C	11/14/2013	1	0.14	0.1	0.5	ug/l	40	200
Trichloroethene	720	SPN-8904B	11/14/2013	1	0.32	0.1	0.5	ug/l	0.5	5
Carbon tetrachloride	720	SPN-8904B	11/14/2013	1	5.26	0.1	0.5	ug/l	0.5	5
Chloroform	720	SPN-8904B	11/14/2013	1	0.27	0.1	0.5	ug/l	0.6	6
1,1,1-Trichloroethane	720	SPN-8904B	11/14/2013	1	0.2	0.1	0.5	ug/l	40	200
Carbon tetrachloride	721	SPN-8904C	11/14/2013	1	18.2	0.1	0.5	ug/l	0.5	5
Chloroform	721	SPN-8904C	11/14/2013	1	1.91	0.1	0.5	ug/l	0.6	6
2,6-Dinitrotoluene	721	SPN-8904C	11/14/2013	1	0.103	0.014	0.042	ug/l	0.005	0.05
Trichloroethene	721	SPN-8904C	11/14/2013	1	1.21	0.1	0.5	ug/l	0.5	5
Dinitrotoluene, total	721	SPN-8904C	11/14/2013	1	0.103	0.014	0.042	ug/l	0.005	0.05
Carbon tetrachloride	730	SPN-0402C	11/19/2013	1	0.67	0.1	0.5	ug/l	0.5	5
Chloroform	730	SPN-0402C	11/19/2013	1	0.38	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	732	SPN-0403C	11/19/2013	1	0.47	0.1	0.5	ug/l	0.5	5
Chloroform	732	SPN-0403C	11/19/2013	2	1.15	0.1	0.5	ug/l	0.6	6
Chloroform	732	SPN-0403C	11/19/2013	1	1.11	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	732	SPN-0403C	11/19/2013	2	0.46	0.1	0.5	ug/l	0.5	5
Chloroform	737	SPN-0406B	11/19/2013	1	0.42	0.1	0.5	ug/l	0.6	6
Chloroform	738	SPN-0406C	11/19/2013	1	1.11	0.1	0.5	ug/l	0.6	6
Carbon tetrachloride	738	SPN-0406C	11/19/2013	1	0.1	0.1	0.5	ug/l	0.5	5

Notice: Personally identifiable information collected will be used for program administration and enforcement purposes. The Department may also provide this information to requesters as required under Wisconsin's Open Records law, ss. 19.31 to 19.39, Wis. Stats. When submitting monitoring data, the owner or operator of the facility, practice or activity is required to notify the Department in writing that a groundwater standard or an explosive gas level has been attained or exceeded, as specified in ss. NR 140.24(1)(a); NR 140.26(1)(a); NR 507.30NR 635.14(9)(a); NR 635.18(20) and NR 507.30, Wis. Adm. Code. Failure to report may result in fines, forfeitures or other penalties resulting from enforcement under ss. 289.97, 291.97 or 299.95, Wis. Stats.

Instructions:

- Prepare one form for each license or monitoring ID.
- Please type or print legibly.
- Attach a notification of any values that attain or exceed groundwater standards (that is, preventive action limits, enforcement standards or alternative concentration limits). The notification must include a preliminary analysis of the cause and significance of each value.
- Attach a notification of any gas values that attain or exceed explosive gas levels.
- Send the original signed form, any notification, and Electronic Data Deliverable [EDD] to:

GEMS Data Submittal Contact - WA/5
Bureau of Waste Management
Wisconsin Department of Natural Resources
101 South Webster Street
Madison WI 53707-7921

Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Badger Technical Services, LLC - Badger Army Ammunition Plant

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Joel L. Janssen

Phone: (608) 643-3361

E-mail: joel.janssen@specpro-inc.com

Facility name:	License # / Monitoring ID	Facility ID [FID]	Actual sampling dates (e.g., July 2-6, 2003)
BAAAP - Southeast Area	04330	157005530	11/26/13

The enclosed results are for sampling required in the month(s) of: (e.g., June 2003)

November 2013

Type of Data Submitted (Check all that apply)

- | | |
|---|--|
| <input checked="" type="checkbox"/> Groundwater monitoring data from monitoring wells | <input type="checkbox"/> Gas monitoring data |
| <input type="checkbox"/> Groundwater monitoring data from private water supply wells | <input type="checkbox"/> Air monitoring data |
| <input type="checkbox"/> Leachate monitoring data | <input type="checkbox"/> Other (specify) _____ |

Notification attached?

- No. No groundwater standards or explosive gas limits were exceeded.
- Yes, a notification of values exceeding a groundwater standard is attached. It includes a list of monitoring points, dates, sample values, groundwater standard and preliminary analysis of the cause and significance of any concentration.
- Yes, a notification of values exceeding an explosive gas limit is attached. It includes the monitoring points, dates, sample values and explosive gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards.

Clair E. Ruenger

Environmental Manager

(608) 643-3361

Facility Representative Name (Print)

Title

(Area Code) Telephone No.

Signature 

Date

3 Feb 14

FOR DNR USE ONLY. Check action taken, and record date and your initials. Describe on back side if necessary.

