

EMES

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**ExxonMobil Environmental Services
Company**

**Monitoring Well
Abandonment Report - 2013**

Former ExxonMobil Facility #99GNC
5009 Summit Avenue
Greensboro, Guilford County,
North Carolina

Groundwater Incident #24265

November 2013



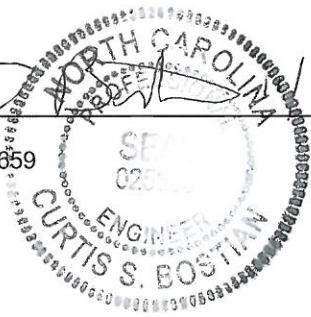
Paul Goodell, C.E.S.
Staff Environmental Scientist



Jon Farley, P.E.
Certified Project Manager I



Curtis S. Bostian, P.E.
North Carolina P.E. No. 25659
Senior Engineer



11/2013

**Monitoring Well
Abandonment Report - 2013**

Former ExxonMobil Facility
#99GNC

Prepared for:
ExxonMobil Environmental Services
Company
Ms. Jewel Cox – Project Manager
1016 W. Poplar Avenue
Suite 106 #232
Collierville, Tennessee 38017

Prepared by:
ARCADIS G&M of North Carolina, Inc.
801 Corporate Center Drive
Suite 300
Raleigh, North Carolina 27607
Tel 919.854.1282
Fax 919.854.5448
www.arcadis-us.com
Environmental

Our Ref.:
B0085851.0047

Date:
November 1, 2013

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MONITORING WELL ABANDONMENT REPORT – 2013

Former ExxonMobil Facility #99GNC
5009 Summit Avenue
Greensboro, Guilford County, North Carolina
Latitude 35° 41' 43.82"N Longitude 80° 52' 33.41"W
(Reference **Figure 1**)

Groundwater Incident #:	24265
Risk Classification:	High
Reason for Risk Classification:	26 potable wells within 1,500 feet of the site
Land Use Category:	Residential
Source of Release:	Former gasoline UST system
Date of Release Discovery:	February 2002
Estimated Quantity of Release:	Unknown
Cause of Release:	UST Leak
Responsible Party:	ExxonMobil Corporation Environmental Service Company Attn: Ms. Jewel Cox 1016 W. Poplar Avenue Suite 106 #232 Collierville, TN 38017 901.850.9009
Property Owner:	Attn: Heather Fulghum NCDOT PO Box #14996 Greensboro, NC 27415 770.428.4236

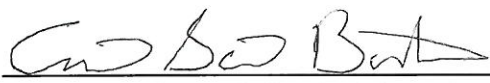
I, , a Professional Engineer for ARCADIS G&M of North Carolina, Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge. ARCADIS G&M of North Carolina, Inc. is licensed to practice geology and engineering in North Carolina. The certification numbers of the company are C-155 (geology) and C-1869 (engineering).

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Appendix C	Well Abandonment Records

1. Introduction

On October 22 – 23, 2013, on behalf of ExxonMobil Environmental Services Company (EMES), ARCADIS G&M of North Carolina (ARCADIS) subcontracted Parratt-Wolff Inc. (PW) to properly abandon the potable well located at 2710 Pindals Road and all groundwater monitoring wells associated with groundwater incident #24265 and former ExxonMobil facility #99GNC (the site), located at 5009 Summit Avenue, Greensboro, Guilford County, North Carolina. A site location map is included as **Figure 1**. The monitoring wells were abandoned as per email correspondence with the North Carolina Department of Environment and Natural Resources (NCDENR) in advance of the redevelopment of the property for use in the proposed Greensboro Loop (NCDOT Project #U-2525C). A copy of the email correspondence is provided in **Appendix A**.

2. Potable & Monitoring Well Abandonment

Eleven (11) groundwater monitoring/soil vapor extraction (SVE) wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7/SVE-2, MW-8/SVE-1, MW-9/SVE-3, MW-10, and MW-11), three (3) air sparge wells (AS-1, AS-2, and AS-3), and one potable well (2710 Pindals Road) were properly abandoned by PW, a North Carolina licensed well driller (Cert. #3544), on October 22 - 23, 2013. The groundwater monitoring/SVE wells and air sparge wells were housed in 8-inch diameter round manholes and the SVE wells were housed in 2 foot by 2 foot square vaults. The potable well at 2710 Pindals Road was housed within a 12-inch diameter above-ground circular concrete well vault. Abandonment of the monitoring/SVE wells, air sparge wells, and potable well was performed in accordance with 15A NCAC 2C Well Construction Standards as follows:

- ARCADIS personnel gauged each monitoring/SVE, air sparge, and potable well prior to abandonment. Depth to water was measured from the top of casing of each monitoring/SVE, air sparge, and potable well using an electronic oil/water interface probe accurate to 0.01 foot. Current and historical groundwater elevations are summarized in **Table 1**.
- Monitoring/SVE, air sparge, and potable wells were abandoned in-place via tremie-grout methods. The monitoring/SVE, air sparge, and potable wells were filled from the bottom up with a cement grout mixture consisting of Portland cement and powdered bentonite.
- Following tremie-grouting of the monitoring/SVE, air sparge, and potable wells, the manhole and vault voids were returned to grade using a concrete cap to ground

surface. Due to high vehicle and pedestrian traffic at the site, monitoring/SVE, air sparge, and potable well vault manhole lids were abandoned in place and secured by the concrete cap. Before, during, and after photographs of monitoring well abandonment are included in **Appendix B** as an example of the monitoring well abandonment activities.

The locations of the former monitoring/SVE and air sparge wells are illustrated in **Figure 2**. The location of the former potable well (2710 Pindals Road) and the route of the Greensboro Loop (NCDOT Project #U-2525C) are presented in **Figure 3**. The Well Abandonment Records are included in **Appendix C**.

As per the email correspondence with the NCDENR, ARCADIS respectfully recommends the completion of a Notice of Residual Petroleum (NORP) for the subject incident number. The proposed NORP will be completed and filed with the Guilford County Register of Deeds. Upon completion of the NORP requirements, ARCADIS will respectfully request No Further Action (NFA) status be granted for the subject incident number.

