

Robbins, Susanne

From: Bob Jones [bobjones@co.rockingham.nc.us]
Sent: Wednesday, April 11, 2012 7:54 AM
To: Robbins, Susanne
Subject: Re: VFW Road

Tommy Law 336-552-7359 or 336-402-6364 Thanks, Bob

On Tue, Apr 10, 2012 at 1:17 PM, Robbins, Susanne <susanne.robbins@ncdenr.gov> wrote:

Bob,

I have tried two of the numbers I had for Mr. Law and was unable to contact him (disconnected or stuck in a voice mail loop). Did he leave you a number?

Sue Robbins, Hydrogeologist

IHSB, Superfund Section

NC Division of Waste Management

Wilmington Regional Office

(910) 796-7411

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Bob Jones [mailto:bobjones@co.rockingham.nc.us]
Sent: Monday, April 09, 2012 10:22 AM
To: Robbins, Susanne; Ted Nelson
Subject: Re: VFW Road

Hello Sue,

I received a voice mail from Tommy Law. He mentioned receiving your email and would like some more info on how the investigation is going. Please give him a call. Thanks, Bob

On Thu, Apr 5, 2012 at 12:14 PM, Robbins, Susanne <susanne.robbins@ncdenr.gov> wrote:

Bob,

Thank you for the information.

Sue

Sue Robbins, Hydrogeologist

IHSB, Superfund Section

NC Division of Waste Management

Wilmington Regional Office

(910) 796-7411

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From: Bob Jones [mailto:bobjones@co.rockingham.nc.us]
Sent: Thursday, April 05, 2012 12:03 PM
To: Robbins, Susanne; Ted Nelson
Subject: VFW Road

Hello Sue,

In response to you 4Apr email, attached is a letter we received from DWQ concerning the two incidents you mentioned. Mr Flynt was cced the attached letter. We did not write a report in house. Also, we do not have an address for Mr Flynt and our gis does not show him owning any of the land down grade from the Zarn site.

Bob

--

Bob Jones

Division of Environmental Health Registered Environmental Health Specialist

Rockingham County Department of Public Health Assistant Preparedness Coordinator

336-342-8179, (c) 336-589-5739

bojones@co.rockingham.nc.us

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--

Bob Jones

Division of Environmental Health Registered Environmental Health Specialist

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North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

TELEPHONE MEMO TO THE FILE

Date of Call: 4/10 - 4/16 Contact: Tommy Law
Staff: Sue Robbins (910) 796-7411 Company: _____
Site/Project: VFW Road Contamination Phone No. * see below

- 1) 336-402-9364 - **Healthcare, stuck in loop
- 2) 336-552-7359 - cell phone?
- 3) 336-348-6421 (work) - disconnected

called numbers (1) + (3) 4/10/12 and unable to reach Tommy
sent email to Bob Jones to request numbers + he gave
me (1) + (2)

- called and left message on 4/11/12 on number (2)

- Tommy called back on 4/16/12
- wanted to know if Mother's water could be
used for gardening - I explained that I did not have
copies of the results or HREs and gave him Hanna
Assefa + Vince Antrilli's phone numbers

- I explained that Vince would be resampling + we
would determine where to go from there.

- he stated that American Tobacco use to spray along
Narrow Gage Rd - but what was sprayed he didn't know,
Number he called from was 336-349-6022

3/12/12

Yoland Esque

- does give permission to sample her
two ponds

3/12/12

- not able to connect to
Leon S. Miegelsky, Jr.

Robbins, Susanne

From: Robbins, Susanne
Sent: Thursday, April 05, 2012 12:15 PM
To: 'Bob Jones'
Subject: RE: VFW Road

Bob,
Thank you for the information.
Sue

Sue Robbins, Hydrogeologist
IHSB, Superfund Section
NC Division of Waste Management
Wilmington Regional Office
(910) 796-7411

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From: Bob Jones [mailto:bobjones@co.rockingham.nc.us]
Sent: Thursday, April 05, 2012 12:03 PM
To: Robbins, Susanne; Ted Nelson
Subject: VFW Road

Hello Sue,

In response to you 4Apr email, attached is a letter we received from DWQ concerning the two incidents you mentioned. Mr Flynt was cced the attached letter. We did not write a report in house. Also, we do not have an address for Mr Flynt and our gis does not show him owning any of the land down grade from the Zarn site.

Bob

--

Bob Jones
Division of Environmental Health Registered Environmental Health Specialist
Rockingham County Department of Public Health Assistant Preparedness Coordinator
336-342-8179, (c) 336-589-5739
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JUL 08 1997

State of North Caro. b
Department of Environment,
Health and Natural Resources
Winston-Salem Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary



DIVISION OF WATER QUALITY
-- Water Quality Section --

June 30, 1997

CERTIFIED MAIL NUMBER P 536 301 564
RETURN RECEIPT REQUESTED

Mr. Stephen Andrews
Vice President of Finance & Treasurer
ZARN, Inc.
P.O. Box 1350
Reidsville, North Carolina 27323-1350

Dear Mr. Andrews:

**Subject: WATER QUALITY COMPLAINT INVESTIGATION
ZARN, Inc.
NPDES Stormwater Permit NCG050242
NPDES Permit NC0002828
Rockingham County**

This letter is to address the complaint by James Flynt Jr. regarding discharges from your facility onto his property. On June 26, 1997, David Russell and Beth Morton of this office met with James Flynt Jr. and Douglas Canavello of Pyramid Environmental on the property owned by James Flynt to investigate the complaint. After that meeting you accompanied David Russell and Beth Morton on a water quality inspection of ZARN, Inc.

There were two areas of concern resulting from the investigation. The first area was the unloading area for the pellets. When the pellets are unloaded pneumatically, some of them spill onto the ground. During rain events, these pellets are carried to the nearby storm drain which ultimately discharges to Mr. Flynt's property. Inspection of this area revealed that you have already installed screens over the storm drains to control the pellets from leaving your property. Update your Stormwater Pollution Prevention Plan to include what permanent method will be used to control pellets when it is installed. No further actions will be required concerning pellet discharges.

The second area of concern was an unknown discharge from a pipe at the rear of the plant. To comply with your stormwater permit you should investigate the source of this discharge to the best of your ability. It is understood that pesticide used during the past week is thought to have

585 Waughtown Street,
Winston-Salem, North Carolina 27107-2241
Voice 910-771-4600



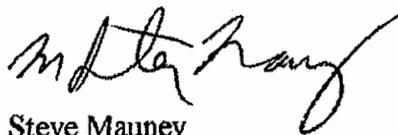
FAX 910-771-4631
An Equal Opportunity/Affirmative Action Employer
50% recycled/10% post-consumer paper

Stephen Andrews
June 30, 1997
Page 2

caused the discharge. Visually or analytically monitor the pipe to determine if any further discharges occur which are not stormwater. Your stormwater permit requires that you observe the pipes, ditches or outfalls leaving the property as necessary to ensure that only stormwater is discharged. Document as necessary if you determine that this discharge enters your property from another source. Notify this department in writing within thirty (30) days of receipt of this letter of the outcome of your stormwater investigation of this discharge and what, if any, measures were taken to eliminate the discharge.

Should you have any questions concerning these matters, please contact David Russell or Beth Morton at (910)771-4600.

Sincerely,



Steve Mauney
Water Quality Supervisor

cc: James E. Flynt Jr AIC, CIC, AAI, AIS
Douglas Canavello, Pyramid Environmental, Inc.
~~Rockingham County Health Department~~
Hugh Jernigan, Solid & Hazardous Waste Section
Sherri Knight, Groundwater Section Supervisor
WSRO file
Central file

Robbins, Susanne

From: Robbins, Susanne
Sent: Wednesday, April 04, 2012 1:48 PM
To: 'bobjones@co.rockingham.nc.us'; 'tommy.law@piedmontng.com'; Day, Collin; Thomas, Mike
Subject: VFW Road Contamination (former Zarn)
Attachments: VFWmap.pdf

Hello,
I just wanted to give everyone an update on the water supply sampling results. When I had talked with Vince Antrilli, IHSB Raleigh, he indicated that only some metals and a minor amount of chlorinated solvents had been detected but nothing at levels of major concern. He had only just received the results at that time and he has since plotted out the results on the attached map. Looks like there is a pesticide, dieldrin, above the NC 2L Groundwater Standard. All shaded parcels were sampled. The lot in the pie shaped area formed by Market St & VFW Rd is apparently connected to public water but uses the well for showering etc, just not drinking. Vince is going to ask some more questions to the homeowner about this setup. Vince will be resampling some of the wells to confirm the presence of contamination.

Bob,
In the attachments you sent, there was mention of a water quality complaint investigation in 1997 about a discharge of plastic pellets, and a discharge of a pesticide from a pipe - discharges onto adjacent property of James Flynt, Jr. Is there more information on these releases? Do you have the address/location for James Flynt, Jr.? I would greatly appreciate any additional information anyone may have.

I am still tracking down the owner(s) of the former Zarn property. We may have enough information to request them to perform some assessment.

Please let me know if you have any additional information or any questions.
Sincerely,

Sue Robbins, Hydrogeologist
IHSB, Superfund Section
NC Division of Waste Management
Wilmington Regional Office
(910) 796-7411

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Robbins, Susanne

From: Walch, John
Sent: Monday, April 02, 2012 3:45 PM
To: Robbins, Susanne
Subject: FW:
Attachments: 20120402153847787.pdf

Sue-

Here is a map that Vince created.

All shaded parcels were sampled. The lot in the pie shaped area formed by Market St & VFW Rd is apparently connected to public water but uses the well for showering etc, just not drinking. Vince is going to ask some more questions to the homeowner about this setup.

John W. Walch
Eastern Unit Supervisor
Inactive Hazardous Sites Branch
NC Division of Waste Management
Superfund Section
(919) 707-8356

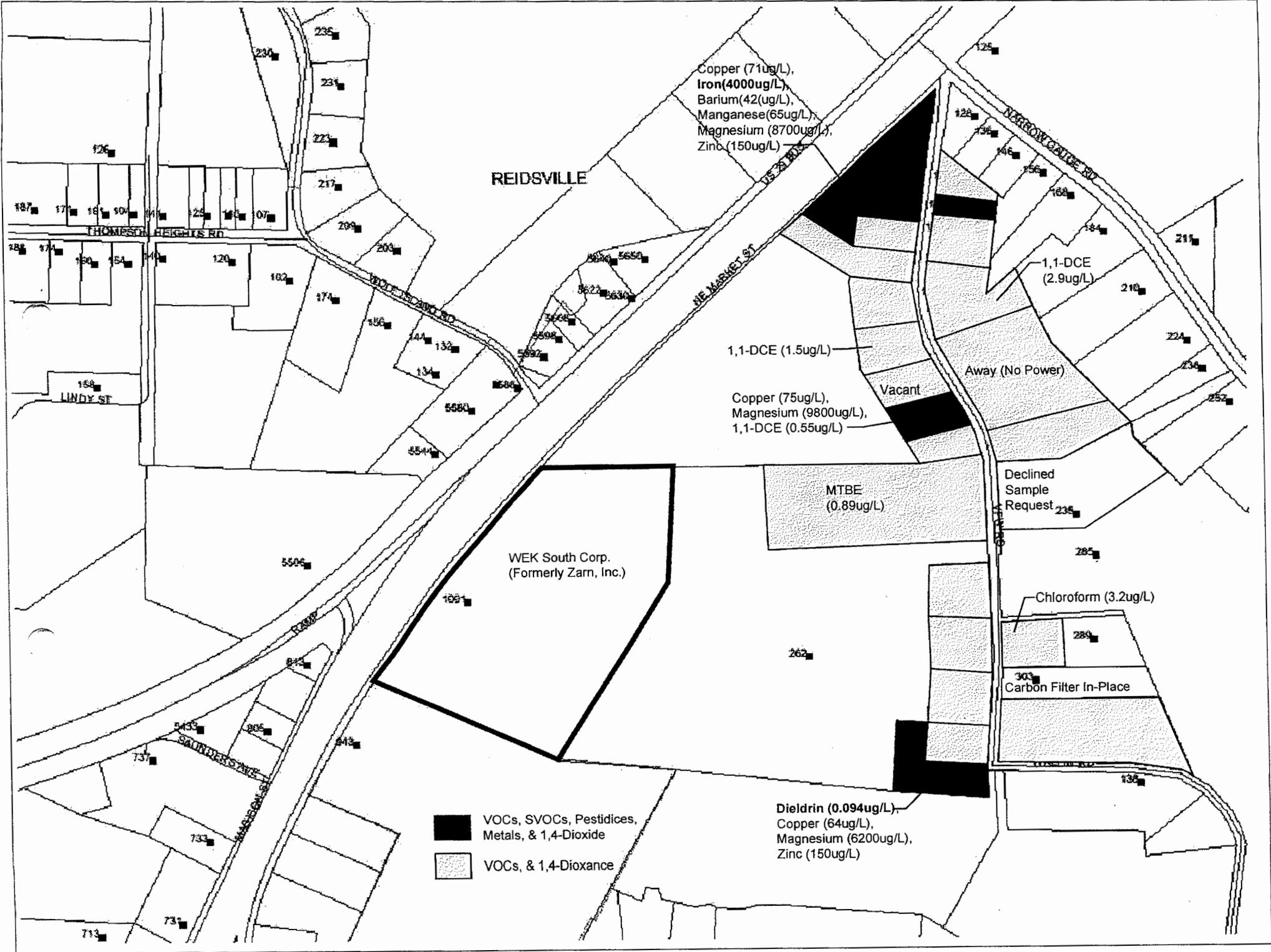
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-----Original Message-----

From: John Walch [mailto:john.walch@ncdenr.gov]
Sent: Monday, April 02, 2012 3:39 PM
To: Walch, John
Subject:

This E-mail was sent from "RNP2B7E34" (Aficio MP 5001).

Scan Date: 04.02.2012 15:38:47 (-0400)



Robbins, Susanne

From: Walch, John
Sent: Monday, April 02, 2012 3:24 PM
To: Robbins, Susanne
Subject: Zarn

Sue-

Based on the data from Vince's sampling event, Charlotte wants us to add the site to our inventory. Please complete a data entry form for the site that we can call "VFW Road Contamination" Vince will be resampling some of the wells to confirm the presence of contamination. Upon receipt of the next round of results, we will probably need to task S&ME with doing some gw sampling to look for the source.

Also, you had previously mentioned a pesticide dump, leak or disposal around this area. Did this have to do with the Zarn facility or just a illegal disposal by others?

Thanks

*John W. Walch
Eastern Unit Supervisor
Inactive Hazardous Sites Branch
NC Division of Waste Management
Superfund Section
(919) 707-8356*

***Green Square Complex DENR Office Building
217 W. Jones Street
Raleigh, NC 27603***

***Mailing Address:
1646 Mail Service Center
Raleigh, NC 27699***

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Robbins, Susanne

From: Basinger, Corey
Sent: Thursday, March 15, 2012 8:56 AM
To: Robbins, Susanne
Subject: RE: Zarn Sampling

Thanks, Sue.
Corey

W. Corey Basinger
Regional Supervisor
Surface Water Protection Section
Winston-Salem Regional Office
Division of Water Quality

Email: corey.basinger@ncdenr.gov
Phone: (336) 771-5000
Fax (336) 771-4630

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Robbins, Susanne
Sent: Thursday, March 15, 2012 8:55 AM
To: Thomas, Mike; Basinger, Corey
Subject: Zarn Sampling

Hello,

Just wanted to give you an update after my discussions with Jay Sauber. Jay indicated that he was willing to provide a support role in collecting samples but would not proceed as the primary lead for sampling at the site. We appreciate the offer for assistance in collecting samples. At this time, the IHSB plans to wait for the Water Supply sampling results and based on these results make a decision on how best to proceed. We may take Surface Water's offer to provide assistance at that point. We will contact you following our decision and request your assistance if needed. Again, thank you for your time and help in this matter.

Sue Robbins, Hydrogeologist
IHSB, Superfund Section
NC Division of Waste Management
Wilmington Regional Office
(910) 796-7411

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North Carolina Department of Environment and Natural Resources

Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

TELEPHONE MEMO TO THE FILE

Date of Call: 2-15-12

Contact: _____

Staff: Sue Robbins (910) 796-7411

Company: _____

Site/Project: Zarn / Reidsville
Rockingham

Phone No. _____

~ Tommy Law 749-1945
VFW Road / Zarn
33 cancer ~ lung + brain

336-402-6364 } 3

- forwarded from Ginny 2-15-12
he hadn't heard back from me and wanted to
know what was going to be happening

~ 27 ~ Residences:
VOC's ^{- some} SVOCs + METALS

27th - 28th sampling } 3

- Left message for Tommy on 2-15-12 @ 11AM
let him know that Vince was to call + he was in
charge of the sampling + that if he ~~had~~ ^{did get} further
questions, he could call me back
answered

Robbins, Susanne

From: Hudson, Eric
Sent: Monday, February 13, 2012 11:58 AM
To: tommy.law@piedmontng.com
Cc: Robbins, Susanne
Subject: FW: Zarn Complaint

Hi Mr. Law,

I apologize for not giving you Ms. Sue Robbins contact information when I returned your phone call. I assumed you got her information when you spoke with her on Feb. 1st. Her phone number is: 910-796-7411.

Regards,
Eric Hudson

Eric Hudson
Assistant Regional Engineer
NC DENR Winston-Salem Regional Office
Division of Water Resources, Public Water Supply Section
585 Waughtown Street
Winston-Salem, NC 27107
Voice: (336) 771-5070
FAX: (336) 771-4632
Eric.Hudson@NCDENR.gov
<http://www.ncwater.org/pws>

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From: Robbins, Susanne
Sent: Wednesday, February 01, 2012 1:11 PM
To: Day, Collin; Hudson, Eric
Subject: Zarn Complaint

FYI.

I talked with Mr. Law and he indicated that most of the folks are willing to let their wells be sampled and most everyone is on a well there. He also indicated that the water had a metal taste, often a strong smell, and most people were filtering or drinking bottled water. He also indicated that the Zarn pond (farthest north) often was blue and that you could smell a strong plastic odor from the plant.

My review of the EPA Envirofacts website indicated that Zarn did have a waste water permit and Diakon Molding, Inc (subsequent owner) had an air permit. The facility report indicated that the site had never been inspected. Bucks Amoco is listed at 5580 US 29 Business – not sure if they were listed for UST permitting or if they had had a problem. There was also a site (Marion Baynes) listed at the end of Penn Lake Circle as having waste water treatment. Not much information on the website so had to tell if they were just listed as a permitted facility or if they had any incidents.

Sue Robbins, Hydrogeologist
IHSB, Superfund Section

NC Division of Waste Management
Wilmington Regional Office
(910) 796-7411

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Robbins, Susanne

From: Robbins, Susanne
Sent: Monday, February 06, 2012 2:44 PM
To: Parris, Bruce; Walch, John
Subject: RE: Info for Citizen Call-VFW Road Zarn Facility
Attachments: image001.jpg

Thanks Bruce,

We have the information and I have forwarded to Vince, who will be heading up the WSW sampling. I am following up on the UST and Surface Water involvement/information and review of the "site" data for the Zarn property. A big thanks to Collin for all his assistance and coordination efforts.

Sue Robbins, Hydrogeologist
IHSB, Superfund Section
NC Division of Waste Management
Wilmington Regional Office
(910) 796-7411

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From: Parris, Bruce
Sent: Monday, February 06, 2012 2:23 PM
To: Walch, John; Robbins, Susanne
Subject: FW: Info for Citizen Call-VFW Road Zarn Facility

Just an FYI for additional info regarding the Zarn complaint. To support Sue's efforts, Bonnie Ware and Collin can assist with sampling, if you need, since they are so close to the site.