- Found uploading problems on _____ Initials _____
- Notified contact of problems on _____ Uploaded data successfully on _____

EDD format(s): Diskette CD (initial submittal and follow-up) E-mail (follow-up only) Other

Case Narrative
Groundwater Monitoring
License Number 4330
Southeast Area
November 2013
Badger Army Ammunition Plant

Groundwater is currently being monitored by the facility because of past production activities.

Total dinitrotoluene (DNT) exceeded the Enforcement Standard (ES) in SEN-0501A (580). This was the first time DNT has exceeded the ES in SEN-0501A.

2,6-DNT and total DNT exceeded the Preventive Action Limit (PAL) in SEN-0501B (581) and SEN-0503B (586).

Chloroform exceeded the PAL in SEN-0501B (581), SEN-0501D (582), and SEN-0503D (587).

Bis(2-ethylhexyl)phthalate exceeded the PAL in SEN-0502A (583). It is unknown if this parameter is present in the well or due to a laboratory contaminant.

Volatile organic compounds (VOCs) analysis was performed by Badger Technical Services, LLC (BTS) using method SW 846 8260C.

Base neutral acids (BNAs) analysis was performed by BTS using method SW 846 8270D.

DNT analysis was performed by BTS using method SW 8270D SIM. The following DNT isomers were reported: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT, and 3,5-DNT.

Badger Technical Services, LLC

Badger Army Ammunition Plant

November 2013

QUARTERLY GROUNDWATER MONITORING EXCEEDANCE REPORT

Report Date: 1/30/2014

Parameter Name	Lic No.	Well No.	Well Name	Dup	Result	Units	PAL	ES
Dinitrotoluene, total	4330	580	SEN-0501A	1	0.05	ug/l	0.005	0.05
Chloroform	4330	581	SEN-0501B	1	0.76	ug/l	0.6	6
2,6-Dinitrotoluene	4330	581	SEN-0501B	1	0.016	ug/l	0.005	0.05
Dinitrotoluene, total	4330	581	SEN-0501B	1	0.016	ug/l	0.005	0.05
Chloroform	4330	581	SEN-0501B	2	0.79	ug/l	0.6	6
2,6-Dinitrotoluene	4330	581	SEN-0501B	2	0.018	ug/l	0.005	0.05
Dinitrotoluene, total	4330	581	SEN-0501B	2	0.018	ug/l	0.005	0.05
Chloroform	4330	582	SEN-0501D	1	0.98	ug/l	0.6	6
Bis(2-ethylhexyl)phthalate	4330	583	SEN-0502A	1	0.9	ug/l	0.6	6
2,6-Dinitrotoluene	4330	586	SEN-0503B	1	0.036	ug/l	0.005	0.05
Dinitrotoluene, total	4330	586	SEN-0503B	1	0.036	ug/l	0.005	0.05
Chloroform	4330	587	SEN-0503D	1	0.64	ug/l	0.6	6

Badger Technical Services, LLC

Badger Army Ammunition Plant

Quarterly Groundwater Monitoring

November 2013

ALL HITS REPORT

Report Date: 1/30/2014

License No: 4330

Parameter Name	Well	Well Name	Date	Dup	Result	LOD	LOQ	Units	PAL	ES
Dinitrotoluene, total	580	SEN-0501A	11/26/2013	1	0.05	0.014	0.042	ug/l	0.005	0.05
2,3-Dinitrotoluene	580	SEN-0501A	11/26/2013	1	0.05	0.014	0.042	ug/l		
Dinitrotoluene, total	581	SEN-0501B	11/26/2013	1	0.016	0.014	0.042	ug/l	0.005	0.05
Carbon tetrachloride	581	SEN-0501B	11/26/2013	2	0.1	0.1	0.5	ug/l	0.5	5
Chloroform	581	SEN-0501B	11/26/2013	2	0.79	0.1	0.5	ug/l	0.6	6
Chloroform	581	SEN-0501B	11/26/2013	1	0.76	0.1	0.5	ug/l	0.6	6
2,6-Dinitrotoluene	581	SEN-0501B	11/26/2013	2	0.018	0.014	0.042	ug/l	0.005	0.05
2,6-Dinitrotoluene	581	SEN-0501B	11/26/2013	1	0.016	0.014	0.042	ug/l	0.005	0.05
Dinitrotoluene, total	581	SEN-0501B	11/26/2013	2	0.018	0.014	0.042	ug/l	0.005	0.05
Chloroform	582	SEN-0501D	11/26/2013	1	0.98	0.1	0.5	ug/l	0.6	6
1,2,4-Trichlorobenzene	583	SEN-0502A	11/26/2013	1	0.1	0.1	0.5	ug/l	14	70
Bis(2-ethylhexyl)phthalate	583	SEN-0502A	11/26/2013	1	0.9	0.5	2	ug/l	0.6	6
Chloroform	584	SEN-0502D	11/26/2013	1	0.39	0.1	0.5	ug/l	0.6	6
Chloroform	586	SEN-0503B	11/26/2013	1	0.31	0.1	0.5	ug/l	0.6	6
2,6-Dinitrotoluene	586	SEN-0503B	11/26/2013	1	0.036	0.014	0.042	ug/l	0.005	0.05
Dinitrotoluene, total	586	SEN-0503B	11/26/2013	1	0.036	0.014	0.042	ug/l	0.005	0.05
Chloroform	587	SEN-0503D	11/26/2013	1	0.64	0.1	0.5	ug/l	0.6	6