Tables

Table 1: Groundwater Gauging Data

Revision Date: 11/4/2013

Incident Number: 24265

Facility ID #: Former ExxonMobil Facility #99GNC

Well ID	Gauging Date	Top of Casing Elevation (ft)	Well Casing (ft btoc)	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft)	Measured Depth to Bottom (ft)	Well Diameter (inches)
MW-1	06/27/02	100.00	0-25	25-40	32.07	70.46	2.53	67.93	40.00	2"
	07/29/02				32.37	72.01	4.38	67.63	40.00	2"
	08/27/02				37.40	67.10	4.50	62.60	40.00	2"
	09/09/02				37.36	67.15	4.51	62.64	40.00	2"
	10/02/02				35.30	66.30	1.60	64.70	40.00	2"
	11/18/02				35.03	68.85	3.88	64.97	40.00	2"
	12/17/02				30.81	69.55	0.36	69.19	40.00	2"
	01/10/03				30.26	70.10	0.36	69.74	40.00	2"
	02/24/03				29.10	71.20	0.30	70.90	40.00	2"
	03/18/03				27.94	72.24	0.18	72.06	40.00	2"
	04/11/03				26.63	73.55	0.18	73.37	40.00	2"
	05/14/03				26.04	74.25	0.29	73.96	40.00	2"
	06/05/03				25.52	74.71	0.23	74.48	40.00	2"
	07/08/03				24.65	--	--	75.35	40.00	2"
	08/11/03				24.65	--	--	75.35	40.00	2"
	09/03/03				24.60	--	--	75.40	40.00	2"
	09/15/03				24.50	--	--	75.50	40.00	2"
	03/09/04				24.70	--	--	75.30	40.00	2"
	01/03/06				30.00	--	--	70.00	40.00	2"
	12/26/07				Dry	--	--	Dry	27.85	2"
	03/31/08				33.07	--	--	66.93	39.82	2"
	08/14/08				31.50	--	--	68.50	40.00	2"
	06/02/09				30.32	--	--	69.68	40.20	2"
	11/05/09				33.11	--	--	66.89	40.00	2"
	08/09/10				29.17	--	--	70.83	41.00	2"
	11/04/10				32.32	--	--	67.68	40.00	2"
	02/01/11				32.10	--	--	67.90	NM	2"
	04/26/11				31.80	--	--	68.20	38.80	2"
	10/25/11				32.19	--	--	67.81	40.10	2"
	01/18/12				33.25	--	--	66.75	NM	2"
	02/10/12				31.04	--	--	68.96	40.10	2"
	03/20/12				30.86	--	--	69.14	40.10	2"
	04/25/12				30.20	--	--	69.80	40.10	2"
05/23/12	28.00	--	--	72.00	40.10	2"				
06/26/12	28.10	--	--	71.90	40.10	2"				
07/25/12	29.13	--	--	70.87	40.10	2"				
08/29/12	32.00	--	--	68.00	40.10	2"				
09/26/12	Monitoring Well Inaccessible - Disabled Vehicle Parked over Well									
10/25/12	29.24	--	--	70.76	40.10	2"				
11/08/12	29.97	--	--	70.03	40.10	2"				
11/14/12	33.90	--	--	66.10	40.10	2"				
12/05/12	33.95	--	--	66.05	40.10	2"				
10/22/13	30.40	--	--	69.60	40.00	2"				
Monitoring Well Abandoned on October 22, 2013										
MW-1R	12/26/07	--	Unknown	Unknown	Dry	--	--	Dry	31.80	--
	03/31/08	--			Dry	--	--	Dry	39.10	--
MW-2	06/27/02	100.12	0-25	25-40	32.92	67.35	0.15	67.20	40.00	2"
	07/29/02				35.15	67.87	2.90	64.97	40.00	2"
	08/27/02				36.00	66.52	2.40	64.12	40.00	2"
	09/09/02				35.95	66.52	2.35	64.17	40.00	2"
	10/02/02				35.00	66.07	0.95	65.12	40.00	2"
	11/18/02				34.50	68.17	2.55	65.62	40.00	2"
	12/17/02				30.45	--	--	69.67	40.00	2"
	01/10/03				30.41	--	--	69.71	40.00	2"
	02/24/03				29.30	--	--	70.82	40.00	2"
	03/18/03				28.40	--	--	71.72	40.00	2"
	01/01/00				27.11	--	--	73.01	40.00	2"

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MW-2 Continued	05/14/03	100.12	0-25	25-40	26.40	--	--	73.72	40.00	2"			
	06/05/03				25.95	--	--	74.17	40.00	2"			
	07/08/03				25.25	--	--	74.87	40.00	2"			
	09/15/03				24.90	--	--	75.22	40.00	2"			
	03/09/04				25.08	--	--	75.04	40.00	2"			
	01/03/06				30.25	--	--	69.87	40.00	2"			
	12/26/07				33.85	--	--	66.27	49.20	2"			
	08/14/08				32.95	--	--	67.17	35.40	2"			
	06/02/09				32.01	--	--	68.11	34.30	2"			
	11/05/09				32.45	--	--	67.67	34.44	2"			
	08/09/10				26.71	--	--	73.41	34.69	2"			
	11/04/10				28.68	--	--	71.44	40.00	2"			
	02/01/11				Dry	--	--	--	NM	2"			
	04/26/11				32.20	--	--	67.92	34.40	2"			
	10/25/11				31.95	--	--	68.17	34.17	2"			
	01/18/12				33.00	--	--	67.12	NM	2"			
	02/10/12				31.84	--	--	68.28	34.20	2"			
	03/20/12				31.51	--	--	68.61	34.30	2"			
	04/25/12				29.65	--	--	70.47	34.30	2"			
	05/23/12				27.40	--	--	72.72	34.30	2"			
	06/26/12				30.50	--	--	69.62	34.30	2"			
	07/25/12				31.18	--	--	68.94	34.30	2"			
08/29/12	31.90	--	--	68.22	34.30	2"							
09/26/12	31.96	--	--	68.16	34.30	2"							
10/25/12	31.00	--	--	69.12	34.30	2"							
11/08/12	30.17	--	--	69.95	34.30	2"							
11/14/12	33.68	--	--	66.44	34.30	2"							
12/05/12	32.80	--	--	67.32	34.30	2"							
10/22/13	30.76	--	--	69.36	34.50	2"							
Monitoring Well Abandoned on October 22, 2013													
MW-3	10/04/02	100.12	0-20	20-45	37.30	--	--	62.82	45.00	2"			
	03/09/04				24.74	--	--	75.38	45.00	2"			
	12/26/07				35.91	--	--	64.21	44.25	2"			
	03/31/08				33.51	--	--	66.61	44.02	2"			
	08/14/08				33.56	--	--	66.56	44.18	2"			
	06/02/09				30.35	--	--	69.77	45.12	2"			
	11/05/09				35.75	--	--	64.37	44.10	2"			
	08/09/10				31.43	--	--	68.69	44.22	2"			
	11/04/10				34.73	--	--	65.39	45.00	2"			
	02/01/11				35.30	--	--	64.82	NM	2"			
	04/26/11				32.70	--	--	67.42	44.00	2"			
	10/25/11				Not Located								2"
	03/20/12				32.89	--	--	67.23	44.00	2"			
	11/08/12				34.25	--	--	65.87	44.10	2"			
10/22/13	31.93	--	--	68.19	44.00	2"							
Monitoring Well Abandoned on October 22, 2013													
MW-4	06/27/02	98.61	0-27	27-45	31.35	--	--	67.26	42.00	2"			
	03/09/04				22.55	--	--	76.06	42.00	2"			
	12/26/07				30.25	--	--	68.36	34.80	2"			
	03/31/08				33.02	--	--	65.59	40.52	2"			
	08/14/08				30.44	--	--	68.17	41.00	2"			
	06/02/09				27.86	--	--	70.75	40.21	2"			
	11/05/09				32.17	--	--	66.44	39.75	2"			
	08/09/10				28.38	--	--	70.23	40.15	2"			
	11/04/10				30.80	--	--	67.81	40.00	2"			
	02/01/11				30.00	--	--	68.61	NM	2"			
	04/26/11				29.45	--	--	69.16	40.00	2"			
	10/25/11				33.30	--	--	65.31	40.10	2"			

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Well ID	Gauging Date	Top of Casing Elevation (ft)	Well Casing (ft btoc)	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft)	Measured Depth to Bottom (ft)	Well Diameter (inches)
MW-4 Continued	03/20/12	98.61	0-27	27-45	29.78	--	--	68.83	40.00	2"
	11/08/12				32.18	--	--	66.43	40.00	2"
	10/22/13				29.47	--	--	69.14	40.10	2"
Monitoring Well Abandoned on October 22, 2013										
MW-5	06/27/02	94.32	0-20	20-40	27.35	--	--	66.97	40.00	2"
	03/09/04				19.85	--	--	74.47	40.00	2"
	12/26/07				NL					
	03/31/08				NL					
	08/14/08				26.94	--	--	67.38	39.70	2"
	06/02/09				NL					
	11/05/09				22.23	--	--	72.09	39.75	2"
	08/09/10				24.82	--	--	69.50	39.73	2"
	11/04/10				26.77	--	--	67.55	40.00	2"
	02/01/11				27.10	--	--	67.22	NM	2"
	04/26/11				24.70	--	--	69.62	39.70	2"
	10/25/11				28.62	--	--	65.70	39.75	2"
	03/20/12				24.90	--	--	69.42	39.65	2"
	11/08/12				26.25	--	--	68.07	39.65	2"
10/22/13	27.75	--	--	66.57	40.00	2"				
Monitoring Well Abandoned on October 22, 2013										
MW-6	10/04/02	101.10	0-20	20-45	35.80	--	--	65.30	45.00	2"
	03/09/04				26.00	--	--	75.10	45.00	2"
	12/26/07				34.56	--	--	66.54	44.70	2"
	03/31/08				33.28	--	--	67.82	44.46	2"
	08/14/08				32.61	--	--	68.49	44.38	2"
	06/02/09				30.58	--	--	70.52	44.65	2"
	11/05/09				34.11	--	--	66.99	44.78	2"
	08/09/10				30.43	--	--	70.67	44.68	2"
	11/04/10				33.12	--	--	67.98	45.00	2"
	02/01/11				34.00	--	--	67.10	NM	2"
	04/26/11				32.30	--	--	68.80	44.60	2"
	10/25/11				35.49	--	--	65.61	44.60	2"
	03/20/12				32.20	--	--	68.90	44.60	2"
	11/08/12				33.46	--	--	67.64	44.60	2"
10/22/13	31.62	--	--	69.48	44.60	2"				
Monitoring Well Abandoned on October 22, 2013										
MW-7/SVE-2	03/09/04	100.12	0-8	8-33	24.81	--	--	75.31	38.00	4"
	12/26/07				32.41	--	--	67.71	36.33	4"
	03/31/08				NL					
	08/14/08				30.75	--	--	69.37	31.42	4"
	06/04/09				24.64	--	--	75.48	38.60	4"
	11/05/09				32.17	--	--	67.95	33.60	4"
	08/09/10				Dry	--	--	Dry	26.31	4"
	11/04/10				26.25	--	--	73.87	38.20	4"
	02/01/11				22.90	--	--	77.22	NM	4"
	04/26/11				30.70	--	--	69.42	33.50	4"
	10/25/11				21.90	--	--	78.22	37.20	4"
	03/20/12				27.95	--	--	72.17	37.10	4"
	11/08/12				26.22	--	--	73.90	37.10	4"
	10/22/13				29.08	--	--	71.04	37.20	4"
Monitoring / Soil Vapor Extraction Well Abandoned on October 22, 2013										