Bruce Parris - Bruce.Parris@ncdenr.gov
Environmental Supervisor II, Western Region
Div. of Waste Mgt. - Superfund Section - Inactive Hazardous Sites Branch
Mooresville Regional Office
610 East Center Ave, Suite 301
Mooresville, NC 28115
Ph: (704) 663-1699 Fax: (704) 663-6040
<http://portal.ncdenr.org/web/wm/sf/ihshome>



North Carolina Department of
Environment and Natural Resources

The Superfund Section - IHSB's Specifications for Electronic Document Submittal can be found at:
http://portal.ncdenr.org/c/document_library/get_file?uuid=cb794534-e1a2-4c7a-b4c2-faf3c8d056d9&groupId=38361

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North Carolina Public Records Law and may be disclosed to third parties
unless the content is exempt by statute or other regulation.

From: Day, Collin
Sent: Friday, February 03, 2012 10:41 AM
To: Parris, Bruce
Subject: FW: Info for Citizen Call-VFW Road Zarn Facility

Bruce:

Since I have spent three partial mornings this week on the subject site and initially forwarded you emails about the situation, I am going to forward the attached and message below on as well. The Environmental Health Director phoned me yesterday and indicated that his department had a file on the release of plastic pellets along with a chemical that was discharged into the lake. Evidently the release somehow played a role in the breach of a dam. Consequently, his report does corroborate that of the citizen who called the WSRO Public Water Supply Section.

Collin Day
Hydrogeologist
NC DENR Winston-Salem Regional Office
Division of Waste Management, Superfund Section-IHSB
585 Waughtown Street
Winston-Salem, NC 27107
Voice: (336) 771-5281
FAX: (336) 771-4632

From: Bob Jones [mailto:bobjones@co.rockingham.nc.us]
Sent: Friday, February 03, 2012 10:00 AM
To: Robbins, Susanne; Day, Collin; Hudson, Eric; Ted Nelson
Subject: Info for Citizen Call

Hello all,

Ted pulled the file on Zarn and suggested the 3 attachments as good summary info. Let me know if you need more detail.

Also attached are instructions to access our local GIS aerial photography.

The area has an abundance of wells to choose for sample points. City water is available in part of the area around Zarn but is primarily used for fire protection. Most residences have wells. City water is not available on VFW Rd or Wolf Island Rd. Give me the selection criteria and I will start locating sample points.

Hope this is helpful. Let me know how else we can help. Thanks, Bob

--
Bob Jones
Division of Environmental Health Registered Environmental Health Specialist
Rockingham County Department of Public Health Assistant Preparedness Coordinator
336-342-8179, (c) 336-589-5739
bobjones@co.rockingham.nc.us

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such subject to request and review by anyone at any time. It also may contain information which is confidential within the meaning of applicable federal and state laws.

Robbins, Susanne

From: Rogers, Mike
Sent: Friday, February 03, 2012 11:05 AM
To: susanne.robins@ncdenr.gov
Subject: Emailing: 2006-MAR-07.tif
Attachments: 2006-MAR-07.tif

The message is ready to be sent with the following file or link attachments:

2006-MAR-07.tif

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

March 7, 2006

Mr. Don Hibbetts
Performance Plastic Prodcut
c/o Christopher Hay
Trigon Engineering Consultants, Inc.
P. O. Box 18846
Greensboro, NC 27409

Re: Notice of No Further Action
15A NCAC 2L .0407(d)
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

Zarn, Inc. – Manufacturing Facility
1001 Northeast Market Street Extension,
Reidsville, NC
Rockingham County
Incident Number: 11391
Risk Classification: Low

Dear Mr. Hibbetts:

The Receptor Survey Update and Request for No Further Action received by the Underground Storage Tank (UST) Section, Winston-Salem Regional Office on December 12, 2005, the Notice of Residual Petroleum received on February 27, 2006, and other reports received earlier have been reviewed. The review indicates that soil contamination exceeds the residential maximum soil contaminant concentrations (MSCCs), established in Title 15A NCAC 2L .0411.

The UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0407(a) you have a continuing obligation to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

Be advised that as soil contamination exceeds the residential MSCCs, the property containing the soil contamination is not suitable for residential use (e.g., homes, schools nursing homes parks, recreation areas, day care centers).

As soil contamination exceeds the residential MSCCs, pursuant to NCGS 143B-279.9 and 143B-279.11, you must file the approved Notice of Residual Petroleum (attached) with the Register of Deeds in the county in which the release is located and submit a certified copy to the UST Section within 30 days of receipt of this letter. This No Further Action determination will not become valid until the UST

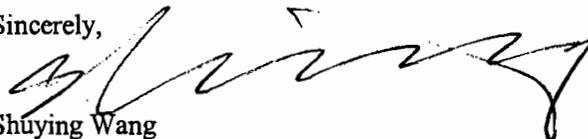
Section receives a certified copy of the Notice of Residual Petroleum which is filed with the Register of Deeds.

As soil contamination exceeds the lower of the soil-to-groundwater or residential MSCCs, public notice in accordance with 15A NCAC 2L .0409(b) also is required. Thus, within 30 days of receipt of this letter, a copy of the letter must be provided by certified mail, or by posting in a prominent place, if certified mail is impractical, to the local health director, the chief administrative officer of each political jurisdiction in which the contamination occurs, all property owners and occupants within or contiguous to the area containing contamination, and all property owners and occupants within or contiguous to the area where the contamination is expected to migrate. Within 60 days of receiving this no further action letter, this office must be provided with proof of receipt of the copy of the letter or of refusal by the addressee to accept delivery of the copy of the letter or with a description of the manner in which the letter was posted. This No Further Action determination will not become valid until public notice requirements are completed. Interested parties may examine the Soil Cleanup Report/ Site Closure Request by contacting this regional office and may submit comments on the site to the regional office at the address or telephone number listed below.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

If you have any questions regarding this notice, please contact me at the address or telephone number listed below.

Sincerely,



Shuying Wang
Hydrogeologist
Winston-Salem Regional Office

Attachments: Notice of Residual Petroleum

cc: Rockingham County Health Department
WSRO Files

UST Regional Offices

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 (828) 296-4500

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 (910) 486-1541

Mooresville (MOR) – 610 East Center Avenue, Suite 301, Mooresville, NC 28115 (704) 663-1699

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 (919) 791-4200

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 (252) 946-6481

Wilmington (WIL) – 127 Cardinal Drive Extension, Wilmington, NC 28405 (910) 796-7215

Winston-Salem (WS) – 585 Waightown Street, Winston-Salem, NC 27107 (336) 771-5000

Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, (336) 641-3771

FTP: NFA low-NRP NOR1205.dot



North Carolina Department of Environment and Natural Resources

Beverly Eaves Perdue, Governor

Division of Waste Management
UST Section

Dee Freeman, Secretary
Dexter R. Matthews, Director

March 8, 2011

173455
8905-08-88-2930

Mr. Stephen Andrews
A&A Real Estate Services
231 Fairfield Road
Reidsville, NC 27320

Re: Notice of No Further Action
15A NCAC 2L .0106
Corrective Action

WEK Molding, Inc.
1001 Northeast Market Street, Reidsville, NC
Rockingham County
Incident Number: 87996
Ranking: Low Priority

Dear Mr. Andrews:

The Site Closure Sampling Report received by the UST Section, Winston-Salem Regional Office on March 7, 2011 has been reviewed. A review of the report indicates that soil contamination does not exceed the TPH action level and that contaminated soils have been properly disposed of.

Based on information provided to date, the UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required. If you have any questions regarding this notice, please contact me at (336) 771-5340 or Michael Rogers at (336) 771-5343.

Sincerely,

Cindy Buntoul
UST Regional Supervisor
Winston-Salem Regional Office

cc: Rockingham County Health Department
Gregory Kanellis, ERM NC, Inc.
WSRO files

MAR 15 2011

Robbins, Susanne

From: Rogers, Mike
Sent: Friday, February 03, 2012 11:06 AM
To: susanne.robins@ncdenr.gov
Subject: Emailing: 2005-SEP-23.tif, 2003-JUL-10.tif
Attachments: 2005-SEP-23.tif; 2003-JUL-10.tif

The message is ready to be sent with the following file or link attachments:

2005-SEP-23.tif
2003-JUL-10.tif

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ENGINEERING CONSULTANTS, INC.

www.trigoneng.com

P.O. Box 18846 • Zip 27419-8846 • 313 Gallimore Dairy Road • Greensboro, NC 27409 • p 336.668.0093 • f 336.668.3868

September 23, 2005

Ms. Shuying Wang
NCDENR
585 Waughtown Street
Winston-Salem, North Carolina 27107

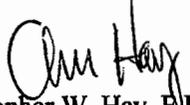
Reference: **LETTER OF TRANSMITTAL
Additional Soil Sample Results
Zarn, Inc. - Manufacturing Site
1001 Northeast Market Street Extension
Reidsville, North Carolina
Trigon Project No. 042-05-133**

Dear Ms. Wang:

Trigon Engineering Consultants, Inc. (Trigon) has completed the additional soil sampling for the referenced site. Should you have any questions or require additional information, please do not hesitate to contact the undersigned at your convenience.

Very truly yours,

TRIGON ENGINEERING CONSULTANTS, INC.


Christopher W. Hay, E.I.
Engineering Manager


John M. Stewart, P.G.
Senior Project Geologist

CWH/JMS:mes

Attachments

s:\0420\projects\2005\04205133\205133.doc

Thank you for our success.

ADDITIONAL SOIL SAMPLE RESULTS

SITE INFORMATION

SITE NAME: Zarn, Inc. - Manufacturing Facility
1001 Northeast Market Street Extension
Reidsville, Rockingham County, North Carolina 27320

LATITUDE AND LONGITUDE: North 36° 23' 9", West 79° 39' 6.5"

GROUNDWATER INCIDENT NO.: 11391

RISK CLASSIFICATION: High - water supply wells within 1,000 feet

LAND USE CATEGORY: Industrial/Commercial

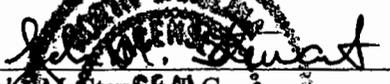
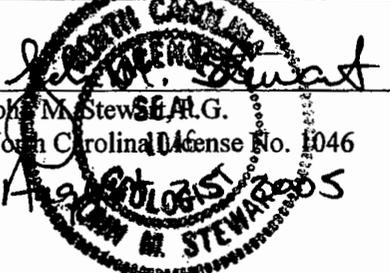
UST OWNER/RESPONSIBLE PARTY: Plastic Omnium Automotive Services, Inc.
11718 McGallion Road
Houston, Texas 77041
Attn.: Mr. Don Hibbetts
Phone: (281) 774-6243

PROPERTY OWNER: Diakon Molding, Inc.
1001 Northeast Market Street Extension
Reidsville, North Carolina 27320
Phone: (336) 349-3323

CONSULTANT: Trigon Engineering Consultants, Inc.
Post Office Box 18846
Greensboro, North Carolina 27419
Attn.: Mr. Christopher W. Hay, E.I.
Phone: (336) 668-0093

RELEASE INFORMATION: The release addressed by this report resulted from a 1,000-gallon used hydraulic oil UST. The release was discovered during the April 1992 closure of the UST and was confirmed by the chemical analysis of soil samples collected during the closure. The amount of the release is unknown.

Seal and Signature of Certifying Licensed Geologist:


John M. Stewart, S.E., G.
North Carolina License No. 1046


1.0 SOURCE CHARACTERIZATION AND SITE HISTORY

1.1 SOURCE INFORMATION

The street address of the site is 1001 Northeast Market Street Extension, Reidsville, Rockingham County, North Carolina. It is located on the south side of Northeast Market Street Extension, approximately 0.5 mile east of US Highway 158. The building is currently owned and occupied by Diakon Molding, Inc., a manufacturer of extruded plastic products.

A 1,000-gallon underground storage tank (UST) formerly located on the southwest side of the manufacturing plant was used for the temporary storage of used hydraulic oil. The UST was closed-in-place in the late 1980's by filling with cement slurry.

In April 1992, the UST was excavated and removed. What appeared to be used oil was observed on top of the unconsolidated slurry during the removal of the UST and five 55-gallon drums of product were pumped from the tank. A release from the UST was confirmed by the chemical analysis of two soil samples that were collected beneath the UST. Approximately 56 tons of affected soil were excavated and transported for off-site disposal. The volume of the release is unknown.

1.2 PREVIOUS SAMPLING/INVESTIGATION RESULTS

The chemical analysis of soil samples collected from the bottom of the excavation and from six subsequent soil borings identified an area of oil and grease affected soil in the vicinity of the former UST, with contaminant concentrations decreasing between 13.5 and 23.5 feet below ground surface. Chlorinated hydrocarbons were also detected in the excavated soil and in a sample from soil boring SB-6. The soil sample locations are shown on Drawing 1.

The chemical analysis of soil samples using the analytical methods required by the Risk-Based Corrective Action rule detected chlorinated hydrocarbons, lead, and extractable and volatile petroleum hydrocarbon fractions in samples from MW-1 and SS-1. Targeted analytes reported at concentrations above the Soil-to-Groundwater Maximum Soil Contaminant Concentrations (MSCCs) included tetrachloroethylene (PCE) at 0.07 mg/kg (milligrams per kilogram, analogous to parts per million) and the C₉-C₂₂ aromatic hydrocarbon fraction at 812.9 mg/kg.

TABLE OF CONTENTS

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TABLES

1	Soil Sample Analytical Summary
2	Historical Soil Sample Analytical Summary

DRAWINGS

1	Soil Sample Locations
---	-----------------------

APPENDICES

A	Laboratory Reports and Chain-of-Custody Forms
B	Pre Approval Task Authorization Form

On April 15, 2005 soil samples were collected to determine whether soil in the vicinity of the former UST location had been remediated to an acceptable level. Four soil samples were collected in the vicinity of SB-1, SB-6, SS-1, and T1-N2 and labeled B-1, B-2, B-3, and B-4 respectively. Analytical results for all soil samples indicated that contaminant levels were below the Soil-to-Groundwater Maximum Soil Contaminant Concentrations (MSCCs) with the exception of the C₉-C₂₂ Aromatics in sample B-1.

2.0 RECENT SAMPLING/INVESTIGATION RESULTS

As recommended by the NCDENR in a letter dated June 8, 2005, a duplicate soil sample was collected in the vicinity of B-1. On August 4, 2005, one soil sample was collected from between 17 and 18 feet below the ground surface using direct push equipment for analyses by MADEP VPH/EPH. The samples were collected and sealed in laboratory prepared containers and stored on ice for shipment to Pace Analytical in Huntersville, North Carolina. Analytical results for the soil sample indicated that contaminant levels were below the Soil-to-Groundwater Maximum Soil Contaminant Concentrations (MSCCs) with the exception of the C₉-C₂₂ Aromatics in sample B-1. A comparison of the analytical results for the sample collected at B-1 on April 15, 2005 and August 4, 2005 are summarized in Table 1. A historical summary of the analytical results from previous investigations at the site are presented in Table 2.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the laboratory analyses of the additional soil sample, it appears that the existing remediation system does not have a strong influence in the vicinity of B-1. Relatively low levels of volatile and semi-volatile organic compounds were detected in the soil sample collected from boring B-1 at a depth of 17.5 feet below ground surface. Trigon recommends system modifications including installation of a vapor extraction well in the vicinity of B-1 soil boring. After a remediation period of approximately 6 months, soil in the vicinity of B-1 should be re-sampled. If analytical results indicate contaminant levels are below the Soil-to-Groundwater MSCCs, we will request that No Further Action be required for this incident.

In addition, minor routine maintenance of the remediation system should be conducted each month. Trigon will collect system monitoring data and make adjustments to the flow rate from the vapor wells each month during regular maintenance trips to the site. A Pre Approval Task Authorization form to conduct this work is attached (Appendix B) and will be sent to the NCDENR for approval.

TABLES

TABLE 1: SOIL SAMPLE ANALYTICAL SUMMARY

Parameter	Analytical Results		Comparison Criteria	
	B-1	B-1	Soil-to-Groundwater MSCC	Residential MSCC
Sample ID	B-1	B-1		
Collection Depth (feet bgs)	17.5	17.5		
Collection Date	04/15/05	08/04/05		
Total Volatile and Extractable Petroleum Hydrocarbons by MADEP VPH/EPH Method (mg/kg)				
C5-C8 Aliphatics	BDL	BDL	72	939
C9 - C18 Aliphatics	38	110	3,255	9,386
C19 - C36 Aliphatics	1,100	5,900	#	93,860
C9 - C22 Aromatics	53	640	34	469

Notes:

Results presented in parts per million (ppm)

Feet bgs = Feet below ground surface

= Considered immobile

BDL = Below detection limits

MSCC = Maximum soil contaminant concentration

Bold denotes concentration exceeds the Soil-to-Groundwater MSCC

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TABLE 2: HISTORICAL SOIL SAMPLE ANALYTICAL SUMMARY

Parameter	Analytical Results												Comparison Criteria	
	South of Former UST				SE Wall of UST Excavation			East of Former UST		North End of UST Excavation			Soil-to-Groundwater MSCC	Residential MSCC
Sample ID	SB-1	SB-1	B-1	B-1	SB-6	SB-6	B-2	SS-1	B-3	T1-N2	T1-S2	B-4		
Collection Depth (feet bgs)	13.5	23.5	17.5	17.5	13.0	22.0	18.0	15.0	17.0	16.0	16.0	18.0		
Collection Date	03/29/95	03/29/95	04/15/05	08/04/05	03/31/95	03/31/95	04/15/05	06/14/99	04/15/05	04/10/92	04/10/92	04/15/05		
VOCs by EPA Method 8260														
Acetone	BDL	BDL	0.91	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.0	1564
Tetrachloroethene	BDL	0.033	BDL	NA	BDL	BDL	BDL	0.060	BDL	BDL	BDL	BDL	0.007	12
1,1,1 Trichloroethane	0.014	BDL	BDL	NA	BDL	BDL	BDL	0.145	BDL	BDL	BDL	BDL	1.50	NS
1,1-Dichloroethane	BDL	BDL	BDL	NA	BDL	BDL	BDL	0.016	BDL	BDL	BDL	BDL	4.0	1560
1,2,4-Trimethylbenzene	BDL	BDL	BDL	NA	BDL	BDL	BDL	0.009	BDL	BDL	BDL	BDL	7.0	782
2-Butanone (MEK)	BDL	BDL	0.19	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.7	9385
2-Hexane	BDL	BDL	0.06	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9	625
SVOCs by EPA Method 8270 BN														
All Targeted Analytes	NA	NA	BDL	NA	NA	NA	BDL	NA	BDL	NA	NA	BDL	-	-
MADEP VPH/EPH Method														
C9 - C18 Aliphatics	NA	NA	38	110	NA	NA	BDL	2,200	NA	NA	NA	BDL	3,255	9,386
C19 - C36 Aliphatics	NA	NA	1,100	5,900	NA	NA	BDL	3,130	NA	NA	NA	BDL	#	93,860
C9 - C22 Aromatics	NA	NA	53	640	NA	NA	BDL	482	NA	NA	NA	BDL	34	469
EPA Method 9071														
Oil and Grease	41,800	141	NA	NA	22,500	166	NA	NA	NA	150,000	43,000	NA	-	-
EPA Method 3050														
Chromium	NA	NA	NA	NA	NA	NA	NA	2.12	NA	NA	NA	NA	27	47
Lead	NA	NA	NA	NA	NA	NA	NA	57.5	NA	NA	NA	NA	270	400