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MW-8/SVE-1	03/09/04	99.55	0-8	8-33	24.15	--	--	75.40	33.00	4"			
	01/03/06				29.00	--	--	70.55	33.00	4"			
	12/26/07				33.78	--	--	65.77	49.00	4"			
	08/14/08				Dry	--	--	Dry	26.70	4"			
	06/04/09				Could Not Access								
	11/05/09				Dry	--	--	Dry	28.90	4"			
	08/09/10				Dry	--	--	Dry	28.33	4"			
	11/04/10				24.22	--	--	75.33	32.15	4"			
	02/11/11				19.05	--	--	80.50	NM	4"			
	04/26/11				30.50	--	--	69.05	31.70	4"			
	10/25/11				Dry	--	--	Dry	31.30	4"			
	01/18/12				Dry	--	--	Dry	31.15	4"			
	02/10/12				30.92	--	--	68.63	31.60	4"			
	03/20/12				29.05	--	--	70.50	31.40	4"			
	04/25/12				24.68	--	--	74.87	31.40	4"			
	05/23/12				24.72	--	--	74.83	31.40	4"			
	06/26/12				23.86	--	--	75.69	31.40	4"			
	07/25/12				29.38	--	--	70.17	31.40	4"			
	08/29/12				30.00	--	--	69.55	31.40	4"			
	09/26/12				30.01	--	--	69.54	31.40	4"			
	10/25/12				30.02	--	--	69.53	31.40	4"			
11/08/12	21.48	--	--	78.07	31.40	4"							
11/14/12	30.01	--	--	69.54	31.40	4"							
12/05/12	29.42	--	--	70.13	31.40	4"							
10/22/13	29.08	--	--	70.47	31.50	4"							
Monitoring / Soil Vapor Extraction Well Abandoned on October 22, 2013													
MW-9/SVE-3	03/09/04	100.10	0-9	9-39	24.85	--	--	75.25	39.00	4"			
	01/03/06				29.85	--	--	70.25	39.00	4"			
	03/31/08				32.77	--	--	67.33	36.70	4"			
	08/14/08				30.98	--	--	69.12	36.32	4"			
	06/04/09				29.99	--	--	70.11	36.80	4"			
	11/05/09				32.48	--	--	67.62	36.00	4"			
	08/09/10				28.78	--	--	71.32	35.65	4"			
	11/04/10				26.80	--	--	73.30	37.15	4"			
	02/01/11				22.75	--	--	77.35	NM	4"			
	04/26/11				30.70	--	--	69.40	33.90	4"			
	10/25/11				Dry	--	--	Dry	35.40	4"			
	03/20/12				30.94	--	--	69.16	34.90	4"			
	11/08/12				27.81	--	--	72.29	34.90	4"			
	10/22/13				30.05	--	--	70.05	36.40	4"			
Monitoring / Soil Vapor Extraction Well Abandoned on October 22, 2013													
MW-10	03/31/08	96.55	Unknown	Unknown	28.37	--	--	68.18	34.60	4"			
	08/14/08				28.53	--	--	68.02	34.79	2"			
	06/02/09				25.48	--	--	71.07	34.77	2"			
	11/05/09				29.52	--	--	67.03	34.80	2"			
	08/09/10				25.75	--	--	70.80	35.82	2"			
	11/04/10				28.82	--	--	67.73	34.70	2"			
	02/11/11				29.00	--	--	67.55	NM	2"			
	04/26/11				26.90	--	--	69.65	34.60	2"			
	10/25/11				30.85	--	--	65.70	34.70	2"			
	03/20/12				27.48	--	--	69.07	34.70	2"			
	11/08/12				28.35	--	--	68.20	34.70	2"			
	10/22/13				28.73	--	--	67.82	34.90	2"			
Monitoring Well Abandoned on October 22, 2013													

Table 1: Groundwater Gauging Data

Revision Date: 11/4/2013

Incident Number: 24265

Facility ID #: Former ExxonMobil Facility #99GNC

Well ID	Gauging Date	Top of Casing Elevation (ft)	Well Casing (ft btoc)	Screened Interval (ft btoc)	Depth to Water (ft btoc)	Depth to Product (ft btoc)	Product Thickness (ft)	Groundwater Elevation (ft)	Measured Depth to Bottom (ft)	Well Diameter (inches)
MW-11	11/05/09	NA	Unknown	Unknown	30.13	--	--	NA	37.20	2"
	08/09/10	NA			26.37	--	--	NA	37.00	2"
	11/04/10	NA			29.36	--	--	NA	37.00	2"
	02/01/11	NA			29.90	--	--	NA	NM	2"
	04/26/11	NA			27.50	--	--	NA	36.50	2"
	10/25/11	NA			31.49	--	--	NA	36.65	2"
	03/20/12	NA			27.88	--	--	NA	36.60	2"
	11/08/12	NA			29.03	--	--	NA	36.60	2"
	10/22/13	NA			29.76	--	--	NA	36.65	2"
Monitoring Well Abandoned on October 22, 2013										
VE-1	06/27/02	100.11	0-55	55-70	54.95	--	--	45.16	70.00	2"
	03/09/04				24.66	--	--	75.45	70.00	2"
	12/26/07				34.45	--	--	65.66	69.20	2"
VE-1 Converted to AS-1 in 2007										
AS-1	12/26/07	100.12	0-55	55-70	32.41	--	--	67.71	36.33	2"
	03/31/08				Dry	--	--	Dry	26.75	2"
	10/22/13				30.70	--	--	69.42	49.00	2"
Air Sparge Well Abandoned on October 22, 2013										
AS-2	10/22/13	NA	Unknown	Unknown	31.49	--	--	NA	70.00	2"
Air Sparge Well Abandoned on October 22, 2013										
AS-3	10/22/13	NA	Unknown	Unknown	29.94	--	--	NA	49.40	2"
Air Sparge Well Abandoned on October 22, 2013										
2710 Pindals Road	10/22/13	NA	NA	NA	28.00	--	--	NA	67.00	6"
Potable Well Abandoned on October 22 - 23, 2013										