Notes:

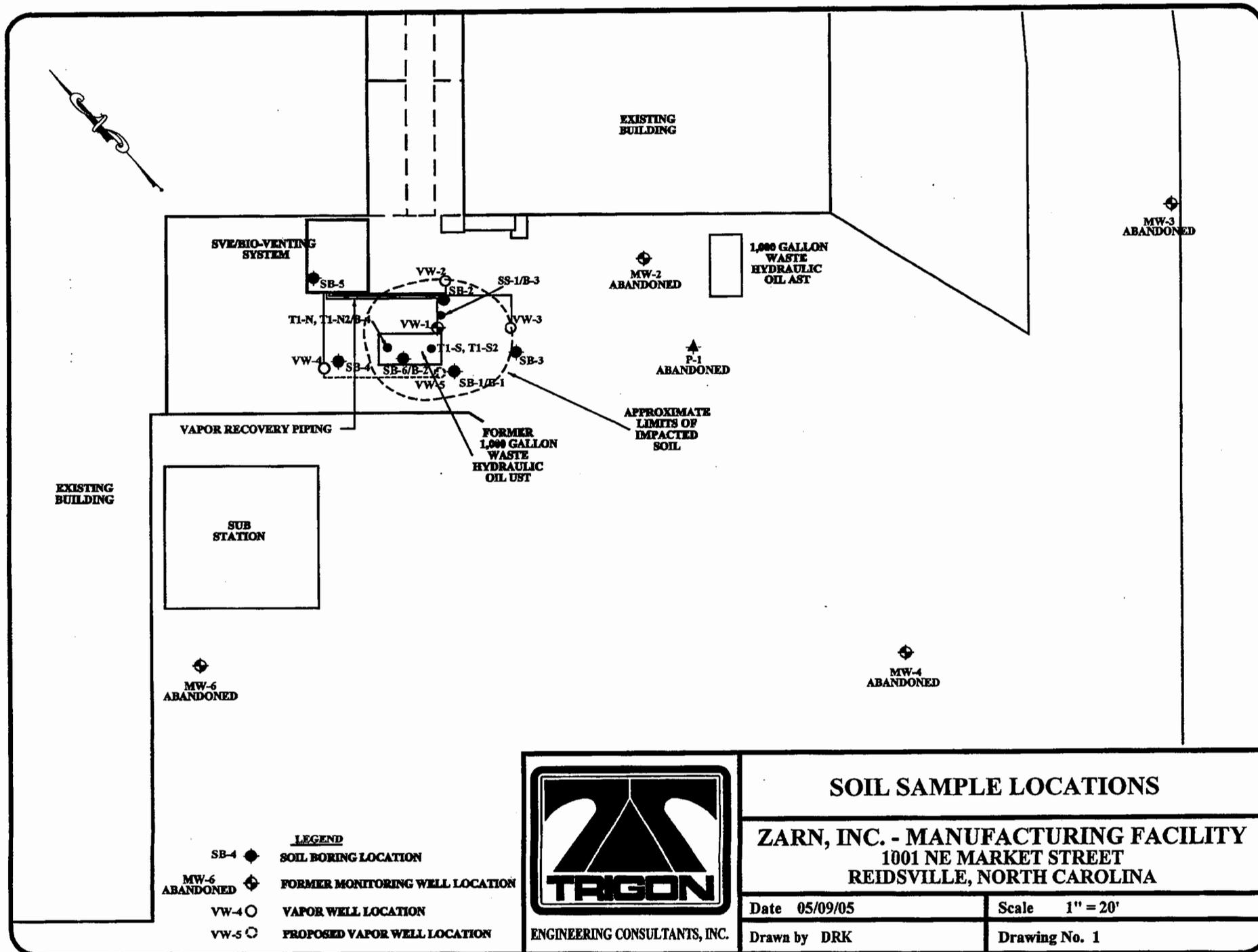
- Results presented in parts per million (ppm)
- Feet bgs = Feet below ground surface
- BN = Base neutral compounds
- NA = Not Applicable
- # = Considered immobile
- BDL = Below detection limits
- MSCC = Maximum soil contaminant concentration
- Bold denotes concentration exceeds the Soil-to-Groundwater MSCC
- NS = No Standard Established

Prepared by: GGL

Checked by: CWH

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DRAWINGS



- LEGEND**
- SB-4 ● SOIL BORING LOCATION
 - MW-6 ABANDONED ◆ FORMER MONITORING WELL LOCATION
 - VW-4 ○ VAPOR WELL LOCATION
 - VW-5 ○ PROPOSED VAPOR WELL LOCATION



ENGINEERING CONSULTANTS, INC.

SOIL SAMPLE LOCATIONS

ZARN, INC. - MANUFACTURING FACILITY
 1001 NE MARKET STREET
 REIDSVILLE, NORTH CAROLINA

Date 05/09/05	Scale 1" = 20'
Drawn by DRK	Drawing No. 1

APPENDIX A



Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

August 16, 2005

Mr. Chris Hay
Trigon Engineering Consultants
313 Gallimore Dairy Rd
Greensboro, NC 27409

RE: Lab Project Number: 92100392
Client Project ID: Zarn 042-05-133

Dear Mr. Hay:

Enclosed are the analytical results for sample(s) received by the laboratory on August 5, 2005. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Bonnie McKee
Bonnie.McKee@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Asheville Certification IDs

NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648



Charlotte Certification IDs

NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

SAMPLE SUMMARY

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92100392
Client Project ID: Zarn 042-05-133

Project	Sample				
<u>Sample Number</u>	<u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
92100392-001	925949570	B1(17.5)	Soil	08/04/05 10:52	08/05/05 16:24

REPORT OF LABORATORY ANALYSIS

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Asheville Certification IDs

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NC Drinking Water 37712
SC Environmental 99030
FI NFI AP F87648



Charlotte Certification IDs

NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627



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SAMPLE ANALYTE COUNT

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078

Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 92100392

Client Project ID: Zarn 042-05-133

Project			Analysis		Analytes
<u>Sample Number</u>	<u>Sample No</u>	<u>Client Sample ID</u>	<u>Code</u>	<u>Analysis Description</u>	<u>Reported</u>
92100392-001	925949570	B1(17.5)	%MOISTURE	Percent Moisture	1
			EPH SL92	EPH in Soil by Mass. Method	8
			VPHM SL92	VPH in Soil by Mass. Method	5

REPORT OF LABORATORY ANALYSIS

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NC Drinking Water 37712
SC Environmental 99030
FI NFI AP F87648



Charlotte Certification IDs

NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Project Number: 92100392
Client Project ID: Zarn 042-05-133

Solid results are reported on a dry weight basis

Lab Sample No: 925949570 Project Sample Number: 92100392-001 Date Collected: 08/04/05 10:52
Client Sample ID: B1(17.5) Matrix: Soil Date Received: 08/05/05 16:24

Parameters	Results	Units	Report Limit	MDL	DF	Analyzed	By	CAS No.	Qual	RegLmt
------------	---------	-------	--------------	-----	----	----------	----	---------	------	--------

Wet Chemistry

Percent Moisture	Method: % Moisture									
Percent Moisture	10.3	%				1.0 08/08/05 11:12	KDF			

GC Semivolatiles

EPH in Soil by Mass. Method	Prep/Method: EPA 3550 / EPH									
Aliphatic (C09-C18)	110	mg/kg	11.	11.	1.1	08/12/05 19:49	KBS			
Aliphatic (C19-C36)	5900	mg/kg	11.	2.0	1.1	08/12/05 19:49	KBS			
Aromatic (C11-22)	640	mg/kg	11.	4.6	1.1	08/12/05 19:49	KBS			
2-Fluorobiphenyl (S)	70	%			1.0	08/12/05 19:49	KBS	321-60-8		
2-Bromonaphthalene (S)	129	%			1.0	08/12/05 19:49	KBS	580-13-2		
Nonatriacontane (S)	63	%			1.0	08/12/05 19:49	KBS	7194-86-7		
o-Terphenyl (S)	148	%			1.0	08/12/05 19:49	KBS	84-15-1	1	
Date Extracted	08/08/05					08/08/05				

GC Volatiles

VPH in Soil by Mass. Method	Method: VPH									
Aliphatic (C05-C08)	ND	mg/kg	13.	6.0	1.3	08/11/05 11:57	DHW			
Aliphatic (C09-C12)	ND	mg/kg	13.	6.6	1.3	08/11/05 11:57	DHW			
Aromatic (C09-C10)	ND	mg/kg	13.	5.6	1.3	08/11/05 11:57	DHW			
2,5-Dibromotoluene (FID)(S)	61	%			1.0	08/11/05 11:57	DHW			2
2,5-Dibromotoluene (PID)(S)	53	%			1.0	08/11/05 11:57	DHW			2

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Asheville Certification IDs

NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FI NFI AP FR7648



Charlotte Certification IDs

NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of EPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- (S) Surrogate
- [1] The surrogate recovery was outside QC acceptance limits due to matrix interference.
- [2] Low surrogate recovery was confirmed as a matrix effect by a second analysis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 92100392
Client Project ID: Zarn 042-05-133

QC Batch: 134684 Analysis Method: VPH
QC Batch Method: VPH Analysis Description: VPH in Soil by Mass. Method
Associated Lab Samples: 925949570

METHOD BLANK: 925955916
Associated Lab Samples: 925949570

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Aliphatic (C05-C08)	mg/kg	ND	10.	
Aliphatic (C09-C12)	mg/kg	ND	10.	
Aromatic (C09-C10)	mg/kg	ND	10.	
2,5-Dibromotoluene (FID)(S)	%	102		
2,5-Dibromotoluene (PID)(S)	%	95		

LABORATORY CONTROL SAMPLE & LCSD: 925955924 925955932

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	% Rec	Max	Footnotes
		Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Aliphatic (C05-C08)	mg/kg	20.00	25.59	25.76	128	129	70-130	1 30	
Aliphatic (C09-C12)	mg/kg	5.000	6.066	6.149	121	123	70-130	1 30	
Aromatic (C09-C10)	mg/kg	5.000	4.791	4.856	96	97	70-130	1 30	
2,5-Dibromotoluene (FID)(S)					128	113	70-130		
2,5-Dibromotoluene (PID)(S)					103	88	70-130		

Date: 08/16/05

Page: 4 of 6

REPORT OF LABORATORY ANALYSIS

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NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648



Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

- LCS(D) Laboratory Control Sample (Duplicate)
- MS(D) Matrix Spike (Duplicate)
- DUP Sample Duplicate
- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- RPD Relative Percent Difference
- (S) Surrogate

REPORT OF LABORATORY ANALYSIS

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Asheville Certification IDs

NC Wastewater	40
NC Drinking Water	37712
SC Environmental	99030
FI NFI AP	E87648



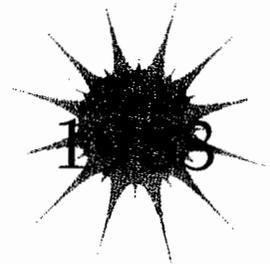
Charlotte Certification IDs

NC Wastewater	12
NC Drinking Water	37706
SC	99006
FL NELAP	E87627

APPENDIX B



ENGINEERING CONSULTANTS, INC.



www.trigoneng.com

P.O. Box 18846 • Zip 27419-8846 • 313 Gallimore Dairy Road • Greensboro, NC 27409 • p 336.668.0093 • f 336.668.3868

August 23, 2005

Ms. Shuying Wang
NCDENR
Division of Waste Management
UST Section
585 Waughtown Street
Winston-Salem, North Carolina 27107

Reference: **Trust Fund Pre-Approval for Remediation System Modifications, Monitoring a SVE/Bio-Venting System, and Confirmation Soil Sampling
Zarn, Inc. - Manufacturing Site
1001 Northeast Market Street Extension
Reidsville, North Carolina
Trigon Proposal No. 042-05-099-P Revised**

Dear Ms. Wang:

Trigon Engineering Consultants, Inc. (Trigon) is submitting a Pre-Approval Task Authorization Form to install one additional vapor well, to monitor and conduct scheduled maintenance for the SVE/bio-venting system through March 2005, and to collect one additional soil sample following six months of continued remediation system operation.

One additional vapor well will be installed in the vicinity of B-1 and manifolded to the existing remediation system. The well will be installed to a depth of 26 feet below ground surface with 2-inch diameter schedule 40 PVC factory slotted screen and riser. The boring will be drilled with 12-inch outside diameter hollow stem augers. The screen will extend from 16 feet to 26 feet below ground surface. The borehole annulus will be backfilled with clean coarse filter sand over the screened section and bentonite to within 3 feet of the ground surface. The vapor well (VW-5) will be manifolded to the existing remediation system at the location of VW-4 to avoid underground utilities running through the area. The bio-venting system blower requires lubricating the bearings and changing the oil monthly to comply with the manufacturer's warranty. During the site visits to complete the required maintenance, the system will be monitored and adjustments will be made, if necessary.

In April 2006, a soil sample will be collected to determine whether soil in the vicinity of soil boring B-1 has been remediated to an acceptable level. One soil sample will be collected using a direct push rig in the vicinity of B-1 at an approximate depth of 17 to 18 feet below ground surface. If analytical results indicate contaminant levels are below the Soil-to-Groundwater MSCCs, we will request that No Further Action be required for this incident. A copy of a drawing with the proposed vapor well VW-5 location is attached.

Thank you for our success.

A table summarizing the requested tasks is attached. Please review the enclosed information for approval of the listed tasks.

Very truly yours,
TRIGON ENGINEERING CONSULTANTS, INC.

Christopher W. Hay, E.I.
Engineering Manager

John M. Stewart, P.G.
Senior Registered Geologist

CWH/JMS:mes

Attachments: Task Authorization Form Breakdown
Pre-Approval Task Authorization Form
Drawing with Proposed Vapor Well Location

Cc: Mr. Chris Loeb - Robinson, Bradshaw & Hinson, P.A.

s:\0420\proposals\2005\p4205099trustfundrev.doc

PRE-APPROVAL TASK AUTHORIZATION FORM BREAKDOWN

Zarn, Inc. - Manufacturing Site

Reidsville, North Carolina

Trigon Proposal No. 042-05-099-P Revised

Task Number	Description	Quantity	Unit Cost	Total Amount Requested
3.101	Supervision of Drilling/Soil Sampling	2 hours	\$95.00/hour	\$190.00
3.111	Soil Boring	18 feet	\$15.00/foot	\$270.00
3.111	Vapor Well Installation	26 feet	\$45.00/foot	\$1,170.00
3.398	Drill Rig Mobilization	2	\$350.00/event	\$700.00
4.090	Laboratory Analytical	1 sample	8260 - \$93.00 8270BN - \$161.00 VPH/H - \$193.00	\$447.00
6.101	Active Remediation Monitoring Report	1 (Semi-annual)	\$889.00/report	\$889.00
7.081	Field Supervision Remedial System Installation	10 hours	\$90.00/hour	\$900.00
7.100	Cost for Installing Remedial System Modification	Lump Sum	\$1,700.00	\$1,700.00
7.201	Scheduled Maintenance	6 x 4 hours 6 trips x 80 miles	\$93.00/hour \$1.30/mile	\$2,856.00
7.250	Maintenance Supplies	1	\$25.00	\$25.00
7.260	Operating Costs	4,320 hours	\$0.20/hour	\$864.00
12.010	Travel - Soil Sampling	80 miles	\$1.30/mile	\$104.00
			TOTAL	\$10,115.00

NON DIRECTED TASKS

Site Name Zam, Inc. - Manufacturing Site Site Rank High Incident # 11391
 City Redisville County Rockingham
 Owner/Operator/Landowner/Attorney-in-Fact Diakon Molding, Inc.
 Name of Consulting Firm Trigon Engineering Consultants, Inc. Name of Project Manager Mr. Chris Hay
 Date of Proposal (consultant) 8/23/05 Proposal Number (consultant) 042-05-099-P Revised
 Consultant Phone (336) 668-0093 Consultant Fax (336) 668-3868
 Regional Office Winston Salem Incident Manager (if known) Ms. Shuying Wang
 Site Status: Active No Further Action Commercial Noncommercial
 Has State Trust Fund eligibility been determined? Yes No Final claim for this site? Yes No
 Third party costs (bottled water, POE, WSW sampling, etc.) in this request? Yes No If yes, break out costs by task
TASK AUTHORIZATION NUMBER _____

Note: This form should be used to receive preapproval from the UST Section. A proposal must be attached to elaborate on the costs for the tasks listed below and to describe the scope of work and the rationale for conducting these activities. If you discover that unexpected tasks must be performed and/or costs will be incurred that will exceed the amount preapproved in this authorization, then you must complete and submit an **Amended Preapproval/Claim Authorization Form** to the regional office. Please attach this form to the cover of the corresponding claim when requesting reimbursement. **IMPORTANT:** Only one claim may be submitted during a quarter or 3-month period. All pre-approvals submitted within a claim are closed with that claim. Final reimbursement of costs associated with the **Total Claim Approved Amount** below may vary depending on the eligibility status of the site (i.e., deductibles, apportionment, etc.) and claim review.

Attach all Main Consultant/Contractor Invoices. Attach the proof of payment directly to the front of each Main Consultant/Contractor Invoice.

Task No.	PREAPPROVAL - IF REQUIRED <i>(See instructions for tasks requiring preapproval)</i>		REIMBURSEMENT	
	Preapproval Requested Amt. <i>(Consultant)</i>	Preapproved Amount <i>(UST Section)</i>	Claim Requested Amount <i>(Consultant)</i>	Final Approved Amount <i>(Central Office)</i>
3.101	\$190.00			
3.111	\$270.00			
3.111	\$1,170.00			
3.398	\$700.00			
4.090	\$447.00			
6.101	\$889.00			
7.081	\$900.00			
7.100	\$1,700.00			
7.201	\$2,856.00			
7.250	\$25.00			
7.260	\$864.00			
12.010	\$104.00			
Totals	\$10,115.00			
Claim Prep. Cost (No. of Tasks x \$20.00) =			A	
			B	
TOTAL CLAIM AMOUNT (A+B) =				

Main Consultant Project Manager Signature *Chris Hay* Date 9/23/05
 UST Section Pre-approval Authorization: RO: _____ CO: _____
 Date: _____ Date: _____

I _____ (tank owner/operator/landowner) understand and agree that reimbursement of claims submitted to the Department for costs incurred as a result of properly completing the tasks preapproved herein will not be paid until after the Department has paid all claims for tasks that the Department directs.

Signature _____ Date: _____
 Before me personally appeared _____ to me known and known to me to be the person described in and who executed the foregoing instrument, and acknowledge to and before me that _____ executed said instrument for the purposes therein.

WITNESS my hand and official seal, this _____ day of _____ A.D. _____
 Notary Public _____ My Commission expires _____
 State of _____ County of _____



ENGINEERING CONSULTANTS, INC.



P.O. Box 18846 • Zip 27419-8846 • 313 Gallimore Dairy Road • Greensboro, NC 27409 • (336) 668-0093 • FAX (336) 668-3868

July 10, 2003

Ms. Shuying Wang
NCDENR
585 Waughtown Street
Winston-Salem, North Carolina 27107

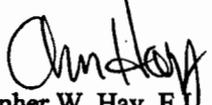
Reference: **Corrective Action Monitoring Report
Zarn, Inc. - Manufacturing Site
1001 Northeast Market Street Extension
Reidsville, North Carolina
Trigon Project No. 015-03-033**

Dear Ms. Wang:

Trigon Engineering Consultants, Inc. (Trigon) has completed the third quarterly Corrective Action Monitoring Report for the referenced site. Should you have any questions or require additional information, please do not hesitate to contact the undersigned at your convenience.

Very truly yours,

TRIGON ENGINEERING CONSULTANTS, INC.


Christopher W. Hay, E.I.
Engineering Manager


John R. Arnall, Jr., P.E.
Branch Manager

CWH/JRA:pkb

Attachments

Cc: Mr. Chris Loeb – Robinson, Bradshaw, and Hinson, P.A.

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Thank you for our success.

CORRECTIVE ACTION MONITORING REPORT

SITE INFORMATION

SITE NAME: Zarn, Inc. - Manufacturing Facility
1001 Northeast Market Street Extension
Reidsville, Rockingham County, North Carolina 27320

GROUNDWATER INCIDENT NO.: 11391

RISK CLASSIFICATION: High - water supply wells within 1,000 feet

LAND USE CATEGORY: Industrial/Commercial

UST OWNER/RESPONSIBLE PARTY: Plastic Omnium Zarn, Inc.
1001 Northeast Market Street Extension
Reidsville, North Carolina 27320
Attn.: Mr. Jon Farley
Phone: (713) 744-4251

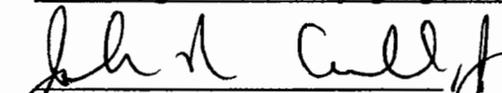
PROPERTY OWNER: Diakon Moldings, Inc.
1001 Northeast Market Street Extension
Reidsville, North Carolina 27320
Phone: (336) 349-3323

CONSULTANT: Trigon Engineering Consultants, Inc.
Post Office Box 18846
Greensboro, North Carolina 27419
Attn.: Mr. Christopher W. Hay, E.I.
Phone: (336) 668-0093

RELEASE INFORMATION: The release addressed by this report resulted from a 1,000-gallon used hydraulic oil UST. The release was discovered during the April 1992 closure of the UST and was confirmed by the chemical analysis of soil samples collected during the closure. The amount of the release is unknown.

Latitude and Longitude: North 36° 23' 09", West 79° 39' 6.5"

Seal and Signature of Certifying Registered Engineer


John R. Arnall, Jr., P.E.
Registered North Carolina No. 15735

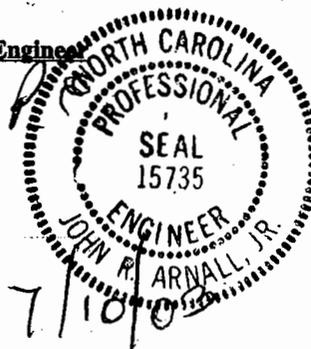


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1	Groundwater Analytical Results
2	SVE/Bio-Venting System Operational Data Summary
3	SVE/Bio-Venting System Emissions Sample Results

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1	1971 USGS Topographic Map (Photorevised 1994)
2	Site Map
3	Site and Surrounding Properties with Water Supply Wells within 1,000 feet.

APPENDICES

Appendix A	Groundwater Analytical Report
Appendix B	SVE/Bio-Venting System Exhaust Analytical Report

1.0 SOURCE CHARACTERIZATION AND SITE HISTORY

1.1 SOURCE INFORMATION

The street address of the site is 1001 Northeast Market Street Extension, Reidsville, Rockingham County, North Carolina. It is located on the south side of Northeast Market Street Extension, approximately 0.5± mile east of US Highway 158 (Drawing 1). The building is currently owned and occupied by Diakon Moldings, Inc., a manufacturer of extruded plastic products.

A 1,000-gallon underground storage tank (UST) formerly located in an alley on the southwest side of the manufacturing plant was used for the temporary storage of used hydraulic oil. The UST was closed-in-place in the late 1980's by filling with cement slurry.

In April 1992, the UST was excavated and removed. What appeared to be used oil was observed on top of the unconsolidated slurry during the removal of the UST and five 55-gallon drums of product were pumped from the tank. A release from the UST was confirmed by the chemical analysis of two soil samples that were collected beneath the UST. Approximately 56 tons of affected soil were excavated and transported for off-site disposal. The volume of the release is unknown.

1.2 PREVIOUS SAMPLING/INVESTIGATION RESULTS

The chemical analysis of soil samples collected from the bottom of the excavation and from six subsequent soil borings identified an area of oil and grease affected soil in the vicinity of the former UST, with contaminant concentrations decreasing between 13.5 and 23.5 feet. Chlorinated hydrocarbons were also detected in the excavated soil and in a sample from soil boring SB-6. The site map is provided as Drawing 2.

The chemical analysis of soil samples using the analytical methods required by the Risk-Based Corrective Action rule detected chlorinated hydrocarbons, lead, and extractable and volatile petroleum hydrocarbon fractions in samples from MW-1 and SS-1. Targeted analytes reported at concentrations above the Soil-to-Groundwater Maximum Soil Contaminant Concentrations (MSCCs) included tetrachloroethylene (PCE) at 0.07 mg/kg (milligrams per kilogram, analogous to parts per million) and the C₉-C₂₂ aromatic hydrocarbon fraction at 812.9 mg/kg.

Groundwater impacted by chlorinated hydrocarbons and extractable and volatile petroleum hydrocarbon fractions was detected in samples collected from monitoring well MW-1. Relatively low concentrations of chlorinated hydrocarbons were also detected in samples from piezometer P-1 and monitoring well MW-5. The detection of PCE at 3 ug/l (micrograms per liter, analogous to parts per billion) in a sample from MW-1 was the only targeted analyte reported at a concentration above the maximum levels permitted by Title 15A of the North Carolina Administrative Code, Subchapter 2L (2L Standards). The area of affected groundwater with a PCE concentration above the 2L Standard appears to be confined to the immediate vicinity of the former UST. Because subsequent groundwater sampling results from monitoring well MW-1 have not indicated any violations of the 2L Standards, corrective action for groundwater has not been required.

The Corrective Action Plan (CAP) proposed a soil vapor extraction (SVE)/bio-venting system for remediation of the affected soil. An Addendum to the CAP was completed including a SVE/bio-venting pilot test.

2.0 RECEPTOR INFORMATION

A water well survey was conducted on September 8, 1997 and updated on January 16, 2001. The survey consisted of a field reconnaissance of the area surrounding the site and a review of public records at the City of Reidsville Office of Planning and Community Development. Planning maps at a scale of 1 inch equal to 200 feet were used to identify structures in the vicinity of the site. Drawing 3 shows the site and private supply wells identified within 1,000 feet of the release. These supply wells were identified at residences and business located in the vicinity of the intersection of Wolf Island Road and Freeway Drive (Hwy. 29 Business). According to Mr. Steve Moran with the Office of Planning and Community Development, a 12-inch municipal water main extending along Madison Drive terminates before reaching Wolf Island Road. Door-to-door and telephone interviews conducted by Trigon identified five private wells servicing nine individual structures within 1,000 feet of the release at the locations indicated on Drawing 3. Additional private water supply wells were identified within 1,500 feet east of the release along VFW Road and north on Wolf Island Road. According to Mr. Michael Pearce with the Office of Planning and Community Development, the owners of the private water wells supply structures that are outside the city limits and they would have to petition the city to be annexed before they could connect to the municipal system.

Surface waters within 500 feet of the release include a pond and two unnamed tributaries of Lick Fork Creek, which are located to the south and east. No wellhead protection areas were identified in the vicinity of the release. According to the Reidsville Public Works Department, the municipal system water intake is located at Lake Reidsville, approximately 6 miles southwest of the release.

Land use in the area surrounding the site is primarily residential and undeveloped woodlands. Immediately west and north of the site are Northeast Market Street, a southern railroad right-of-way, and Highway 29 Business. On the northwest side of Business Highway 29 are the St. James Missionary Baptist Church, WREV radio station, an Amoco service station, a Citgo gas station, and the Christian Fellowship Church. Property to the south, east, and northeast of the site is wooded.

3.0 REMEDIAL EQUIPMENT INSTALLATION

Details of the design of the bio-venting system are included in the bid documents, specifications, and drawings previously submitted. The SVE/bio-venting system primarily includes four venting wells with flow controls piped to a manifold, a moisture separator with high level float relay, particulate filter, vacuum relief valve, a positive displacement blower, 5 hp motor, air dilution valve with silencer and filter, flow meter, vacuum and pressure gauges, temperature gauge, silencer on the exhaust, and control panel. Installation of the remedial system began on November 18 and was completed and tested on November 26, 2002. Drawing 2 shows the location of the equipment and venting wells.

An Operation and Maintenance Manual was prepared by Mid-Atlantic Environmental Equipment. The only routine maintenance required is to lubricate the bearings and change the oil in the blower every 40 days to comply with the manufacturer's warranty. In addition, the tension of the drive belts needs to be checked and adjusted, if necessary. Water accumulated in the moisture separator also needs to be drained. A copy of the Operation and Maintenance Manual was previously submitted.

4.0 GROUNDWATER SAMPLING

On June 20, 2003, groundwater samples were collected from monitoring well MW-1. The well was purged of three well volumes of water with a disposable bailer. After allowing the well to recharge, groundwater samples were collected and placed in laboratory prepared containers. The groundwater samples were maintained on ice until delivery to Pace Analytical Laboratories in Huntersville, North Carolina.

Groundwater samples collected from monitoring well MW-1 were analyzed for volatile organic compounds by EPA Methods 601 and 602 plus xylenes and volatile and extractable petroleum hydrocarbons by the Massachusetts Department of Environmental Protection Methods. Groundwater sample analytical results indicate that no targeted analytes were detected. Historical groundwater analytical results are summarized in Table 1. A copy of the complete laboratory report is included in Appendix A.

5.0 SVE/BIO-VENTING SYSTEM MONITORING

On June 20, 2003, exhaust from the remediation system was sampled and measurements were recorded from the remediation system. The information was collected to quantify the emissions and evaluate the effectiveness of the system. Table 2 summarizes the recorded system data including the vacuum at each venting well, the vacuum at the blower, the flow rate, and temperature of the system exhaust.

A sample of the system exhaust was recovered through a sampling port for analysis of volatile organic compounds by Method TO-14. In addition, the sample was analyzed for total hydrocarbons. The sample was collected with a laboratory supplied vacuum canister and sent to Pace Analytical Laboratories in Huntersville, North Carolina. Dichlorodifluoromethane, chloromethane, trichlorofluoromethane, methylene chloride, chloroform, 1,1,1-trichloroethane, and tetrachloroethene concentrations were detected above the method detection limits. Results of the laboratory analysis are summarized in Table 3. The complete laboratory report is included in Appendix B.

Based on the emissions and monitoring data recorded, the quantity of product recovered can be estimated. The concentration of total hydrocarbons detected in the system exhaust on June 20, 2003 was 150 parts per billion. The estimated density of the hydraulic oil is 0.877 kilograms per liter. Assuming the concentrations and flow rate were constant over the period that the system was operational (November 26, 2002 to June 20, 2003), the mass of hydrocarbons removed through June 20, 2003 would be approximately 1,552 pounds.

On January 31, February 25, March 19, April 21, May 20, and June 20, 2003, Trigon performed routine maintenance of the SVE/bio-venting system. The oil for the blower was changed and fittings were greased. Also, the moisture separator was drained and the particulate filter and belts were inspected.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The SVE/bio-venting system has been operational since November 26, 2002. Based on the measurements recorded and samples of the exhaust, the SVE/bio-venting system remains effective in removing contaminants from subsurface soil at the site.

Trigon recommends sampling the SVE/bio-venting system exhaust on a quarterly schedule. Based on the Operation and Maintenance Manual, minor routine maintenance should be conducted once each month. Trigon has proposed to collect system monitoring data each month during regular maintenance trips to the site. A Pre-Approval Task Authorization form is attached for the third quarter of Corrective Action monitoring.

TABLE 1: GROUNDWATER ANALYTICAL RESULTS

Location	EPA Methods 601 and 602* (µg/l)			MADEP EPH/VPH Methods (µg/l)				Metals (µg/l)	
Sampling Date	1,1 Dichloroethane	Tetrachloroethene	1,1,1 Trichloroethane	C ₅ - C ₈ Aliphatics	C ₉ - C ₁₈ Aliphatics	C ₁₉ - C ₃₆ Aliphatics	C ₉ - C ₂₂ Aromatics	Chromium	Lead
NCGWS	700	0.7	200	420	4,200	42,000	210	50	15
MW-1									
06/05/98	2	3	9	10	25	10,000	11	BDL	BDL
10/09/01	8.5	BDL	25	BDL	BDL	BDL	NA	NA	NA
11/19/02	4.4	BDL	19	BDL	BDL	600	BDL	NA	NA
02/25/03	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA
06/20/03	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA
MW-2									
11/24/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10/09/01	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA
MW-3									
12/01/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	18	BDL
MW-4									
11/24/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-5									
11/24/98	BDL	BDL	4.8	BDL	BDL	BDL	BDL	BDL	BDL
MW-6									
11/24/98	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
P-1									
11/24/98	0.7	BDL	3.5	BDL	BDL	BDL	BDL	40	BDL
10/09/01	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	NA
Notes:									
* Volatile organic compound analysis by EPA Method 6210D for samples collected in 1998.									
µg/l = micrograms per liter, analogous to parts per billion									
BOLD - Concentration exceeds the 2L Groundwater Quality Standards									
2L Standards - Title 15A North Carolina Administrative Code, Subchapter 2L Quality Standards for Class GA Groundwater									
BDL = Below Laboratory Detection Limits									

TABLES

TABLE 2: BIO-VENTING SYSTEM OPERATIONAL DATA SUMMARY

Monitoring Event Date	Vacuum (" water)					Flow Velocity (fpm)	Flow Rate (acfm)	Exhaust Temp (°F)
	System SVE Blower	Venting Wells						
		VW-1	VW-2	VW-3	VW-4			
12/19/02	92	77	75	78	75	5,400	120	135
01/31/03	94	78	80	79	76	5,400	120	125
02/25/03	94	79	80	78	76	5,400	120	135
03/19/03	90	79	80	80	78	5,400	120	148
04/21/03	96	80	78	78	82	5,400	120	150
05/20/03	98	84	84	84	82	5,200	115	158
06/20/03	96	84	86	84	82	5,400	120	175

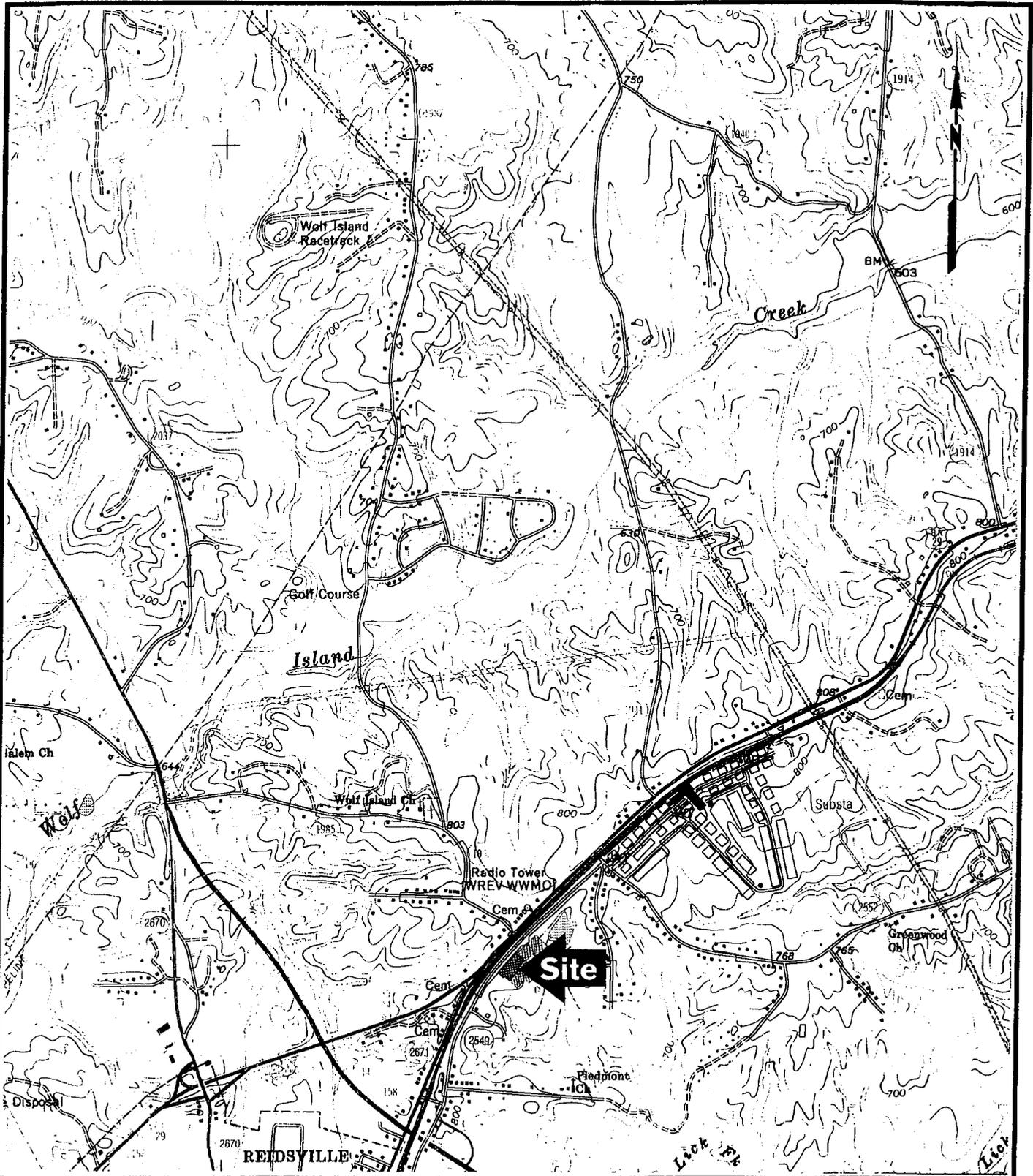
NOTES:
 " water - inches of water column
 acfm - actual cubic feet per minute
 fpm - feet per minute

TABLE 3: SVE/BIO-VENTING SYSTEM

Sample Collection Date	Parameters		OVA Reading (ppmv)	Estimated Mass of Removed Hydrocarbons (lbs)
Parameter	Dichlorodifluor	Chlorom		
MDL	0.67	0.6	1.0	—
12/19/02	ND	NE	<1.0	223
03/19/03	ND	NE	<1.0	1,400
6/20/2003	0.82	0.6	<1.0	1,552

Notes:
 ND - Not Detected
 MDL - Method Detection Limit
 ppmv - parts per million volumetric
 ppbv - parts per billion volumetric
 lbs - pounds
 NA - Not Analyzed

DRAWINGS



SCALE:
1" = 2000'