Notes:

ft = feet

btoc = below top of well casing

-- = not detected or not applicable

NM = not measured

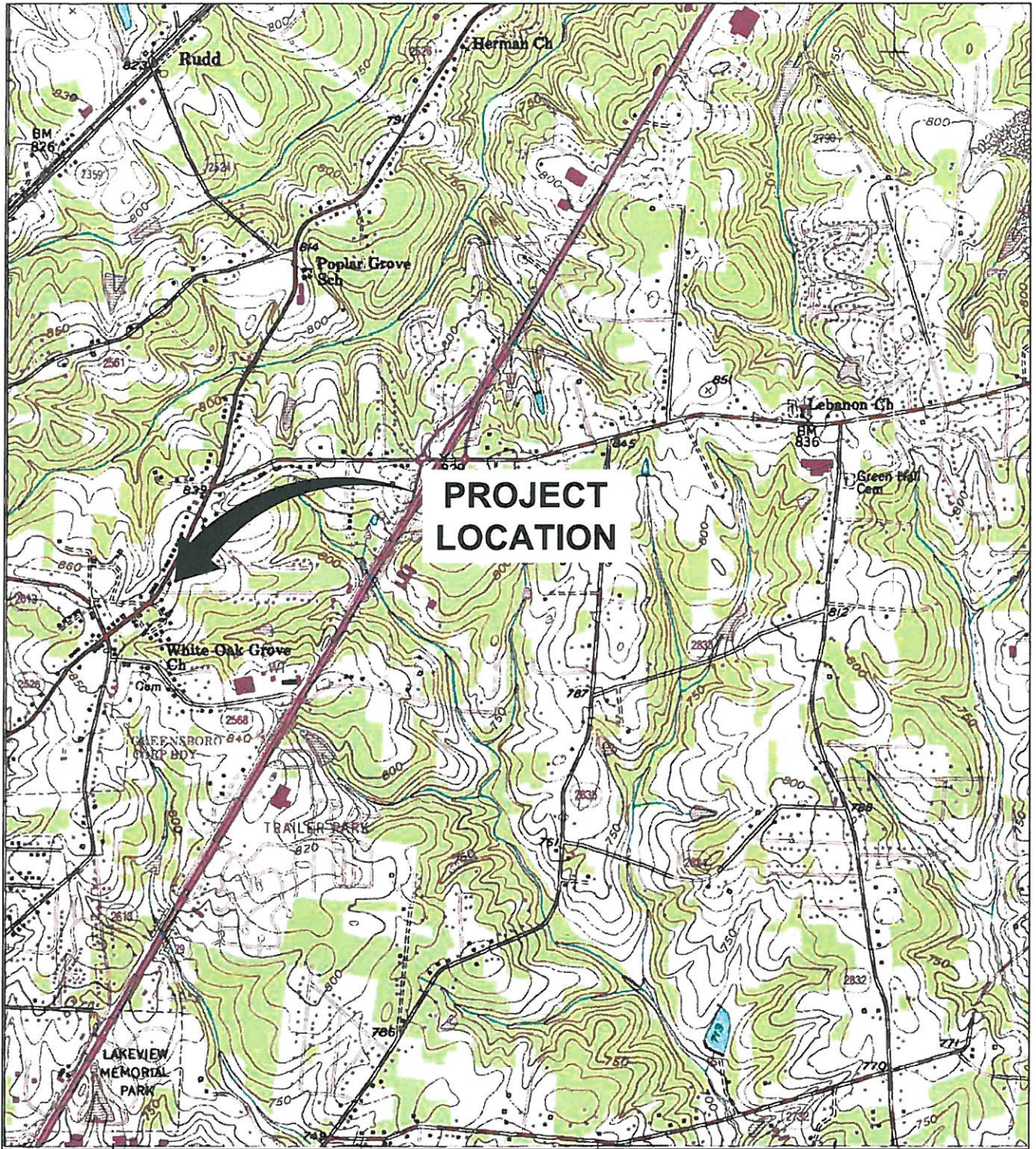
NL= not located

NG= not gauged

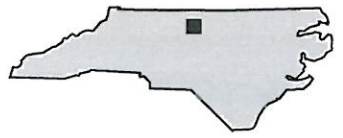
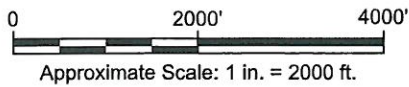
NA = not available

Figures

CITY: SYRACUSE, NY DIV/GROUP: ENV/REM-W/IM-DV DB: P. LISTER PM/TK: J. FARLEY TR: P. GOODELL LVR(OPTION): OFF=REF: G:\ENV\CAD\S\SYRACUSE\ACT\B0089551\0047\000069\DWG\66851\N01.dwg LAYOUT: 1. SAVED: 10/25/2013 3:11 PM ACADVER: 18.15 (LMS TECH) PAGES: 1. PLOTSTYLE: TABLE: PLT\FULLCTB PLOTTED: 10/25/2013 3:12 PM BY: LISTER, PAUL XREFS: IMAGES: PROJECT NAME: NC, Browns, Summit.tif NC, Charlotte West.tif



REFERENCE: BASE MAP USGS 7.5 MIN. TOPO. QUAD., BROWNS SUMMIT, NC, 1951, REVISED 1994.



NORTH CAROLINA

EXXONMOBIL ENVIRONMENTAL SERVICES
 EXXONMOBIL FACILITY #99-GNC
 5009 SUMMIT AVENUE, GREENSBORO, NC
 MONITORING WELL ABANDONMENT REPORT - 2013