DATE:
07/02/03

APPROVED BY:
CWL

SOURCE:
USGS

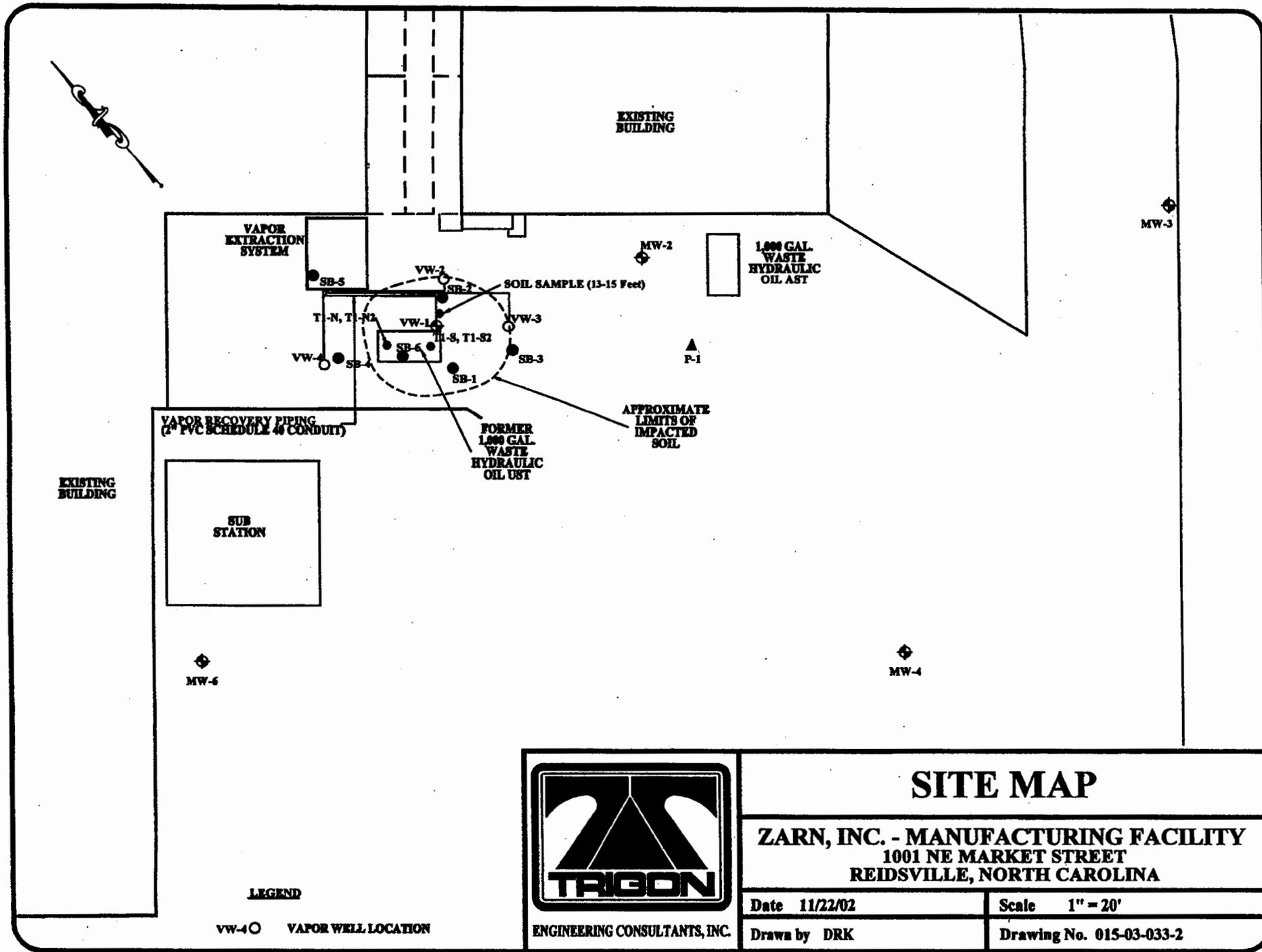
Zarn, Inc. - Manufacturing Facility
1001 Northeast Market Street Extension
Reidsville, North Carolina

1971 USGS Topographic Map (Revised 1994)
Southeast Eden Quadrangle

DRAWING NUMBER:
015-03-033-1



Trigon Engineering Consultants, Inc.
Greensboro North Carolina



LEGEND

VW-4 ○ VAPOR WELL LOCATION



ENGINEERING CONSULTANTS, INC.

SITE MAP

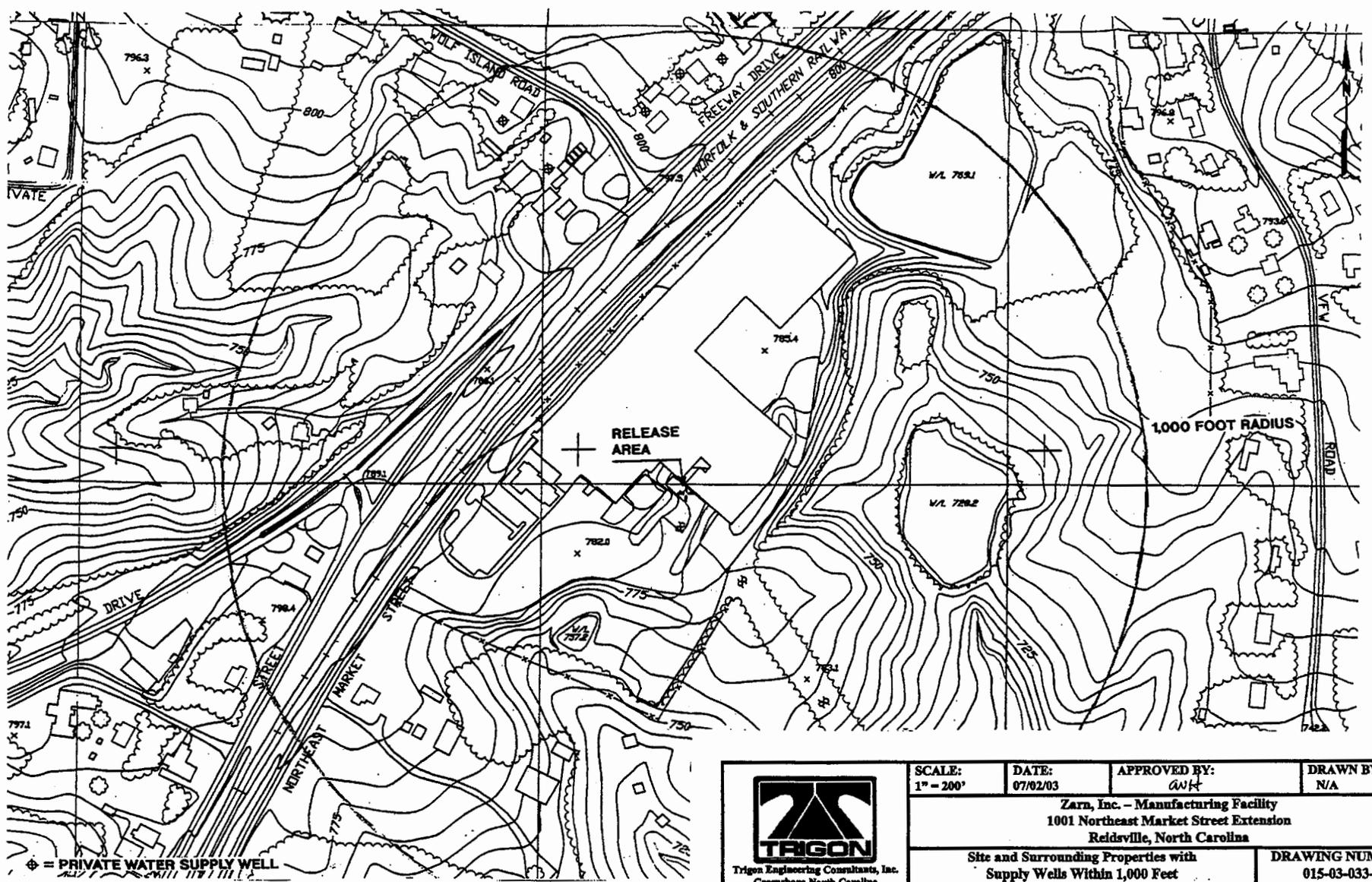
ZARN, INC. - MANUFACTURING FACILITY
 1001 NE MARKET STREET
 REIDSVILLE, NORTH CAROLINA

Date 11/22/02

Scale 1" = 20'

Drawn by DRK

Drawing No. 015-03-033-2



SCALE: 1" = 200'	DATE: 07/02/03	APPROVED BY: ANT	DRAWN BY: N/A
Zarn, Inc. - Manufacturing Facility 1001 Northeast Market Street Extension Reidsville, North Carolina			
Site and Surrounding Properties with Supply Wells Within 1,000 Feet			DRAWING NUMBER: 015-03-033-3

APPENDIX A



Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

June 30, 2003

Mr. Chris Hay
Trigon Engineering Consultants
313 Gallimore Dairy Rd
Greensboro, NC 27409

RE: Lab Project Number: 9246099
Client Project ID: Zarn Inc./015-03-033

Dear Mr. Hay:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Bonnie Kamla
Bonnie.Kamla@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Sample No: 923078067
Client Sample ID: MW-1

Project Sample Number: 9246099-001
Matrix: Water

Date Collected: 06/20/03 15:40
Date Received: 06/21/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
------------	---------	-------	--------------	----	----------	----	---------	------	--------

GC Semivolatiles

EPH in Water by Mass. Method		Prep/Method: EPA 3510 / EPH							
Aliphatic (C09-C18)	ND	ug/l	100		1.0	06/26/03		KAP	
Aliphatic (C19-C36)	ND	ug/l	100		1.0	06/26/03		KAP	
Aromatic (C11-22)	ND	ug/l	100		1.0	06/26/03		KAP	
Total Petroleum Hydrocarbons	ND	ug/l	300		1.0	06/26/03		KAP	
Nonatriacontane (S)	60	%			1.0	06/26/03		KAP	7194-86-7
o-Terphenyl (S)	51	%			1.0	06/26/03		KAP	84-15-1
Date Extracted	06/25/03				06/25/03				

VPH in Water by Mass. Method		Method: VPH							
Aliphatic (C05-C08)	ND	ug/l	100		1.0	06/24/03	16:08	KSB	
Aliphatic (C09-C12)	ND	ug/l	100		1.0	06/24/03	16:08	KSB	
Aromatic (C09-C10)	ND	ug/l	100		1.0	06/24/03	16:08	KSB	
2,5-Dibromotoluene (FID)(S)	90	%			1.0	06/24/03	16:08	KSB	
2,5-Dibromotoluene (PID)(S)	74	%			1.0	06/24/03	16:08	KSB	

GC Volatiles

Halogen. & Aromatic Vol. Orgs.		Method: EPA 601/602							
Dichlorodifluoromethane	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	75-71-8
Chloromethane	ND	ug/l	2.0		1.0	06/24/03	06:02	PPM	74-87-3
Vinyl chloride	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	75-01-4
Bromomethane	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	74-83-9
Chloroethane	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	75-00-3
Trichlorofluoromethane	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	75-69-4
1,1-Dichloroethene	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	75-35-4
Methylene chloride	ND	ug/l	2.0		1.0	06/24/03	06:02	PPM	75-09-2
trans-1,2-Dichloroethene	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	156-60-5
1,1-Dichloroethane	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	75-34-3
Chloroform	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	67-66-3
1,1,1-Trichloroethane	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	71-55-6
Carbon tetrachloride	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	56-23-5
1,2-Dichloroethane	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	107-06-2
Trichloroethene	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	79-01-6
1,2-Dichloropropane	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	78-87-5
Bromodichloromethane	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	75-27-4
cis-1,3-Dichloropropene	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	10061-01-5
trans-1,3-Dichloropropene	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	10061-02-6
1,1,2-Trichloroethane	ND	ug/l	1.0		1.0	06/24/03	06:02	PPM	79-00-5

Date: 06/30/03

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REPORT OF LABORATORY ANALYSIS

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NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648



Charlotte Certification IDs

NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Lab Sample No: 923078067
Client Sample ID: MW-1

Project Sample Number: 9246099-001
Matrix: Water

Date Collected: 06/20/03 15:40
Date Received: 06/21/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	Req/Lmt
Tetrachloroethene	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	127-18-4		
Dibromochloromethane	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	124-48-1		
Bromoform	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	75-25-2		
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	79-34-5		
Methyl-tert-butyl ether	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	1634-04-4		
Diisopropyl ether	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	108-20-3		
Benzene	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	71-43-2		
Toluene	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	108-88-3		
Chlorobenzene	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	108-90-7		
Ethylbenzene	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	100-41-4		
m&p-Xylene	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM			
o-Xylene	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	95-47-6		
1,3-Dichlorobenzene	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	541-73-1		
1,4-Dichlorobenzene	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	106-46-7		
1,2-Dichlorobenzene	ND	ug/l	1.0	1.0	06/24/03 06:02	PPM	95-50-1		
1-Chloro-3-fluorobenzene (S)	109	x		1.0	06/24/03 06:02	PPM	625-98-9		

Date: 06/30/03

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NC Drinking Water 37706
SC 99006
FL NELAP E87627

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Inorganic Wet Chemistry Analyses were performed at our Pace Asheville laboratory and Organic and Metals testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
(S) Surrogate

Date: 06/30/03

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REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
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SC 99006
FL NELAP E87627

QUALITY CONTROL DATA

Lab Project Number: 9246099
Client Project ID: Zarn Inc./015-03-033

METHOD BLANK: 923079008
Associated Lab Samples: 923078067

Parameter	Units	Blank Result	Reporting Limit	Footnotes
o-Xylene	ug/l	ND	1.0	
1,3-Dichlorobenzene	ug/l	ND	1.0	
1,4-Dichlorobenzene	ug/l	ND	1.0	
1,2-Dichlorobenzene	ug/l	ND	1.0	
1-Chloro-3-fluorobenzene (S)	%	113		

LABORATORY CONTROL SAMPLE: 923079016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Dichlorodifluoromethane	ug/l	20.00	22.48	112	
Chloromethane	ug/l	20.00	27.99	140	
Vinyl chloride	ug/l	20.00	21.29	106	
Bromomethane	ug/l	20.00	24.20	121	
Chloroethane	ug/l	20.00	23.90	120	
Trichlorofluoromethane	ug/l	20.00	20.69	103	
1,1-Dichloroethene	ug/l	20.00	21.15	106	
Methylene chloride	ug/l	20.00	20.35	102	
trans-1,2-Dichloroethene	ug/l	20.00	20.49	102	
1,1-Dichloroethane	ug/l	20.00	19.91	100	
Chloroform	ug/l	20.00	19.24	96	
1,1,1-Trichloroethane	ug/l	20.00	18.12	91	
Carbon tetrachloride	ug/l	20.00	18.68	93	
1,2-Dichloroethane	ug/l	20.00	19.49	98	
Trichloroethene	ug/l	20.00	22.09	110	
1,2-Dichloropropane	ug/l	20.00	19.37	97	
Bromodichloromethane	ug/l	20.00	18.18	91	
cis-1,3-Dichloropropene	ug/l	20.00	20.10	101	
trans-1,3-Dichloropropene	ug/l	20.00	19.61	98	
1,1,2-Trichloroethane	ug/l	20.00	21.47	107	
Tetrachloroethene	ug/l	20.00	22.28	111	
Dibromochloromethane	ug/l	20.00	20.56	103	
Bromoform	ug/l	20.00	20.68	103	
1,1,2,2-Tetrachloroethane	ug/l	20.00	22.64	113	
Methyl-tert-butyl ether	ug/l	20.00	20.89	104	

Date: 06/30/03

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9246099
Client Project ID: Zarn Inc./015-03-033

LABORATORY CONTROL SAMPLE: 923079016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Diisopropyl ether	ug/l	20.00	20.56	103	
Benzene	ug/l	20.00	20.15	101	
Toluene	ug/l	20.00	20.21	101	
Chlorobenzene	ug/l	20.00	23.39	117	
Ethylbenzene	ug/l	20.00	19.25	96	
m&p-Xylene	ug/l	40.00	38.59	96	
o-Xylene	ug/l	20.00	19.61	98	
1,3-Dichlorobenzene	ug/l	20.00	22.17	111	
1,4-Dichlorobenzene	ug/l	20.00	21.01	105	
1,2-Dichlorobenzene	ug/l	20.00	21.24	106	
1-Chloro-3-fluorobenzene (S)				102	

MATRIX SPIKE: 923079024

Parameter	Units	923067672 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Dichlorodifluoromethane	ug/l	0	20.00	26.32	132	
Chloromethane	ug/l	0	20.00	30.66	153	
Vinyl chloride	ug/l	0	20.00	25.83	129	
Bromomethane	ug/l	0	20.00	27.14	136	
Chloroethane	ug/l	0	20.00	26.08	130	
Trichlorofluoromethane	ug/l	0	20.00	25.06	125	
1,1-Dichloroethene	ug/l	0	20.00	25.73	129	
Methylene chloride	ug/l	0	20.00	21.81	109	
trans-1,2-Dichloroethene	ug/l	0	20.00	24.13	121	
1,1-Dichloroethane	ug/l	0	20.00	24.08	120	
Chloroform	ug/l	0	20.00	23.25	116	
1,1,1-Trichloroethane	ug/l	0	20.00	24.46	122	
Carbon tetrachloride	ug/l	0	20.00	24.68	123	
1,2-Dichloroethane	ug/l	0	20.00	22.81	114	
Trichloroethene	ug/l	0	20.00	22.38	112	
1,2-Dichloropropane	ug/l	0	20.00	23.35	117	
Bromodichloromethane	ug/l	0	20.00	22.07	110	
cis-1,3-Dichloropropene	ug/l	0	20.00	18.44	92	
trans-1,3-Dichloropropene	ug/l	0	20.00	21.38	107	
1,1,2-Trichloroethane	ug/l	0	20.00	24.47	122	

Date: 06/30/03

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9246099
Client Project ID: Zarn Inc./015-03-033

MATRIX SPIKE: 923079024

Parameter	Units	923067672	Spike	MS	MS	Footnotes
		Result	Conc.	Result	% Rec	
Tetrachloroethene	ug/l	0	20.00	27.00	135	
Dibromochloromethane	ug/l	0	20.00	22.27	111	
Bromoform	ug/l	0	20.00	22.11	110	
1,1,2,2-Tetrachloroethane	ug/l	0	20.00	22.95	115	
Methyl-tert-butyl ether	ug/l	0	20.00	19.69	98	
Diisopropyl ether	ug/l	0	20.00	19.55	98	
Benzene	ug/l	0	20.00	19.90	100	
Toluene	ug/l	0	20.00	19.67	98	
Chlorobenzene	ug/l	0	20.00	26.42	132	
Ethylbenzene	ug/l	0	20.00	18.62	93	
m&p-Xylene	ug/l	0	40.00	36.76	92	
o-Xylene	ug/l	0	20.00	18.73	94	
1,3-Dichlorobenzene	ug/l	0	20.00	22.77	114	
1,4-Dichlorobenzene	ug/l	0	20.00	20.97	105	
1,2-Dichlorobenzene	ug/l	0	20.00	20.82	104	
1-Chloro-3-fluorobenzene (S)					119	

MATRIX SPIKE: 923079446

Parameter	Units	923068340	Spike	MS	MS	Footnotes
		Result	Conc.	Result	% Rec	
Dichlorodifluoromethane	ug/l	0	20.00	25.03	125	
Chloromethane	ug/l	0	20.00	25.82	129	
Vinyl chloride	ug/l	0	20.00	24.22	121	
Bromomethane	ug/l	0	20.00	21.25	106	
Chloroethane	ug/l	0	20.00	25.39	127	
Trichlorofluoromethane	ug/l	0	20.00	23.86	119	
1,1-Dichloroethene	ug/l	0	20.00	24.93	125	
Methylene chloride	ug/l	0	20.00	22.06	110	
trans-1,2-Dichloroethene	ug/l	0	20.00	23.66	118	
1,1-Dichloroethane	ug/l	0	20.00	23.28	116	
Chloroform	ug/l	0	20.00	22.44	112	
1,1,1-Trichloroethane	ug/l	0	20.00	22.23	111	
Carbon tetrachloride	ug/l	0	20.00	22.03	110	
1,2-Dichloroethane	ug/l	1.473	20.00	23.70	111	
Trichloroethene	ug/l	0	20.00	23.61	118	