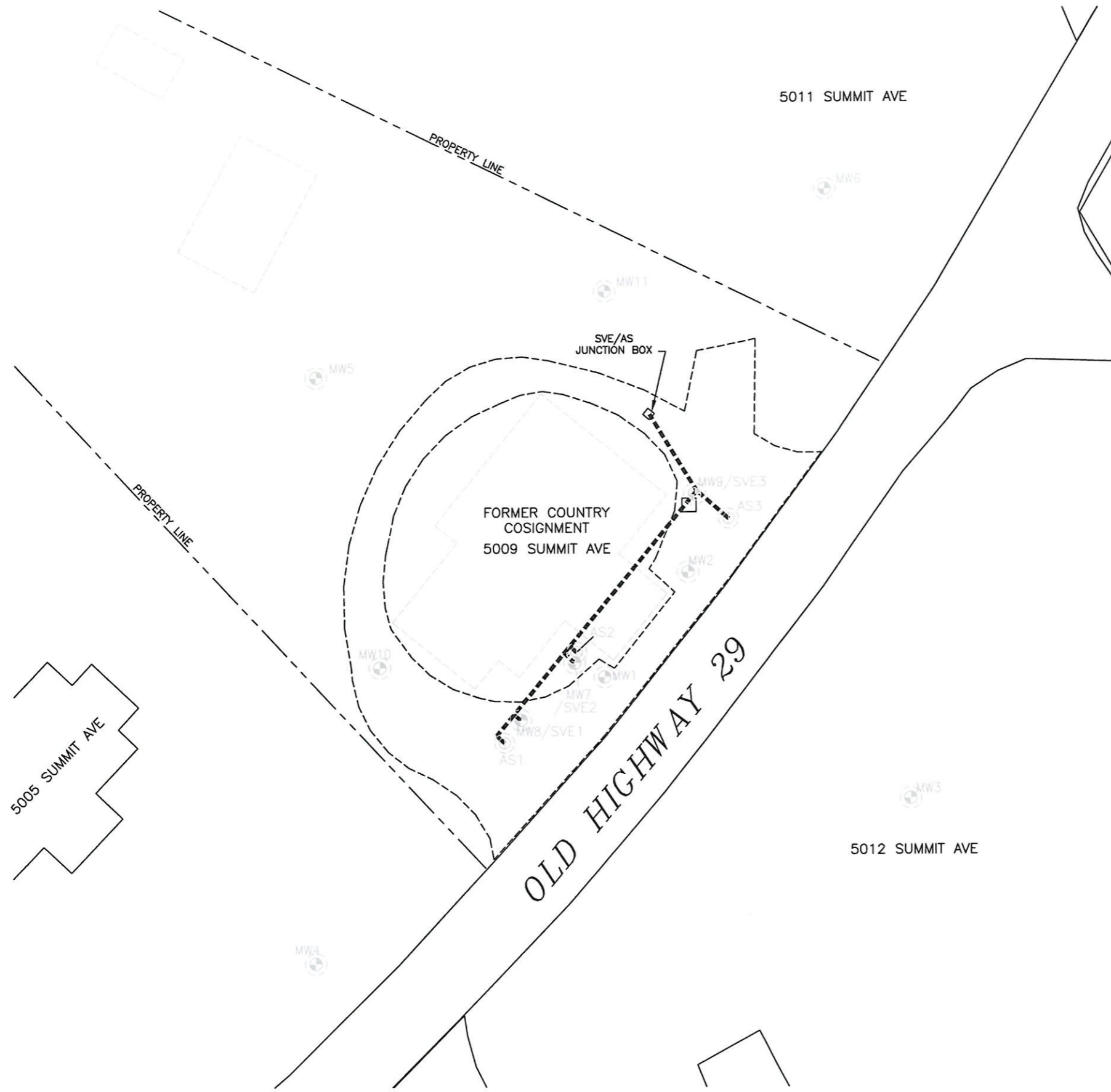
SITE LOCATION MAP







FIGURE

1

CITY: SYRACUSE, NY DIV/GROUP: ENV/REM-W/M-DV DB: P. LISTER PM/TM: J. FARLEY TR: P. GOODELL LVR:(OPTION="OFF"=REF)
 GA/ENV/CAD/SYRACUSE/ACT/B0085851/0047/00006/DWG/085851B01.dwg LAYOUT: 2 SAVED: 10/25/2013 3:35 PM ACADVER: 18.1S (LMS TECH) PAGES/SETUP: --- PLOTSTYLE/TABLE: PLTFULL.CTB PLOTTED: 10/25/2013 3:36 PM BY: LISTER, PAUL
 XREFS: IMAGES: PROJECTNAME: ---

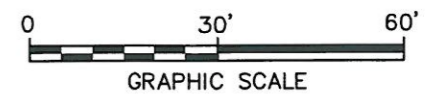



LEGEND:

-  MONITORING WELL LOCATION
-  AIR SPARGE WELL LOCATION
-  ABANDONED MONITORING WELL LOCATION
-  ABANDONED AIR SPARGE WELL LOCATION

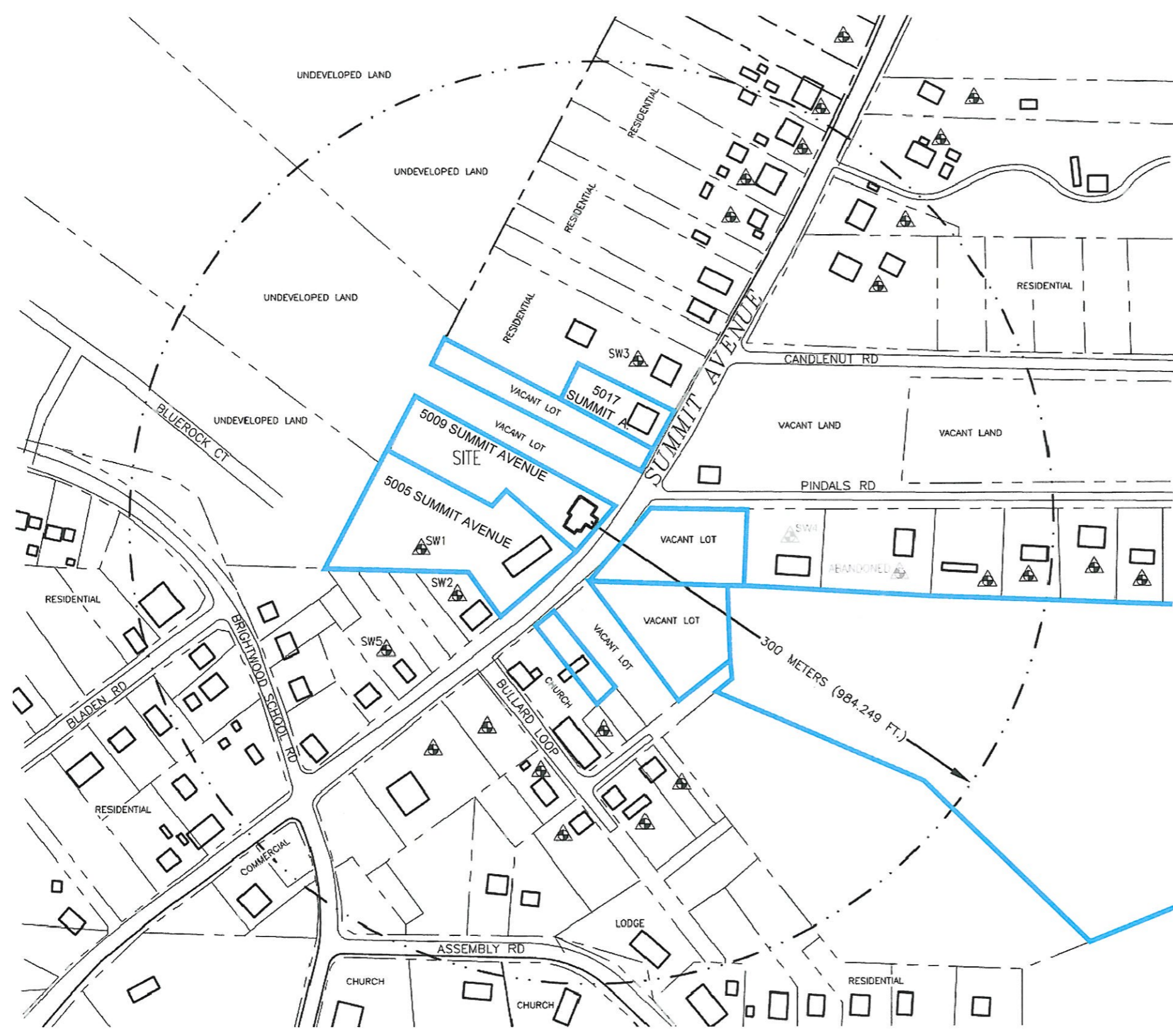
NOTES:

1. BASE MAP PREPARED FROM A DRAWING PROVIDED BY GES; DATED AUGUST 7, 2010; SCALE 1"=30'.
2. ALL LOCATIONS ARE APPROXIMATE.



EXXONMOBIL ENVIRONMENTAL SERVICES FORMER EXXON SERVICE STATION #99-GNC 5009 SUMMIT AVENUE, GREENSBORO, NC MONITORING WELL ABANDONMENT REPORT - 2013	
SITE MAP	
	FIGURE 2

CITY: SYRACUSE, NY DIV: ENVIRONMENTAL SERVICES TR: P. LISTER PM: J. FARLEY TR: P. GOODELL LYS: OFF-REF
 G:\ENVCAD\SYRACUSE\ACT\100470006\DWG\6551B02.DWG LAYOUT: 3 SAVED: 10/25/2013 4:38 PM ACADVER: 18.1S (LMS TECH) PAGES: 18
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 85851.X01

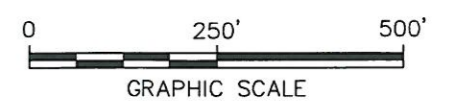


LEGEND

- WATER SUPPLY WELL
- PROPERTIES IN BLUE HAVE BEEN PURCHASED BY THE NCDOT FOR USE IN THE PROPOSED GREENSBORO LOOP (NCDOT PROJECT #U-2525C)
- PROPOSED PATH OF THE HIGHWAY
- ABANDONED WATER SUPPLY WELL

NOTES:

1. BASE MAP PREPARED FROM A DRAWING PROVIDED BY GES; DATED AUGUST 7, 2010; SCALE 1"=30'.
2. ALL LOCATIONS ARE APPROXIMATE.
3. SW-4 WAS THE POTABLE WELL THAT SERVICED 2710 PINDALS ROAD. THIS WELL WAS ABANDONED ON 10/22-10/23/2013.



EXXONMOBIL ENVIRONMENTAL SERVICES
 FORMER EXXON SERVICE STATION #99-GNC
 5009 SUMMIT AVENUE, GREENSBORO, NC
MONITORING WELL ABANDONMENT REPORT - 2013

POTABLE WELL LOCATION MAP



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Appendix A

Email Correspondence with the
NCENR – May – June 2013

From: Gene Mao <GMAO@co.guilford.nc.us>
Sent: Wednesday, June 12, 2013 2:17 PM
To: Farley, Jon
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

I think after the closing the well can be abandoned. Then you can move forward for site closure under the risk-based rules.

Thank.

From: Farley, Jon [mailto:Jon.Farley@arcadis-us.com]
Sent: Wednesday, June 12, 2013 2:08 PM
To: Gene Mao
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

Thank you Mr. Mao.

Please keep us posted. It is our understanding that the home will only be occupied for another 4 to 8 weeks and then the NCDOT will assume ownership as part of the Greensboro Loop Project.

From: Gene Mao [mailto:GMAO@co.guilford.nc.us]
Sent: Wednesday, June 12, 2013 2:05 PM
To: Farley, Jon
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

I have submitted the results and request to the State and hopefully hear from them soon.

Thanks.

From: Farley, Jon [mailto:Jon.Farley@arcadis-us.com]
Sent: Wednesday, June 12, 2013 1:31 PM
To: Gene Mao
Cc: Cox, Jewel G; Mattingly, Michael; Goodell, Paul
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

Hello Mr. Mao,

I just wanted to follow up with you and confirm that it is acceptable to proceed with our plan to provide bottled water to Ms. Morris' residence. Delivery is scheduled for this afternoon (06/12/13).

Thank you,
Jon

From: Farley, Jon
Sent: Tuesday, June 11, 2013 4:50 PM
To: 'Gene Mao'
Cc: 'Cox, Jewel G'; Mattingly, Michael (Michael.Mattingly@arcadis-us.com); Goodell, Paul (Paul.Goodell@arcadis-us.com)
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

Hello Mr. Mao,

We were able to visit the property at 2710 Pindals Road in Greensboro, NC and also meet with the current property owner (Ms. Janet King Morris) yesterday (06/10/13) evening. We provided Ms. Morris with the potable well sampling results from the two (2) potable water samples that were collected previously (05/14/13 and 05/30/13 – laboratory analytical results attached) from the spigot on the side of the home. We were also able to collect two additional potable water samples from the home (bathroom faucet and kitchen faucet) to confirm COC concentrations from the previous two sampling events.

Ms. Morris also confirmed that she has signed an agreement with the NCDOT and expects to vacate the property within the next 4 to 8 weeks. Ms. Morris' home phone number is 336-291-6911.

At this point we plan to move forward with providing Ms. Morris with bottled water for drinking. The bottled water delivery service to the residence will begin tomorrow (06/12/13).

Once we receive the laboratory analytical results from the additional confirmation potable well samples collected yesterday (06/10/13) we will pass those along to all parties.

If you have any questions please let me know.

Thank you,
Jon

From: Gene Mao [<mailto:GMAO@co.guilford.nc.us>]
Sent: Monday, June 10, 2013 2:15 PM
To: Farley, Jon
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

Jon Farley,

I concur with your plan.

Thanks.

Gene Mao

From: Farley, Jon [<mailto:Jon.Farley@arcadis-us.com>]
Sent: Monday, June 10, 2013 11:58 AM
To: Gene Mao
Cc: Cox, Jewel G; Mattingly, Michael; Goodell, Paul
Subject: RE: Incident #24265 - Former ExxonMobil Facility #99GNC - Potable Well Sampling

Hello Mr. Mao,

I wanted to follow up with you regarding incident #24265, former ExxonMobil facility #99GNC located at 5009 Summit Avenue in Greensboro, NC, and the recent potable well sampling events at the property located at 2710 Pindals Road (SW-4 on the attached figure).

A second potable well sample was collected from the potable well (same location as the first sample was collected – spigot on side of home) located at 2710 Pindals Road (SW4) on May 30, 2013 to confirm concentrations of 1,2-Dichloroethane (see email chain below). Laboratory analytical results (attached) indicated 1,2-Dichloroethane was

detected in the second sample collected at a concentration of 1.17 micrograms per Liter (ug/L) exceeding the North Carolina Groundwater Quality 2L Standard of 0.40 ug/L for 1,2-Dichloroethane.

However, since collecting the potable well samples we learned that the North Carolina Department of Transportation (NCDOT) has come to an agreement to purchase the property located at 2710 Pindals Road from the property owner (Ms. Janet King Morris) as part of the planned Greensboro, NC Loop Road Project. The property will be closed on within the next three (3) weeks (please see attached email from Ms. Heather Fulghum with the NCDOT). As a result, the property will be vacant and the well will no longer be in use. The property will also eventually become part of the planned road project (please see attached site map showing location of potable well at 2710 Pindals Road and the planned Greensboro, NC Loop Road Project construction).

At this time it is unknown if Ms. Morris is still residing at the property or if she has vacated (telephone number we have is no longer in service). We are planning to send someone to the property to inform Ms. Morris of the sampling results and confirm if the property is vacant and the well is still in use. If the well is still in use we would also like to collect multiple potable water samples from inside the property to confirm if concentrations of 1,2-Dichloroethane are from the potable well or from an alternate source within the structure.

Please let me know if our plan of action is acceptable and how we should proceed. Also, please let me know if you have any questions.

Thank you,
Jon

From: Goodell, Paul
Sent: Friday, May 24, 2013 10:35 AM
To: Gene Mao
Cc: Farley, Jon
Subject: RE: Incident #24265

Thank you Mr. Mao. We are utilizing TestAmerica for both sets of samples.

From: Gene Mao [<mailto:GMAO@co.guilford.nc.us>]
Sent: Friday, May 24, 2013 10:21 AM
To: Goodell, Paul
Subject: RE: Incident #24265

Mr. Goodell,

Thanks for the update. Resampling the well will be OK. Do you use the same lab or other lab?

Gene

From: Goodell, Paul [<mailto:Paul.Goodell@arcadis-us.com>]
Sent: Friday, May 24, 2013 10:08 AM
To: Gene Mao
Cc: Farley, Jon
Subject: RE: Incident #24265

Good morning Mr. Mao,

This email is in regards to incident #24265, Former ExxonMobil Facility #99GNC, which is located at 5009 Summit Avenue in Greensboro, NC. ARCADIS completed a round of potable well sampling at the four properties surrounding the site that we discussed last week. One property, 2710 Pindals Road (SW-4 on the attached figure), contained a detection for 1,2-dichloroethane at 1.32 ug/L which exceeds the 2L standard of 0.40 ug/L. No other dissolved-phase chemicals of concern (COCs) were detected above the minimum laboratory detection limits for this monitoring well. Additionally, none of the other potable wells sampled contained detections of dissolved-phase COCS.

The detection of 1,2-dichloroethane at 2710 Pindals Road is likely an anomaly compared with the non-detections for all other COCs at this location and the other sampled wells. I would like to propose to resample 2710 Pindals Road, only, early next week to confirm the detection.