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

QUALITY CONTROL DATA

Lab Project Number: 9246099
Client Project ID: Zarn Inc./015-03-033

MATRIX SPIKE: 923079446

Parameter	Units	923068340	Spike	MS	MS	Footnotes
		Result	Conc.	Result	% Rec	
1,2-Dichloropropane	ug/l	0	20.00	20.98	105	
Bromodichloromethane	ug/l	0	20.00	20.18	101	
cis-1,3-Dichloropropene	ug/l	0	20.00	19.82	99	
trans-1,3-Dichloropropene	ug/l	0	20.00	19.50	98	
1,1,2-Trichloroethane	ug/l	0	20.00	21.45	107	
Tetrachloroethene	ug/l	0	20.00	22.14	111	
Dibromochloromethane	ug/l	0	20.00	20.40	102	
Bromoform	ug/l	0	20.00	20.05	100	
1,1,1,2-Tetrachloroethane	ug/l	0	20.00	22.62	113	
Methyl-tert-butyl ether	ug/l	0	20.00	21.31	107	
Diisopropyl ether	ug/l	0	20.00	20.58	103	
Benzene	ug/l	0	20.00	19.84	99	
Toluene	ug/l	0	20.00	19.91	100	
Chlorobenzene	ug/l	0	20.00	22.73	114	
Ethylbenzene	ug/l	0	20.00	18.80	94	
m&p-Xylene	ug/l	0	40.00	37.51	94	
o-Xylene	ug/l	0	20.00	18.62	93	
1,3-Dichlorobenzene	ug/l	0	20.00	20.96	105	
1,4-Dichlorobenzene	ug/l	0	20.00	20.20	101	
1,2-Dichlorobenzene	ug/l	0	20.00	20.71	104	
1-Chloro-3-fluorobenzene (S)					101	

SAMPLE DUPLICATE: 923079453

Parameter	Units	923078067	DUP	RPD	Footnotes
		Result	Result		
Dichlorodifluoromethane	ug/l	ND	ND	NC	
Chloromethane	ug/l	ND	ND	NC	
Vinyl chloride	ug/l	ND	ND	NC	
Bromomethane	ug/l	ND	ND	NC	
Chloroethane	ug/l	ND	ND	NC	
Trichlorofluoromethane	ug/l	ND	ND	NC	
1,1-Dichloroethene	ug/l	ND	ND	NC	
Methylene chloride	ug/l	ND	ND	NC	
trans-1,2-Dichloroethene	ug/l	ND	ND	NC	
1,1-Dichloroethane	ug/l	ND	ND	NC	

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627



Pace Analytical Services, Inc.
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

QUALITY CONTROL DATA

CROSS REFERENCE TABLE

Lab Project Number: 1074510
Client Project ID: 9246100 TRIGON

Lab Sample No Identifier	Client Sample Identifier	QC Batch Method	QC Batch Identifier	Analytical Method	Analytical Batch Identifier
923078075	SVE EXHAUST	TO-14 Ambient Air	92830		

Date: 07/03/03

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Phone: 612.607.1700
Fax: 612.607.6444

Lab Project Number: 1074510
Client Project ID: 9246100 TRIGON

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

- LCS(D) Laboratory Control Sample (Duplicate)
- MS(D) Matrix Spike (Duplicate)
- DUP Sample Duplicate
- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- RPD Relative Percent Difference

Date: 07/03/03

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QUALITY CONTROL DATA

Lab Project Number: 1074510
Client Project ID: 9246100 TRIGON

LABORATORY CONTROL SAMPLE: 104657051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
1,1,2-Trichloroethane	ppbv	8.700	9.205	106	
1,2-Dibromoethane (EDB)	ppbv	8.600	9.038	105	
Tetrachloroethene	ppbv	9.300	9.212	99	
Chlorobenzene	ppbv	8.900	9.491	107	
Ethylbenzene	ppbv	8.600	9.805	114	
m,p-Xylene	ppbv	16.80	18.35	109	
o-Xylene	ppbv	7.900	8.501	108	
Styrene	ppbv	7.500	7.034	94	
1,1,2,2-Tetrachloroethane	ppbv	7.200	7.812	108	
1,3,5-Trimethylbenzene	ppbv	6.000	5.711	95	
1,2,4-Trimethylbenzene	ppbv	5.500	5.275	96	
1,3-Dichlorobenzene	ppbv	5.700	6.299	111	
1,4-Dichlorobenzene	ppbv	5.600	6.059	108	
1,2-Dichlorobenzene	ppbv	5.000	5.713	114	
1,2,4-Trichlorobenzene	ppbv	3.500	3.604	103	
Hexachloro-1,3-butadiene	ppbv	4.400	4.174	95	

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QUALITY CONTROL DATA

Lab Project Number: 1074510
 Client Project ID: 9246100 TRIGON

METHOD BLANK: 104657044
 Associated Lab Samples: 923078075

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
1,3,5-Trimethylbenzene	ppbv	ND	0.48	
1,2,4-Trimethylbenzene	ppbv	ND	0.48	
1,3-Dichlorobenzene	ppbv	ND	0.30	
1,4-Dichlorobenzene	ppbv	ND	0.30	
1,2-Dichlorobenzene	ppbv	ND	0.48	
1,2,4-Trichlorobenzene	ppbv	ND	0.21	
Hexachloro-1,3-butadiene	ppbv	ND	0.24	
THC as Gas	ppbv	ND	20.	

LABORATORY CONTROL SAMPLE: 104657051

Parameter	Units	Spike	LCS	LCS	Footnotes
		Conc.	Result	% Rec	
Dichlorodifluoromethane	ppbv	9.400	9.741	104	
Chloromethane	ppbv	8.600	9.223	107	
Dichlorotetrafluoroethane	ppbv	9.600	9.996	104	
Vinyl chloride	ppbv	9.800	10.35	106	
Bromomethane	ppbv	9.400	9.658	103	
Chloroethane	ppbv	10.00	10.91	109	
Trichlorofluoromethane	ppbv	8.500	8.766	103	
1,1-Dichloroethene	ppbv	10.40	10.90	105	
1,1,2-Trichlorotrifluoroethane	ppbv	9.800	10.07	103	
Methylene chloride	ppbv	10.90	11.75	108	
1,1-Dichloroethane	ppbv	10.10	10.63	105	
cis-1,2-Dichloroethene	ppbv	10.00	10.70	107	
Chloroform	ppbv	9.200	9.528	104	
1,1,1-Trichloroethane	ppbv	9.200	9.443	103	
1,2-Dichloroethane	ppbv	9.500	10.13	107	
Benzene	ppbv	9.100	9.784	108	
Carbon tetrachloride	ppbv	9.100	7.336	81	
1,2-Dichloropropane	ppbv	9.600	10.44	109	
Trichloroethane	ppbv	10.10	10.39	103	
cis-1,3-Dichloropropene	ppbv	9.400	10.87	116	
trans-1,3-Dichloropropene	ppbv	9.000	10.27	114	
Toluene	ppbv	9.700	10.81	111	

Date: 07/03/03

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Phone: 612.607.1700
Fax: 612.607.6444

Lab Project Number: 1074510
Client Project ID: 9246100 TRIGON

PARAMETER FOOTNOTES

- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit

Date: 07/03/03

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Phone: 612.607.1700
Fax: 612.607.6444

Lab Project Number: 1074510
Client Project ID: 9246100 TRIGON

Lab Sample No: 923078075 Project Sample Number: 1074510-001 Date Collected: 06/20/03 14:35
Client Sample ID: SVE EXHAUST Matrix: Air Date Received: 06/21/03 09:20

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLat
Hexachloro-1,3-butadiene	ND	ppbv	0.32	07/02/03 15:32	MTG	87-68-3		
THC as Gas	150	ppbv	27.	07/02/03 15:32	MTG			

Date: 07/03/03

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 Phone: 612.607.1700
 Fax: 612.607.6444

Lab Project Number: 1074510
 Client Project ID: 9246100 TRIGON

Lab Sample No: 923078075 Project Sample Number: 1074510-001 Date Collected: 06/20/03 14:35
 Client Sample ID: SVE EXHAUST Matrix: Air Date Received: 06/21/03 09:20

Parameters Results Units Report Limit Analyzed By CAS No. Qual RegLat

Air

GC/MS VOCs, in Air Method: TO-14 Ambient Air

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLat
Dichlorodifluoromethane	0.82	ppbv	0.67	07/02/03 15:32	MTG	75-71-8		
Chloromethane	0.65	ppbv	0.64	07/02/03 15:32	MTG	74-87-3		
Dichlorotetrafluoroethane	ND	ppbv	0.76	07/02/03 15:32	MTG	76-14-2		
Vinyl chloride	ND	ppbv	0.67	07/02/03 15:32	MTG	75-01-4		
Bromomethane	ND	ppbv	0.67	07/02/03 15:32	MTG	74-83-9		
Chloroethane	ND	ppbv	0.67	07/02/03 15:32	MTG	75-00-3		
Trichlorofluoromethane	0.93	ppbv	0.70	07/02/03 15:32	MTG	75-69-4		
1,1-Dichloroethene	ND	ppbv	0.64	07/02/03 15:32	MTG	75-35-4		
1,1,2-Trichlorotrifluoroethane	ND	ppbv	0.71	07/02/03 15:32	MTG	76-13-1		
Methylene chloride	9.1	ppbv	0.67	07/02/03 15:32	MTG	75-09-2		
1,1-Dichloroethane	ND	ppbv	0.64	07/02/03 15:32	MTG	75-34-3		
cis-1,2-Dichloroethene	ND	ppbv	0.64	07/02/03 15:32	MTG	156-59-2		
Chloroform	6.0	ppbv	0.64	07/02/03 15:32	MTG	67-66-3		
1,1,1-Trichloroethane	1.6	ppbv	0.58	07/02/03 15:32	MTG	71-55-6		
1,2-Dichloroethane	ND	ppbv	0.54	07/02/03 15:32	MTG	107-06-2		
Benzene	ND	ppbv	0.58	07/02/03 15:32	MTG	71-43-2		
Carbon tetrachloride	ND	ppbv	0.56	07/02/03 15:32	MTG	56-23-5		
1,2-Dichloropropane	ND	ppbv	0.50	07/02/03 15:32	MTG	78-87-5		
Trichloroethene	ND	ppbv	0.55	07/02/03 15:32	MTG	79-01-6		
cis-1,3-Dichloropropene	ND	ppbv	0.80	07/02/03 15:32	MTG	10061-01-5		
trans-1,3-Dichloropropane	ND	ppbv	0.67	07/02/03 15:32	MTG	10061-02-6		
Toluene	ND	ppbv	0.64	07/02/03 15:32	MTG	108-88-3		
1,1,2-Trichloroethane	ND	ppbv	0.59	07/02/03 15:32	MTG	79-00-5		
1,2-Dibromoethane (EDB)	ND	ppbv	0.58	07/02/03 15:32	MTG	106-93-4		
Tetrachloroethene	1.5	ppbv	0.64	07/02/03 15:32	MTG	127-18-4		
Chlorobenzene	ND	ppbv	0.56	07/02/03 15:32	MTG	108-90-7		
Ethylbenzene	ND	ppbv	0.56	07/02/03 15:32	MTG	100-41-4		
m,p-Xylene	ND	ppbv	1.1	07/02/03 15:32	MTG			
o-Xylene	ND	ppbv	0.51	07/02/03 15:32	MTG	95-47-6		
Styrene	ND	ppbv	0.54	07/02/03 15:32	MTG	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ppbv	0.54	07/02/03 15:32	MTG	79-34-5		
1,3,5-Trimethylbenzene	ND	ppbv	0.64	07/02/03 15:32	MTG	108-67-8		
1,2,4-Trimethylbenzene	ND	ppbv	0.64	07/02/03 15:32	MTG	95-63-6		
1,3-Dichlorobenzene	ND	ppbv	0.40	07/02/03 15:32	MTG	541-73-1		
1,4-Dichlorobenzene	ND	ppbv	0.40	07/02/03 15:32	MTG	106-46-7		
1,2-Dichlorobenzene	ND	ppbv	0.64	07/02/03 15:32	MTG	95-50-1		
1,2,4-Trichlorobenzene	ND	ppbv	0.28	07/02/03 15:32	MTG	120-82-1		

Date: 07/03/03

Page: 1 of 8



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9800 Kinsey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

July 03, 2003

Mr. Chris Hay
Trigon Engineering Consultants
313 Gallimore Dairy Rd
Greensboro, NC 27409

RE: Lab Project Number: 9246100
Client Project ID: Zarn, Inc./015-03-033

Dear Mr. Hay:

Enclosed are the analytical results for sample(s) received by the laboratory on June 21, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Bonnie Kamla
Bonnie.Kamla@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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Asheville Certification IDs

NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648



Charlotte Certification IDs

NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP F87627

APPENDIX B

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical®

www.pacelabs.com

744422

Required Client Information: Section A

Company: _____

Address: _____

Phone: _____ Fax: _____

Required Client Information: Section B

Report To: _____

Copy To: _____

Invoice To: _____

P.O.: _____

Project Name: _____

Project Number: _____

Page: 1 of 1

To Be Completed by Pace Analytical and Client Section C

Quote Reference: _____

Project Manager: _____

Project #: 9246099

Profile #: _____

Requested Analyte: _____

ITEM #	Section D Required Client Information:										DATE COLLECTED mm / dd / yy	TIME COLLECTED hh: mm a/p	# Containers	Preservatives							REMARKS / Lab ID		
	SAMPLE ID													MATRIX CODE	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃		Methanol	Other
	One character per box. (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE																						
1																				923078067			
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

SHIPMENT METHOD	AIRBILL NO.	SHIPPING DATE	NO. OF COOLERS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME

SAMPLE CONDITION

Temp in °C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

DATE Signed: (MM / DD / YY) _____

Additional Comments:

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

- LCS(D) Laboratory Control Sample (Duplicate)
- MS(D) Matrix Spike (Duplicate)
- DUP Sample Duplicate
- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- RPD Relative Percent Difference
- (S) Surrogate

Date: 06/30/03

Page: 12 of 12

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FL NELAP E87648

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NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9800 Kinsey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9246099
Client Project ID: Zarn Inc./015-03-033

SAMPLE DUPLICATE: 923079453

Parameter	Units	923078067	DUP	RPD	Footnotes
		Result	Result		
Chloroform	ug/l	ND	ND	NC	
1,1,1-Trichloroethane	ug/l	ND	ND	NC	
Carbon tetrachloride	ug/l	ND	ND	NC	
1,2-Dichloroethane	ug/l	ND	ND	NC	
Trichloroethene	ug/l	ND	ND	NC	
1,2-Dichloropropane	ug/l	ND	ND	NC	
Bromodichloromethane	ug/l	ND	ND	NC	
cis-1,3-Dichloropropene	ug/l	ND	ND	NC	
trans-1,3-Dichloropropene	ug/l	ND	ND	NC	
1,1,2-Trichloroethane	ug/l	ND	ND	NC	
Tetrachloroethene	ug/l	ND	ND	NC	
Dibromochloromethane	ug/l	ND	ND	NC	
Bromoform	ug/l	ND	ND	NC	
1,1,2,2-Tetrachloroethane	ug/l	ND	ND	NC	
Methyl-tert-butyl ether	ug/l	ND	ND	NC	
Diisopropyl ether	ug/l	ND	ND	NC	
Benzene	ug/l	ND	ND	NC	
Toluene	ug/l	ND	ND	NC	
Chlorobenzene	ug/l	ND	ND	NC	
Ethylbenzene	ug/l	ND	ND	NC	
m&p-Xylene	ug/l	ND	ND	NC	
o-Xylene	ug/l	ND	ND	NC	
1,3-Dichlorobenzene	ug/l	ND	ND	NC	
1,4-Dichlorobenzene	ug/l	ND	ND	NC	
1,2-Dichlorobenzene	ug/l	ND	ND	NC	
1-Chloro-3-fluorobenzene (S)	x	109	109		

Date: 06/30/03

Page: 11 of 12

REPORT OF LABORATORY ANALYSIS

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Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

Robbins, Susanne

From: Robbins, Susanne
Sent: Thursday, February 02, 2012 1:51 PM
To: Day, Collin
Subject: complaint issue

Hey Collin,

Sounds like Vince is taking over the well sampling, I just sent him all the information. I am still following up with the UST information. Also, is there a surface water contact there? Let me know who the best contact is. I think a pond sample would be helpful.

Thanks

Sue Robbins, Hydrogeologist
IHSB, Superfund Section
NC Division of Waste Management
Wilmington Regional Office
(910) 796-7411

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.



Robbins, Susanne

From: Robbins, Susanne
Sent: Thursday, February 02, 2012 1:46 PM
To: Antrilli, Vincent
Subject: FW: Citizen Call Regarding Neighborhood Exposure Concerns and Cancer Related Deaths
Attachments: reidsville.tif

Vince,

I have attached the emails, and some "site" information. The "site" or probable RP is A&A Real Estate Services located at 1001 NE Market Street, Reidsville. The original company was Zarn Industries who sold it to Daikon Molding and Daikon changed their name to A&A Real Estate. The complainant, MR. Law and the other concerned citizens live down VFW Road behind the "site". I spoke with Mr. Law yesterday and he indicated that the neighbors are all on well water and have been filtering water or drinking bottled water for some time due to the smell and taste of the well water. He indicated that the water had a metal taste. Mr. Law also indicated that the pond used for discharge was often a strange blue color and that the company told them they could fish in the pond but not to eat the fish because it was contaminated. The pond used for discharge was the pond at the farthest north and to the east of the plant building. There are several other ponds downstream from this pond. Mr. Law indicated that he would be glad to contact the neighbors or provide information for the sampling of the wells.

As I mentioned on the phone, Bob Jones with Rockingham County is more than willing to help sample. Mr. Jones' contact information is bobjones@co.rockingham.nc.us and 336-342-8179. Mr. Jones is researching the surrounding area for water supply wells as well.

I am still working on gathering additional information from the UST and Surface Water Sections and will let you if I find out anything related to the well sampling.

Thanks,

Sue Robbins, Hydrogeologist
IHSB, Superfund Section
NC Division of Waste Management
Wilmington Regional Office
(910) 796-7411

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Walch, John
Sent: Tuesday, January 31, 2012 3:33 PM
To: Robbins, Susanne
Subject: FW: Citizen Call Regarding Neighborhood Exposure Concerns and Cancer Related Deaths

Sue –

Here is a new site that came up today. (I don't think a site visit will be necessary.) Please review the info and see and contact Collin to see if the County can sample these wells. If they can't do it within the next few weeks, let's check with Vince or S&ME so we get some sampling done before the end of February if possible.

Based on what Collin told me on the phone, we may need to do a phased approach to the sampling depending on how many wells are in the area. Sample adjacent & down gradient properties first then expand sampling if we find something. Also, sample any potable wells at the nearby industrial site.

Thanks

John W. Walch
Eastern Unit Supervisor
Inactive Hazardous Sites Branch
NC Division of Waste Management
Superfund Section
(919) 707-8356

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Walch, John
Sent: Tuesday, January 31, 2012 3:12 PM
To: Day, Collin
Subject: RE: Citizen Call Regarding Neighborhood Exposure Concerns and Cancer Related Deaths

Collin-

Can you please follow up with the Rockingham County folks. If they can't sample, we can get Vince or S&ME to do it. Do you know of any incidents in the area?