Thank you

Paul

Paul Goodell, CES | Staff Environmental Scientist | paul.goodell@arcadis-us.com
ARCADIS U.S., Inc. | 801 Corporate Center Drive, Suite 300 | Raleigh, NC, 27607
T. 919-415-2299 | M. 919-741-0870 | F. 919.854.5448
www.arcadis-us.com
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ARCADIS

Appendix B

Well Abandonment Photographs

Appendix B – Monitoring Well Abandonment Photographs

Revision Date: November 2013

Incident: #24265 Facility Name: Former ExxonMobil Facility #99GNC



Photograph 1: Potable well at 2710 Pindals Road prior to abandonment



Photograph 2: Potable well at 2710 Pindals Road during abandonment

Appendix B – Monitoring Well Abandonment Photographs

Revision Date: November 2013

Incident: #24265 Facility Name: Former ExxonMobil Facility #99GNC



Photograph 3: Potable well at 2710 Pindals Road after abandonment



Photograph 4: Typical monitoring well prior to abandonment

Appendix B – Monitoring Well Abandonment Photographs

Revision Date: November 2013

Incident: #24265 Facility Name: Former ExxonMobil Facility #99GNC



Photograph 5: Typical monitoring well during abandonment



Photograph 6: Typical monitoring well during abandonment

Appendix B – Monitoring Well Abandonment Photographs

Revision Date: November 2013

Incident: #24265 Facility Name: Former ExxonMobil Facility #99GNC



Photograph 7: Typical remediation system well prior to abandonment



Photograph 8: Typical remediation system well during abandonment

Appendix B – Monitoring Well Abandonment Photographs

Revision Date: November 2013

Incident: #24265 Facility Name: Former ExxonMobil Facility #99GNC



Photograph 9: Typical remediation system well after abandonment

Appendix C

Well Abandonment Records

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

- | | |
|--|--|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Municipal/Public |
| <input type="checkbox"/> Geothermal (Heating/Cooling Supply) | <input type="checkbox"/> Residential Water Supply (single) |
| <input type="checkbox"/> Industrial/Commercial | <input type="checkbox"/> Residential Water Supply (shared) |
| <input type="checkbox"/> Irrigation | |

Non-Water Supply Well:

- | | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> Monitoring | <input type="checkbox"/> Recovery |
|--|-----------------------------------|

Injection Well:

- | | |
|--|---|
| <input type="checkbox"/> Aquifer Recharge | <input type="checkbox"/> Groundwater Remediation |
| <input type="checkbox"/> Aquifer Storage and Recovery | <input type="checkbox"/> Salinity Barrier |
| <input type="checkbox"/> Aquifer Test | <input type="checkbox"/> Stormwater Drainage |
| <input type="checkbox"/> Experimental Technology | <input type="checkbox"/> Subsidence Control |
| <input type="checkbox"/> Geothermal (Closed Loop) | <input type="checkbox"/> Tracer |
| <input type="checkbox"/> Geothermal (Heating/Cooling Return) | <input type="checkbox"/> Other (explain under 7g) |

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145909 N 79.743349 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-1

6b. Total well depth: 40.0 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

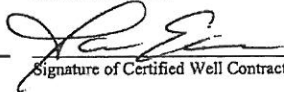
7f. For each material selected above, provide amount of materials used:

4 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:



Signature of Certified Well Contractor or Well Owner

Date: 10/29/13

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. **For All Wells:** Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. **For Injection Wells:** In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. **For Water Supply & Injection Wells:** In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

- | | |
|--|--|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Municipal/Public |
| <input type="checkbox"/> Geothermal (Heating/Cooling Supply) | <input type="checkbox"/> Residential Water Supply (single) |
| <input type="checkbox"/> Industrial/Commercial | <input type="checkbox"/> Residential Water Supply (shared) |
| <input type="checkbox"/> Irrigation | |

Non-Water Supply Well:

- | | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> Monitoring | <input type="checkbox"/> Recovery |
|--|-----------------------------------|

Injection Well:

- | | |
|--|---|
| <input type="checkbox"/> Aquifer Recharge | <input type="checkbox"/> Groundwater Remediation |
| <input type="checkbox"/> Aquifer Storage and Recovery | <input type="checkbox"/> Salinity Barrier |
| <input type="checkbox"/> Aquifer Test | <input type="checkbox"/> Stormwater Drainage |
| <input type="checkbox"/> Experimental Technology | <input type="checkbox"/> Subsidence Control |
| <input type="checkbox"/> Geothermal (Closed Loop) | <input type="checkbox"/> Tracer |
| <input type="checkbox"/> Geothermal (Heating/Cooling Return) | <input type="checkbox"/> Other (explain under 7g) |

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145961 N 79.743286 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-2

6b. Total well depth: 34.5 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: (ft.)

6e. Outer casing length (if known): (ft.)

6f. Inner casing/tubing length (if known): (ft.)

6g. Screen length (if known): (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

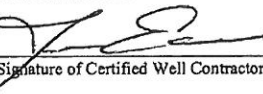
7f. For each material selected above, provide amount of materials used:

3-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:



Signature of Certified Well Contractor or Well Owner

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5012 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145664 N 79.742874 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-3

6b. Total well depth: 44.0 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

4-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. **For All Wells:** Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. **For Injection Wells:** In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. **For Water Supply & Injection Wells:** In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)
3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

- | | |
|--|--|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Municipal/Public |
| <input type="checkbox"/> Geothermal (Heating/Cooling Supply) | <input type="checkbox"/> Residential Water Supply (single) |
| <input type="checkbox"/> Industrial/Commercial | <input type="checkbox"/> Residential Water Supply (shared) |
| <input type="checkbox"/> Irrigation | |

Non-Water Supply Well:

- | | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> Monitoring | <input type="checkbox"/> Recovery |
|--|-----------------------------------|

Injection Well:

- | | |
|--|---|
| <input type="checkbox"/> Aquifer Recharge | <input type="checkbox"/> Groundwater Remediation |
| <input type="checkbox"/> Aquifer Storage and Recovery | <input type="checkbox"/> Salinity Barrier |
| <input type="checkbox"/> Aquifer Test | <input type="checkbox"/> Stormwater Drainage |
| <input type="checkbox"/> Experimental Technology | <input type="checkbox"/> Subsidence Control |
| <input type="checkbox"/> Geothermal (Closed Loop) | <input type="checkbox"/> Tracer |
| <input type="checkbox"/> Geothermal (Heating/Cooling Return) | <input type="checkbox"/> Other (explain under 7g) |

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5005 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145503 N 79.743652 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-4

6b. Total well depth: 40.1 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

4 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification

Signature of Certified Well Contractor or Well Owner

Date

[Signature] 10/29/13
By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C.0100 or 2C.0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.146087 N 79.743593 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-5

6b. Total well depth: 40.0 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____

For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

4 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification

Signature of Certified Well Contractor or Well Owner

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. **For All Wells:** Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. **For Injection Wells:** In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. **For Water Supply & Injection Wells:** In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

- | | |
|--|--|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Municipal/Public |
| <input type="checkbox"/> Geothermal (Heating/Cooling Supply) | <input type="checkbox"/> Residential Water Supply (single) |
| <input type="checkbox"/> Industrial/Commercial | <input type="checkbox"/> Residential Water Supply (shared) |
| <input type="checkbox"/> Irrigation | |

Non-Water Supply Well:

- | | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> Monitoring | <input type="checkbox"/> Recovery |
|--|-----------------------------------|

Injection Well:

- | | |
|--|---|
| <input type="checkbox"/> Aquifer Recharge | <input type="checkbox"/> Groundwater Remediation |
| <input type="checkbox"/> Aquifer Storage and Recovery | <input type="checkbox"/> Salinity Barrier |
| <input type="checkbox"/> Aquifer Test | <input type="checkbox"/> Stormwater Drainage |
| <input type="checkbox"/> Experimental Technology | <input type="checkbox"/> Subsidence Control |
| <input type="checkbox"/> Geothermal (Closed Loop) | <input type="checkbox"/> Tracer |
| <input type="checkbox"/> Geothermal (Heating/Cooling Return) | <input type="checkbox"/> Other (explain under 7g) |

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.146365 N 79.742781 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-6

6b. Total well depth: 44.6 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

4-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification

Signature of Certified Well Contractor or Well Owner

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. **For All Wells:** Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. **For Injection Wells:** In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. **For Water Supply & Injection Wells:** In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

- | | |
|--|--|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Municipal/Public |
| <input type="checkbox"/> Geothermal (Heating/Cooling Supply) | <input type="checkbox"/> Residential Water Supply (single) |
| <input type="checkbox"/> Industrial/Commercial | <input type="checkbox"/> Residential Water Supply (shared) |
| <input type="checkbox"/> Irrigation | |

Non-Water Supply Well:

- | | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> Monitoring | <input type="checkbox"/> Recovery |
|--|-----------------------------------|

Injection Well:

- | | |
|--|---|
| <input type="checkbox"/> Aquifer Recharge | <input type="checkbox"/> Groundwater Remediation |
| <input type="checkbox"/> Aquifer Storage and Recovery | <input type="checkbox"/> Salinity Barrier |
| <input type="checkbox"/> Aquifer Test | <input type="checkbox"/> Stormwater Drainage |
| <input type="checkbox"/> Experimental Technology | <input type="checkbox"/> Subsidence Control |
| <input type="checkbox"/> Geothermal (Closed Loop) | <input type="checkbox"/> Tracer |
| <input type="checkbox"/> Geothermal (Heating/Cooling Return) | <input type="checkbox"/> Other (explain under 7g) |

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees: (if well field, one lat/long is sufficient)

36.145921 N 79.743361 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-7

6b. Total well depth: 37.2 (ft.)