Thanks

John W. Walch
Eastern Unit Supervisor
Inactive Hazardous Sites Branch
NC Division of Waste Management
Superfund Section
(919) 707-8356

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Day, Collin
Sent: Tuesday, January 31, 2012 2:52 PM
To: Walch, John
Subject: FW: Citizen Call Regarding Neighborhood Exposure Concerns and Cancer Related Deaths

John:

Eric Hudson who was on the phone with me during our call this morning to you, forwarded me the message below from the Reidsville (Rockingham County) resident who phoned the WSRO. We have yet to speak with Ted Nelson who is the Environmental Health Director for the County.

Collin Day
Hydrogeologist
NC DENR Winston-Salem Regional Office
Division of Waste Management, Superfund Section-IHSB
585 Waughtown Street
Winston-Salem, NC 27107
Voice: (336) 771-5281
FAX: (336) 771-4632

From: Hudson, Eric
Sent: Tuesday, January 31, 2012 11:17 AM
To: Day, Collin; tnelson@co.rockingham.nc.us
Cc: Edwards, Lisa; tommy.law@piedmontng.com
Subject: Citizen Call Regarding Neighborhood Exposure Concerns and Cancer Related Deaths

Collin and Ted,

Mr. Tommy Law called me this morning and expressed concern about his parent's neighborhood and possible exposure. Mr. Law's aunt recently passed away (from cancer) and after the funeral the neighbors discussed the high number of cancer related deaths occurring in the neighborhood. Mr. Law indicated there have been ~27 cancer related deaths in the community that lives on V.F.W. Road near Reidsville in Rockingham County. V.F.W Road begins at the intersection of N.E. Market Street and Narrow Gauge Road.

Mr. Law's phone numbers are: 1) 336-402-6364, 2) 336-552-7359, 3) 336-348-6421 (office).

According to Mr. Law:

In the 1970s a company called Zarn Industries use to be located off of N.E. Market Street near the neighborhood (it appears to be ~ 1,000 feet between the company and V.F.W. Road). The company made plastic gas tanks and plastic containers. There was a pond adjacent to the company and the kids from the neighborhood use to fish and swim in. The company advised kids not to eat the fish. The pond's dam failed and the water washed downstream toward a recreational lake. The company closed and several other companies have cycled through the building, which is currently being used as a warehouse.

Mr. Law's parents are Willie and Marie Law and their address is 144 V.F.W. Road, Reidsville, NC 27320 (336-349-8149). He believes most people in the community are on private wells for drinking water.

Because this does not involve a public water supply system, I am forwarding this information to you with the hopes that you will contact Mr. Law and can address his concerns.

Regards,
Eric Hudson

Eric Hudson
Assistant Regional Engineer
NC DENR Winston-Salem Regional Office
Division of Water Resources, Public Water Supply Section
585 Waughtown Street
Winston-Salem, NC 27107
Voice: (336) 771-5070
FAX: (336) 771-4632
Eric.Hudson@NCDENR.gov
<http://www.ncwater.org/pws>

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Robbins, Susanne

From: Bob Jones [bobjones@co.rockingham.nc.us]
Sent: Friday, February 03, 2012 10:00 AM
To: Robbins, Susanne; Day, Collin; Hudson, Eric; Ted Nelson
Subject: Info for Citizen Call
Attachments: Aerial photography Rockingham County.doc; DOC020212.pdf; DOC020212-001.pdf; DOC020212-002.pdf

Hello all,

Ted pulled the file on Zarn and suggested the 3 attachments as good summary info. Let me know if you need more detail.

Also attached are instructions to access our local GIS aerial photography.

The area has an abundance of wells to choose for sample points. City water is available in part of the area around Zarn but is primarily used for fire protection. Most residences have wells. City water is not available on VFW Rd or Wolf Island Rd. Give me the selection criteria and I will start locating sample points.

Hope this is helpful. Let me know how else we can help. Thanks, Bob

--

Bob Jones

Division of Environmental Health Registered Environmental Health Specialist
Rockingham County Department of Public Health Assistant Preparedness Coordinator
336-342-8179, (c) 336-589-5739
bobjones@co.rockingham.nc.us

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Regards,
Eric Hudson

Eric Hudson
Assistant Regional Engineer
NC DENR Winston-Salem Regional Office
Division of Water Resources, Public Water Supply Section
585 Waughtown Street
Winston-Salem, NC 27107
Voice: (336) 771-5070
FAX: (336) 771-4632
Eric.Hudson@NCDENR.gov
<http://www.ncwater.org/pws>

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JUL 08 1997

State of North Carolina
Department of Environment,
Health and Natural Resources
Winston-Salem Regional Office

James B. Hunt, Jr., Governor
Jonathan B. Howes, Secretary



DIVISION OF WATER QUALITY
-- Water Quality Section --

June 30, 1997

CERTIFIED MAIL NUMBER P 536 301 564
RETURN RECEIPT REQUESTED

Mr. Stephen Andrews
Vice President of Finance & Treasurer
ZARN, Inc.
P.O. Box 1350
Reidsville, North Carolina 27323-1350

Dear Mr. Andrews:

**Subject: WATER QUALITY COMPLAINT INVESTIGATION
ZARN, Inc.
NPDES Stormwater Permit NCG050242
NPDES Permit NC0002828
Rockingham County**

This letter is to address the complaint by James Flynt Jr. regarding discharges from your facility onto his property. On June 26, 1997, David Russell and Beth Morton of this office met with James Flynt Jr. and Douglas Canavello of Pyramid Environmental on the property owned by James Flynt to investigate the complaint. After that meeting you accompanied David Russell and Beth Morton on a water quality inspection of ZARN, Inc.

There were two areas of concern resulting from the investigation. The first area was the unloading area for the pellets. When the pellets are unloaded pneumatically, some of them spill onto the ground. During rain events, these pellets are carried to the nearby storm drain which ultimately discharges to Mr. Flynt's property. Inspection of this area revealed that you have already installed screens over the storm drains to control the pellets from leaving your property. Update your Stormwater Pollution Prevention Plan to include what permanent method will be used to control pellets when it is installed. No further actions will be required concerning pellet discharges.

The second area of concern was an unknown discharge from a pipe at the rear of the plant. To comply with your stormwater permit you should investigate the source of this discharge to the best of your ability. It is understood that pesticide used during the past week is thought to have

585 Waughtown Street,
Winston-Salem, North Carolina 27107-2241
Voice 910-771-4600



FAX 910-771-4631
An Equal Opportunity/Affirmative Action Employer
50% recycled/10% post-consumer paper

Stephen Andrews

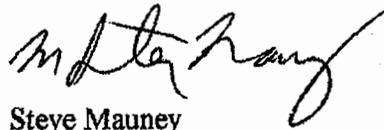
June 30, 1997

Page 2

caused the discharge. Visually or analytically monitor the pipe to determine if any further discharges occur which are not stormwater. Your stormwater permit requires that you observe the pipes, ditches or outfalls leaving the property as necessary to ensure that only stormwater is discharged. Document as necessary if you determine that this discharge enters your property from another source. Notify this department in writing within thirty (30) days of receipt of this letter of the outcome of your stormwater investigation of this discharge and what, if any, measures were taken to eliminate the discharge.

Should you have any questions concerning these matters, please contact David Russell or Beth Morton at (910)771-4600.

Sincerely,



Steve Mauney
Water Quality Supervisor

cc: James E. Flynt Jr AIC, CIC, AAI, AIS
Douglas Canavello, Pyramid Environmental, Inc.
Rockingham County Health Department
Hugh Jernigan, Solid & Hazardous Waste Section
Sherri Knight, Groundwater Section Supervisor
WSRO file
Central file

Rockingham County Department of Public Health

Rockingham County Governmental Center
(336) 342-8140

P.O. Box 204, Wentworth, NC 27375-0204

FAX (336) 342-8356

September 20, 2010

Mr. Gregory Kanellis
Environmental Resources Management
1130 Situs Court, Suite 240
Raleigh, North Carolina 27606

Dear Mr. Kanellis:

Enclosed you will find copies of all the records we could find on the property at 1001 NE Market Street, Reidsville, North Carolina.

The request for information on WEK South Corporation (formally Zarn, Inc. and also known as Plastic Omnium Zarn, Inc. and Diakon Molding, Inc.) has been researched. We found copies of action for a petroleum underground storage tank release - that was labeled a high-risk classification site in 2002 - and became a "No Further Action" site in 2006. There was also a water quality complaint investigation in 1997 about a discharge of plastic pellets, and discharge of a pesticide from a pipe - discharges onto adjacent property of James Flynt, Jr.

The N.C. Department of Environment, Health and Natural Resources filed a notice for non-payment of the NPDES Permit in 1995, and they also had some past notices of violation for State water compliance sampling inspections. This is all we could find for this address and nothing could be located for adjacent property, except for Mr. Flynt.

Copies of these materials are enclosed. If you would like to visit our office and conduct a further search, let us know so we may assist you.

Sincerely,



Talmadge P. Nelson, Jr., REHS
Environmental Health Director
Rockingham County Department of Public Health
P.O. Box 204
Wentworth, North Carolina 27375

Telephone: 336-342-8178
E-mail: tnelson@co.rockingham.nc.us

Cc: Eugene Russell
Tom Robinson
Ginger Waynick





North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor
William G. Ross Jr., Secretary

Division of Waste Management
Underground Storage Tank Section

Dexter R. Matthews, Director

March 7, 2006

Mr. Don Hibbetts
Performance Plastic Prodcut
c/o Christopher Hay
Trigon Engineering Consultants, Inc.
P. O. Box 18846
Greensboro, NC 27409

Re: Notice of No Further Action
15A NCAC 2L .0407(d)
Risk-based Assessment and Corrective Action
for Petroleum Underground Storage Tanks

Zarn, Inc. – Manufacturing Facility
1001 Northeast Market Street Extension,
Reidsville, NC
Rockingham County
Incident Number: 11391
Risk Classification: Low

Dear Mr. Hibbetts:

The Receptor Survey Update and Request for No Further Action received by the Underground Storage Tank (UST) Section, Winston-Salem Regional Office on December 12, 2005, the Notice of Residual Petroleum received on February 27, 2006, and other reports received earlier have been reviewed. The review indicates that soil contamination exceeds the residential maximum soil contaminant concentrations (MSCCs), established in Title 15A NCAC 2L .0411.

The UST Section determines that no further action is warranted for this incident. This determination shall apply unless the UST Section later finds that the discharge or release poses an unacceptable risk or a potentially unacceptable risk to human health or the environment. Pursuant to Title 15A NCAC 2L .0407(a) you have a continuing obligation to notify the Department of any changes that might affect the risk or land use classifications that have been assigned.

Be advised that as soil contamination exceeds the residential MSCCs, the property containing the soil contamination is not suitable for residential use (e.g., homes, schools nursing homes parks, recreation areas, day care centers).

As soil contamination exceeds the residential MSCCs, pursuant to NCGS 143B-279.9 and 143B-279.11, you must file the approved Notice of Residual Petroleum (attached) with the Register of Deeds in the county in which the release is located and submit a certified copy to the UST Section within 30 days of receipt of this letter. This No Further Action determination will not become valid until the UST

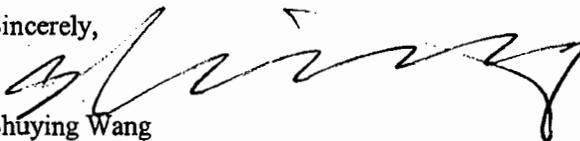
Section receives a certified copy of the Notice of Residual Petroleum which is filed with the Register of Deeds.

As soil contamination exceeds the lower of the soil-to-groundwater or residential MSCCs, public notice in accordance with 15A NCAC 2L .0409(b) also is required. Thus, within 30 days of receipt of this letter, a copy of the letter must be provided by certified mail, or by posting in a prominent place, if certified mail is impractical, to the local health director, the chief administrative officer of each political jurisdiction in which the contamination occurs, all property owners and occupants within or contiguous to the area containing contamination, and all property owners and occupants within or contiguous to the area where the contamination is expected to migrate. Within 60 days of receiving this no further action letter, this office must be provided with proof of receipt of the copy of the letter or of refusal by the addressee to accept delivery of the copy of the letter or with a description of the manner in which the letter was posted. This No Further Action determination will not become valid until public notice requirements are completed. Interested parties may examine the Soil Cleanup Report/ Site Closure Request by contacting this regional office and may submit comments on the site to the regional office at the address or telephone number listed below.

This No Further Action determination applies only to the subject incident; for any other incidents at the subject site, the responsible party must continue to address contamination as required.

If you have any questions regarding this notice, please contact me at the address or telephone number listed below.

Sincerely,



Shuying Wang
Hydrogeologist
Winston-Salem Regional Office

Attachments: Notice of Residual Petroleum

cc: Rockingham County Health Department
WSRO Files

UST Regional Offices

Asheville (ARO) – 2090 US Highway 70, Swannanoa, NC 28778 (828) 296-4500

Fayetteville (FAY) – 225 Green Street, Suite 714, Systel Building, Fayetteville, NC 28301 (910) 486-1541

Mooresville (MOR) – 610 East Center Avenue, Suite 301, Mooresville, NC 28115 (704) 663-1699

Raleigh (RRO) – 1628 Mail Service Center, Raleigh, NC 27699 (919) 791-4200

Washington (WAS) – 943 Washington Square Mall, Washington, NC 27889 (252) 946-6481

Wilmington (WIL) – 127 Cardinal Drive Extension, Wilmington, NC 28405 (910) 796-7215

Winston-Salem (WS) – 585 Waughtown Street, Winston-Salem, NC 27107 (336) 771-5000

Guilford County Environmental Health, 1203 Maple Street, Greensboro, NC 27405, (336) 641-3771

FTP: NFA low-NRP NOR1205.dot

The location named is apparently WEK South Corporation. My suggestion is that the request for public records be referred to Environmental Health for response as to whether they have records related to this property or not.

Eugene

From: Gregory Kanellis [mailto:Gregory.Kanellis@erm.com]
Sent: Thursday, September 16, 2010 4:31 PM
To: gwaynick@co.rockingham.nc.us
Subject: FOIA Request

RE: Freedom of Information Request

Dear Sir or Madam:

Please accept this letter as a formal request for a records search for the below referenced property under the Freedom of Information Act. This request comes as part of an environmental assessment effort being performed by ERM NC, PC.

We are requesting information on the following property:

- 1001 NE Market Street, Reidsville, NC

We are interested in any and all information concerning hazardous waste sites, spills, releases, tanks, landfills and other pertinent features of potential environmental concern that may be available for the subject sites and immediately neighboring properties as part of a department-wide records search. Information concerning these issues as far back as your records go is requested.

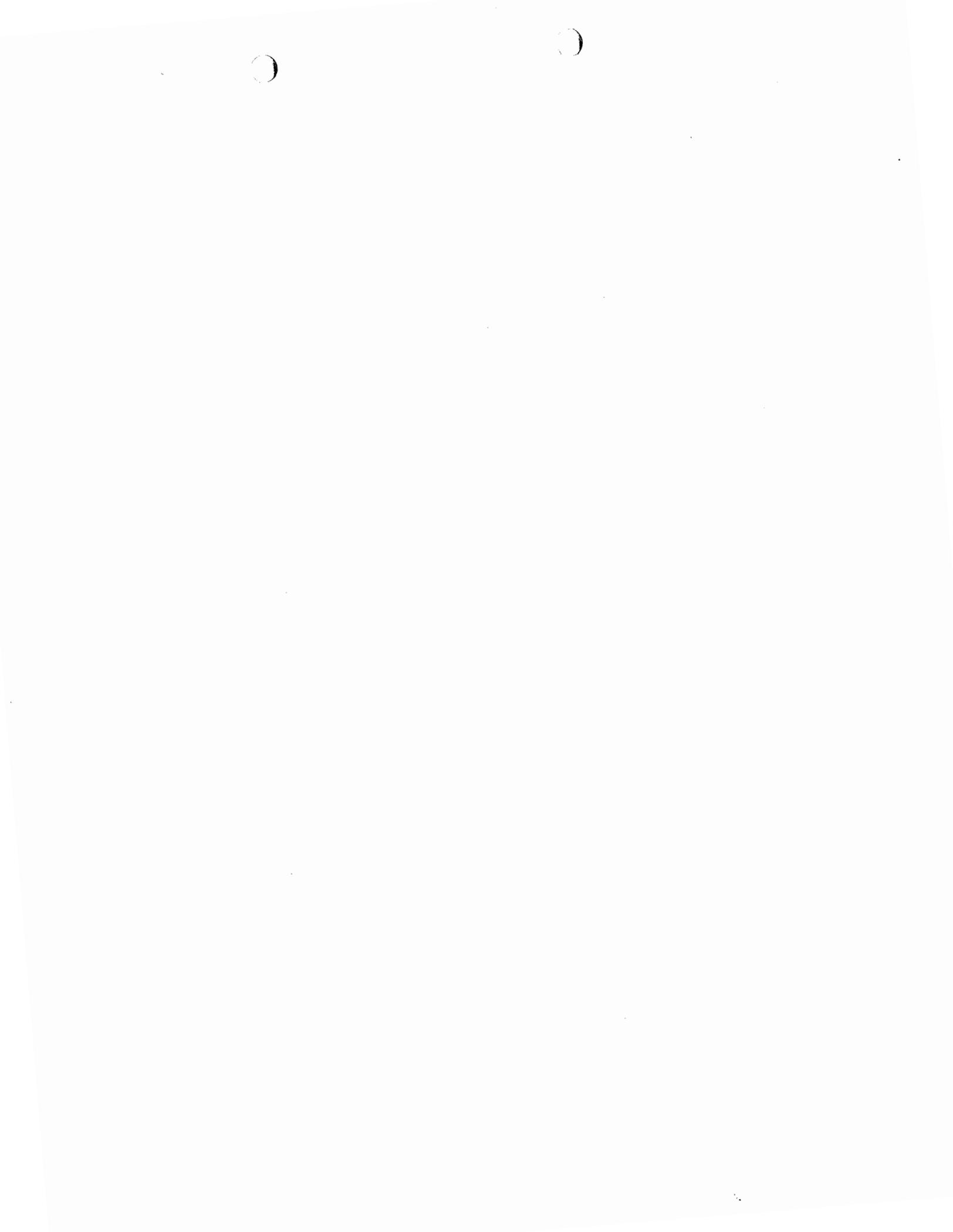
Your timely response is appreciated.

Sincerely,

Gregory Kanellis
Environmental Resources Management
1130 Situs Court, Suite 240
Raleigh, NC 27606
PH: (919) 233-4501
FX: (919) 233-4505
www.erm.com

This electronic mail message may contain information which is (a) LEGALLY PRIVILEGED, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) intended only for the use of the Addressee (s) names herein. If you are not the Addressee (s), or the person responsible for delivering this to the Addressee (s), you are hereby notified that reading, copying, or distributing this message is prohibited. If you have received this electronic mail message in error, please contact us immediately at (704) 541-8345 and take the steps necessary to delete the message completely from your computer system. Thank you, ERM NC, PC.

This electronic mail message may contain information which is (a) LEGALLY PRIVILEGED, PROPRIETARY IN NATURE, OR OTHERWISE PROTECTED BY LAW FROM DISCLOSURE, and (b) intended only for the use of the Addressee (s) names herein. If you are not the Addressee (s), or the person responsible for delivering this to the Addressee (s), you are hereby notified that reading, copying, or distributing this message is prohibited. If you have received this electronic mail message in error, please contact us immediately at our Atlanta office (770) 590-8383 and take the steps necessary to delete the message completely from your computer system. Thank you, Environmental Resources Management.