6c. Borehole diameter: 4.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

3-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. **For All Wells:** Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. **For Injection Wells:** In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. **For Water Supply & Injection Wells:** In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145835 N 79.743472 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-8

6b. Total well depth: 31.5 (ft.)

6c. Borehole diameter: 4.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

3 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. **For All Wells:** Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. **For Injection Wells:** In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. **For Water Supply & Injection Wells:** In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)
3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

- | | |
|--|--|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Municipal/Public |
| <input type="checkbox"/> Geothermal (Heating/Cooling Supply) | <input type="checkbox"/> Residential Water Supply (single) |
| <input type="checkbox"/> Industrial/Commercial | <input type="checkbox"/> Residential Water Supply (shared) |
| <input type="checkbox"/> Irrigation | |

Non-Water Supply Well:

- | | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> Monitoring | <input type="checkbox"/> Recovery |
|--|-----------------------------------|

Injection Well:

- | | |
|--|---|
| <input type="checkbox"/> Aquifer Recharge | <input type="checkbox"/> Groundwater Remediation |
| <input type="checkbox"/> Aquifer Storage and Recovery | <input type="checkbox"/> Salinity Barrier |
| <input type="checkbox"/> Aquifer Test | <input type="checkbox"/> Stormwater Drainage |
| <input type="checkbox"/> Experimental Technology | <input type="checkbox"/> Subsidence Control |
| <input type="checkbox"/> Geothermal (Closed Loop) | <input type="checkbox"/> Tracer |
| <input type="checkbox"/> Geothermal (Heating/Cooling Return) | <input type="checkbox"/> Other (explain under 7g) |

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.146000 N 79.743248 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-9

6b. Total well depth: 36.4 (ft.)

6c. Borehole diameter: 4.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

3-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145870 N 79.743589 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-10

6b. Total well depth: 34.9 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

3-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:


Signature of Certified Well Contractor or Well Owner

10/29/13
Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. **For All Wells:** Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. **For Injection Wells:** In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. **For Water Supply & Injection Wells:** In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.146122 N 79.743330 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: MW-11

6b. Total well depth: 36.65 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

3-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. **For All Wells:** Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. **For Injection Wells:** In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. **For Water Supply & Injection Wells:** In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input checked="" type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145824 N 79.743532 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: AS-1

6b. Total well depth: 49.0 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

5 bags

7g. Provide a brief description of the abandonment procedure:

Air sparge well

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input checked="" type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:

(if well field, one lat/long is sufficient)

36.145901 N 79.743422 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: AS-2

6b. Total well depth: 70.0 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

7 bags

7g. Provide a brief description of the abandonment procedure:

Air sparge well

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:

- | | |
|--|--|
| <input type="checkbox"/> Agricultural | <input type="checkbox"/> Municipal/Public |
| <input type="checkbox"/> Geothermal (Heating/Cooling Supply) | <input type="checkbox"/> Residential Water Supply (single) |
| <input type="checkbox"/> Industrial/Commercial | <input type="checkbox"/> Residential Water Supply (shared) |
| <input type="checkbox"/> Irrigation | |

Non-Water Supply Well:

- | | |
|-------------------------------------|-----------------------------------|
| <input type="checkbox"/> Monitoring | <input type="checkbox"/> Recovery |
|-------------------------------------|-----------------------------------|

Injection Well:

- | | |
|--|--|
| <input type="checkbox"/> Aquifer Recharge | <input type="checkbox"/> Groundwater Remediation |
| <input type="checkbox"/> Aquifer Storage and Recovery | <input type="checkbox"/> Salinity Barrier |
| <input type="checkbox"/> Aquifer Test | <input type="checkbox"/> Stormwater Drainage |
| <input type="checkbox"/> Experimental Technology | <input type="checkbox"/> Subsidence Control |
| <input type="checkbox"/> Geothermal (Closed Loop) | <input type="checkbox"/> Tracer |
| <input type="checkbox"/> Geothermal (Heating/Cooling Return) | <input checked="" type="checkbox"/> Other (explain under 7g) |

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

5009 Summit Ave, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.146008 N 79.743263 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: AS-3

6b. Total well depth: 49.4 (ft.)

6c. Borehole diameter: 2.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): _____ (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

5 bags

7g. Provide a brief description of the abandonment procedure:

Air sparge well

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

9. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well abandonment details. You may also attach additional pages if necessary.

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1617 Mail Service Center, Raleigh, NC 27699-1617

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Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

Joshua Ellingworth

Well Contractor Name (or well owner personally abandoning well on his/her property)

3544

NC Well Contractor Certification Number

Parratt-Wolff, Inc.

Company Name

2. Well Construction Permit #:

List all applicable well permits (i.e. County, State, Variance, Injection, etc.) if known

3. Well use (check well use):

Water Supply Well:	
<input type="checkbox"/> Agricultural	<input type="checkbox"/> Municipal/Public
<input type="checkbox"/> Geothermal (Heating/Cooling Supply)	<input type="checkbox"/> Residential Water Supply (single)
<input checked="" type="checkbox"/> Industrial/Commercial	<input type="checkbox"/> Residential Water Supply (shared)
<input type="checkbox"/> Irrigation	
Non-Water Supply Well:	
<input type="checkbox"/> Monitoring	<input type="checkbox"/> Recovery
Injection Well:	
<input type="checkbox"/> Aquifer Recharge	<input type="checkbox"/> Groundwater Remediation
<input type="checkbox"/> Aquifer Storage and Recovery	<input type="checkbox"/> Salinity Barrier
<input type="checkbox"/> Aquifer Test	<input type="checkbox"/> Stormwater Drainage
<input type="checkbox"/> Experimental Technology	<input type="checkbox"/> Subsidence Control
<input type="checkbox"/> Geothermal (Closed Loop)	<input type="checkbox"/> Tracer
<input type="checkbox"/> Geothermal (Heating/Cooling Return)	<input type="checkbox"/> Other (explain under 7g)

4. Date well(s) abandoned: 10/22/13

5a. Well location:

Exxon Mobil

Facility/Owner Name

Facility ID# (if applicable)

2710 Pindals Road, Greensboro, NC 27405

Physical Address, City, and Zip

Guilford

County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.145992 N 79.741523 W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

Attach well construction record(s) if available. For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

6a. Well ID#: SW-4

6b. Total well depth: 67.0 (ft.)

6c. Borehole diameter: 4.0 (in.)

6d. Water level below ground surface: _____ (ft.)

6e. Outer casing length (if known): 48.0 (ft.)

6f. Inner casing/tubing length (if known): _____ (ft.)

6g. Screen length (if known): _____ (ft.)

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: _____
For multiple injection or non-water supply wells ONLY with the same construction/abandonment, you can submit one form.

7b. Approximate volume of water remaining in well(s): _____ (gal.)

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: Chlorine tablets

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

- | | |
|---|---|
| <input type="checkbox"/> Neat Cement Grout | <input type="checkbox"/> Bentonite Chips or Pellets |
| <input type="checkbox"/> Sand Cement Grout | <input type="checkbox"/> Dry Clay |
| <input type="checkbox"/> Concrete Grout | <input type="checkbox"/> Drill Cuttings |
| <input checked="" type="checkbox"/> Specialty Grout | <input type="checkbox"/> Gravel |
| <input type="checkbox"/> Bentonite Slurry | <input type="checkbox"/> Other (explain under 7g) |

7f. For each material selected above, provide amount of materials used:

6-1/2 bags

7g. Provide a brief description of the abandonment procedure:

Tremie grouted casing in place

8. Certification:

Signature of Certified Well Contractor or Well Owner

Date

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