North Carolina Department of Environment and Natural Resources
Division of Waste Management

Beverly Eaves Perdue
Governor

Dexter R. Matthews
Director

Dee Freeman
Secretary

TELEPHONE MEMO TO THE FILE

Date of Call: 2-3-12

Contact: Mike Rogers

Staff: Sue Robbins (910) 796-7411

Company: WSRO - VST Section

Site/Project: Zarn - V.F.W. Road Residences Phone No. _____

- asking about the Notice of Residual Petroleum



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Faint, illegible text in the upper right section.

Robbins, Susanne

From: Day, Collin
Sent: Thursday, February 02, 2012 4:52 PM
To: Robbins, Susanne
Subject: Surface Water Protection Section Contact for WSRO

Good Afternoon Sue:

It is my understanding that Mike Thomas is the project manager for surface water sites in Rockingham County. He has already left for the day, so I will forward your information that you sent through emails as well as mine on to him as well as the supervisor in the section, Corey Bassinger. If you want to call his office phone just dial the main number 336-771-5000.

Collin Day
Hydrogeologist
NC DENR Winston-Salem Regional Office
Division of Waste Management, Superfund Section-IHSB
585 Waughtown Street
Winston-Salem, NC 27107
Voice: (336) 771-5281
FAX: (336) 771-4632

From: Robbins, Susanne
Sent: Thursday, February 02, 2012 1:51 PM
To: Day, Collin
Subject: complaint issue

Hey Collin,
Sounds like Vince is taking over the well sampling, I just sent him all the information. I am still following up with the UST information. Also, is there a surface water contact there? Let me know who the best contact is. I think a pond sample would be helpful.
Thanks

Sue Robbins, Hydrogeologist
IHSB, Superfund Section
NC Division of Waste Management
Wilmington Regional Office
(910) 796-7411

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.



Diakon Molding Inc, ~ acquired 2000 ^{Call}

GANTT C Melvin/TR

? Notice of Residual Petroleum

Rockingham Environmental Health
342-8407
~ Health Director

Mike Rogers ∞
336-771-8343

Bob Jones ~ Rockingham Co. Health Dept,
Collin Day

40-50-60's
operation

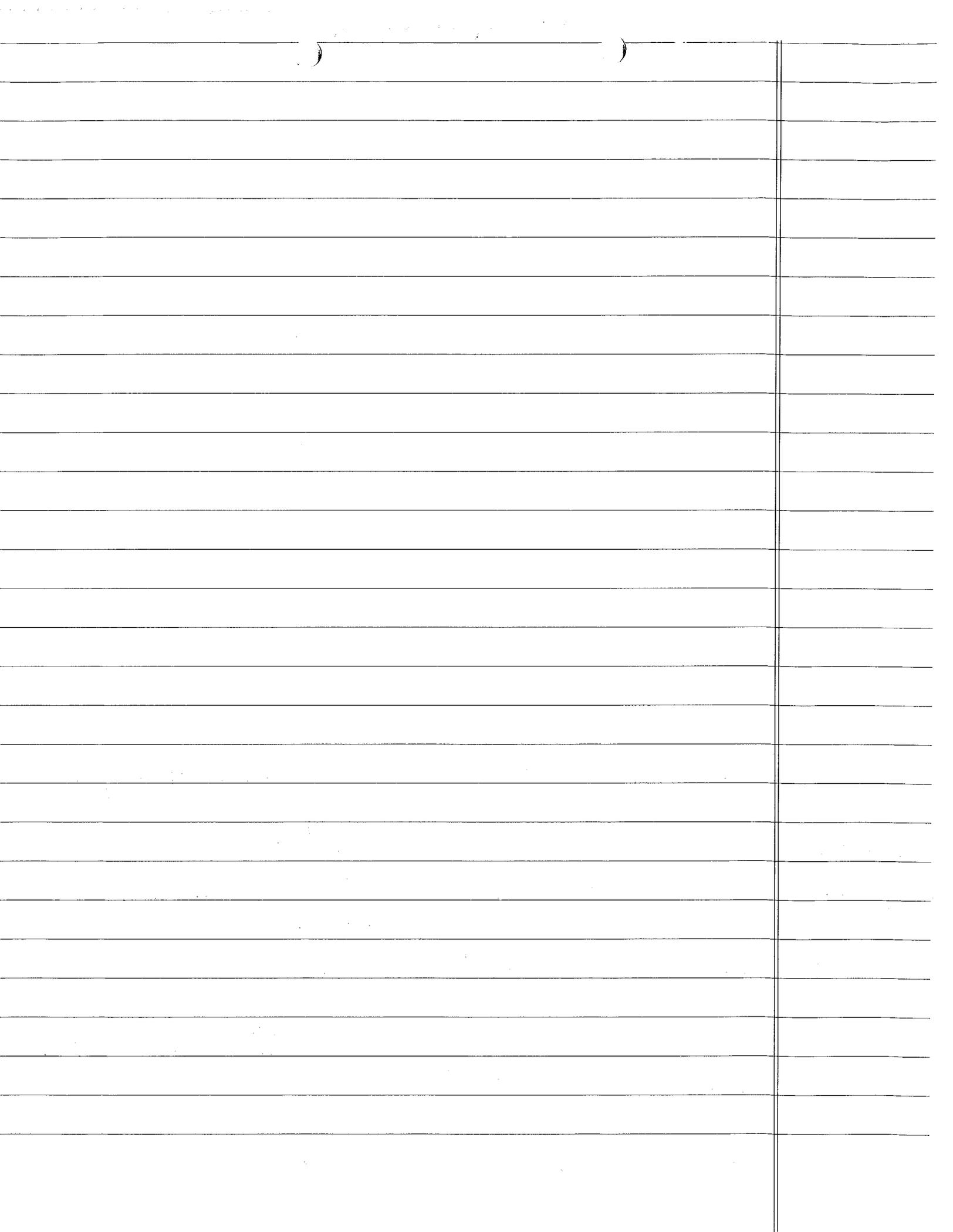
60's-70's

∞ Zarnes ~ 70's operation }
~ made Transcans

? Convenience Stores 29 + Madison

City Reidsville ~ Ted } { Kits from State
{ Lab

Stemmerly ~ Storage for Tobacco



Big Apple Farm Supply - Solvents
407 SW Market Street

Google Maps

VFW Road ~ also ? Wallin Rd

208 Watlington Industrial Dr
Richardson

Barnes

Busick

Holiday Loop

107 NE Market St,

Bush Brothers Plating Inc. / Greer

3 parcels

NIAM Partnership

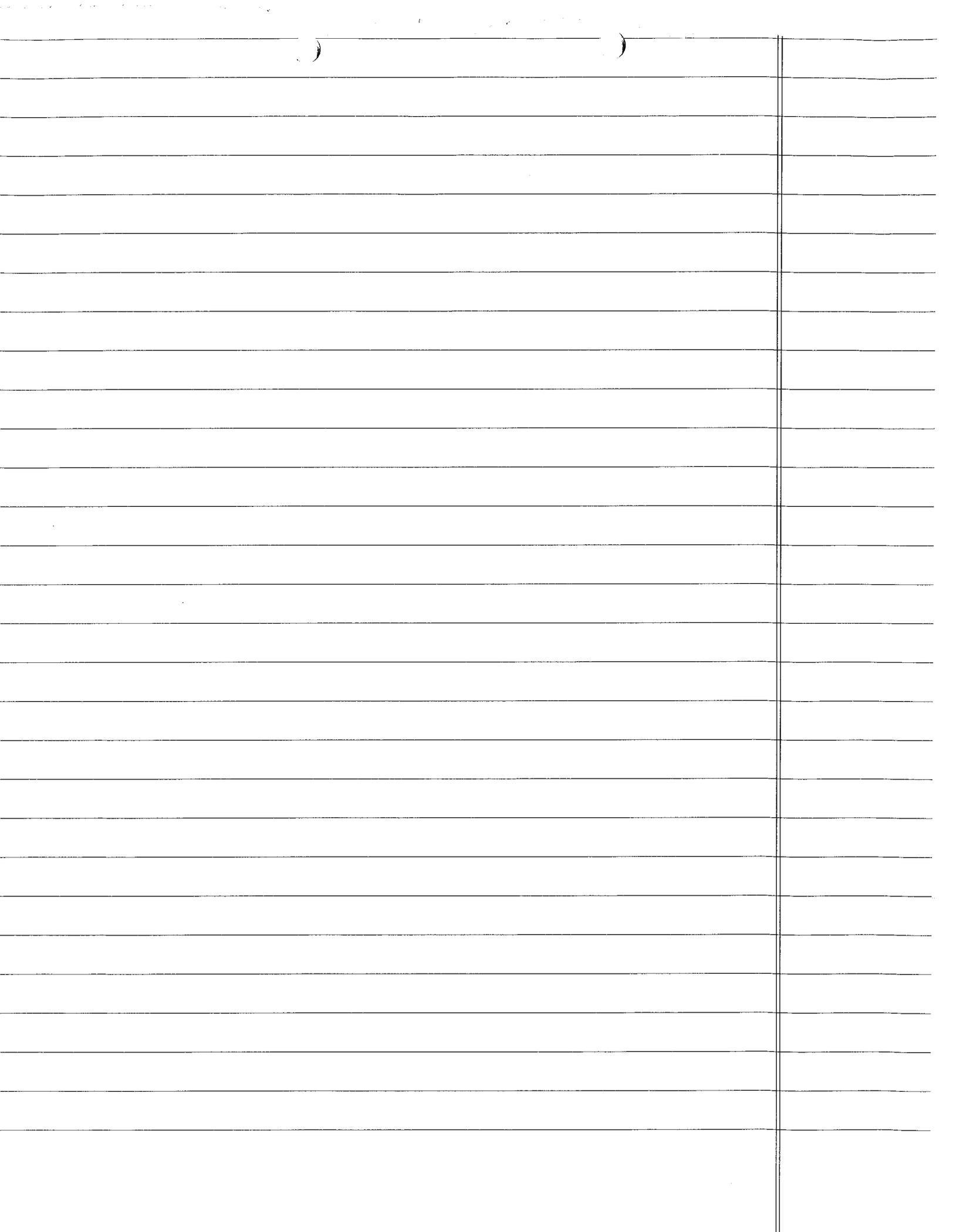
A+A Real Estate Services

Parcel 173455

Pin 8905 08 88 2930

Esque Yolanda

00



Robbins, Susanne

From: Robbins, Susanne
Sent: Wednesday, February 01, 2012 1:11 PM
To: Day, Collin; Hudson, Eric
Subject: Zarn Complaint

FYI.

I talked with Mr. Law and he indicated that most of the folks are willing to let their wells be sampled and most everyone is on a well there. He also indicated that the water had a metal taste, often a strong smell, and most people were filtering or drinking bottled water. He also indicated that the Zarn pond (farthest north) often was blue and that you could smell a strong plastic odor from the plant.

My review of the EPA Envirofacts website indicated that Zarn did have a waste water permit and Diakon Molding, Inc (subsequent owner) had an air permit. The facility report indicated that the site had never been inspected. Bucks Amoco is listed at 5580 US 29 Business – not sure if they were listed for UST permitting or if they had had a problem. There was also a site (Marion Baynes) listed at the end of Penn Lake Circle as having waste water treatment. Not much information on the website so had to tell if they were just listed as a permitted facility or if they had any incidents.

Sue Robbins, Hydrogeologist
IHSB, Superfund Section
NC Division of Waste Management
Wilmington Regional Office
(910) 796-7411

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

C

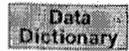
C



Enforcement & Compliance History Online (ECHO)

You are here: [EPA Home](#) [Compliance and Enforcement](#) [ECHO](#) [Search Data](#) [Search Results](#)

Detailed Facility Report



For Public Release - Unrestricted Dissemination Report Generated on 02/01/2012
US Environmental Protection Agency - Office of Enforcement and Compliance Assurance

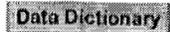
Gray text in this report indicates information that is not required to be reported to EPA. These data, typically regarding non-major or smaller facilities, are often incomplete.

Facility Permits and Identifiers



Statute	System	Source ID	Facility Name	Street Address	City	State	Zip
	FRS	110039008971	ZARN INCORPORATED ** INACTIVE **	1001 NE MARKET STREET EXTENSIO	REIDSVILLE	NC	27320
CAA	AFS	3715700054	ZARN INCORPORATED ** INACTIVE **	1001 NE MARKET STREET EXTENSIO	REIDSVILLE	NC	27320

Facility Characteristics



Statute	Source ID	Universe	Status	Areas	Permit Expiration Date	Latitude/ Longitude	Indian Country?	SIC Codes	NAICS Codes
	110039008971					LRT: 36.385233 , -79.650297	No		
CAA	3715700054	Synthetic Minor (Fed. Rep.)	Permanently Closed	SIP			NA	2821	325211

If the CWA permit is past its expiration date, this normally means that the permitting authority has not yet issued a new permit. In these situations, the expired permit is normally administratively extended and kept in effect until the new permit is issued.

For the RCRA program, activities that contribute to an overall facility status of Active are displayed in parentheses using the acronym HPACS, where H indicates handler activities, P - permitting, A - corrective action, C - converter, and S - state-specific. More information is available in the Data Dictionary.

Inspection and Enforcement Summary Data



Statute	Source ID	Insp. Last 05Yrs	Date of Last Inspection	Formal Enf Act Last 05 Yrs	Penalties Last 05 Yrs
CAA	3715700054	0	Never	0	\$00

Compliance Monitoring History (05 years)



Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding
- No data records returned.						

Entries in *italics* are not considered inspections in official counts.

Compliance Summary Data



Information on the nature of alleged violations is available on the FAQ page.

Statute	Source ID	Current SNC/HPV?	Description	Current As Of	Qtrs in NC (of 12)
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CAA	3715700054	NO		12/17/2011	
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Three Year Compliance Status by Quarter

[Data Dictionary](#)

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of alleged violations is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

AIR Compliance Status												
Statute:Source ID	QTR1	QTR2	QTR3	QTR4	QTR5	QTR6	QTR7	QTR8	QTR9	QTR10	QTR11	QTR12
CAA: 3715700054	Jan-Mar09	Apr-Jun09	Jul-Sep09	Oct-Dec09	Jan-Mar10	Apr-Jun10	Jul-Sep10	Oct-Dec10	Jan-Mar11	Apr-Jun11	Jul-Sep11	Oct-Dec11
HPV History												
Program/Pollutant in Current Violation												
SIP												

High Priority Violator (HPV) History section: "Unaddr" means the facility has not yet been addressed with a formal enforcement action. "Addr" means the facility has been addressed with a formal enforcement action, but its violations have not been resolved. Lead Agency designated can be US EPA, State, Both, or No Lead Determined. If HPV History is blank, then the facility was not a High Priority Violator. V=Violation; S=Compliance Schedule.

Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

[Data Dictionary](#)

Statute	Source ID	Type of Action	Lead Agency	Date
- No data records returned.				

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

[Data Dictionary](#)

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description
- No data records returned.						

In some cases, formal enforcement actions may be entered both at the initiation and final stages of the action. These may appear more than once above. Entries in *italics* are not "formal" actions under the PCS definitions but are either the initiation of an action or penalties assessed as a result of a previous action. This section includes US EPA and State formal enforcement actions under CAA, CWA and RCRA.

ICIS

[Data Dictionary](#)

Primary Law/Section	Case Number	Case Type	Lead Agency	Case Name	Issued/Filed Date	Settlement Date	Federal Penalty	State/Local Penalty	SEP Cost	Comp Action Cost
- No data records returned.										

Federal enforcement actions and penalties shown in this section are from the Integrated Compliance Information System (ICIS-FE&C). These actions may duplicate records in the Formal Enforcement Actions section.

TRI History of Reported Chemicals Released in Pounds per Year at Site:

[Data Dictionary](#)

Year /	Total Air Emissions	Surface Water Discharges	Underground Injections	Releases to Land	Total On-site Releases	Total Off-site Transfers	Total Releases and Transfers
- No data records returned.							

TRI Total Releases and Transfers by Chemical and Year

Chemical Name	-8	-7	-6	-5	-4	-3	-2	-1	0

CAA	3715700054	NO		12/17/2011	
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Three Year Compliance Status by Quarter

Data Dictionary

Violations shown in a given quarter do not necessarily span the entire 3 months. Information on the nature of alleged violations is available on the FAQ page, and information on the duration of non-compliance is available at the end of this report.

AIR Compliance Status												
Statute:Source ID	QTR1	QTR2	QTR3	QTR4	QTR5	QTR6	QTR7	QTR8	QTR9	QTR10	QTR11	QTR12
CAA: 3715700054	Jan-Mar09	Apr-Jun09	Jul-Sep09	Oct-Dec09	Jan-Mar10	Apr-Jun10	Jul-Sep10	Oct-Dec10	Jan-Mar11	Apr-Jun11	Jul-Sep11	Oct-Dec11
HPV History												
Program/Pollutant in Current Violation												
SIP												

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Notices of Violation or Informal Enforcement - AFS, PCS, ICIS-NPDES, RCRAInfo (05 year history)

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date
- No data records returned.				

Formal Enforcement Actions - (05 year history)

AFS, PCS, RCRAInfo, NCDB

Data Dictionary

Statute	Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description
- No data records returned.						

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ICIS

Data Dictionary

Primary Law/Section	Case Number	Case Type	Lead Agency	Case Name	Issued/Filed Date	Settlement Date	Federal Penalty	State/Local Penalty	SEP Cost	Comp Action Cost
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Data Dictionary

Year /	Total Air Emissions	Surface Water Discharges	Underground Injections	Releases to Land	Total On-site Releases	Total Off-site Transfers	Total Releases and Transfers
- No data records returned.							

TRI Total Releases and Transfers by Chemical and Year

Chemical Name	-8	-7	-6	-5	-4	-3	-2	-1	0



- No data records returned.

Demographic Profile of Surrounding Area (3 Miles)

[Data Dictionary](#)

Radius of Area:	N/A	Land Area:	N/A	Households in area:	N/A
- No data records returned.					

Notice About Duration of Violations -- The duration of violations shown on this report is an estimate of the actual duration of the violations that might be alleged or later determined in a legal proceeding. For example, the start date of the violation as shown in the ECHO database is normally when the government first became aware of the violation, not the first date that the violation occurred, and the facility may have corrected the violation before the end date shown. In some situations, violations may have been corrected by the facility, but EPA or the State has not verified the correction of these violations. In other situations, EPA does not remove the violation flag until an enforcement action has been resolved.



This report was generated by the Integrated Data for Enforcement Analysis (IDEA) system, which updates its information from program databases monthly. The data were last updated: AFS: 12/17/2011. FRS: 12/15/2011.

Some regulated facilities have expressed an interest in explaining data shown in the Detailed Facility Reports in ECHO. Please check company web sites for such explanations.

[EPA Home](#) | [Privacy and Security Notice](#) | [Contact Us](#)



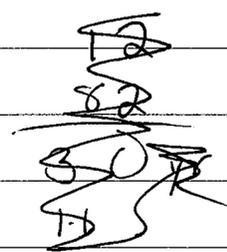
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Research Notes

BUSH Brothers Plating Inc.

107 NE Market St,

Across Street



Myers Body
5433 US Hwy 29 BUS

Marion Baynes
Penn Lake Cir.
Waste Water Treatment

Dewey Rickmand
160 Pennington Road
UST

Diakon Molding, Inc. 1001 NE
~ Wastewater Facility Market Street

6316

Haz waste
Brad Bailey ~ 919-

Air Permit
Inactive 2arn



Wolf-Island Rd ~

Wallin

Truck load spot

~ Mr. Law ~

Susanne. Robbins @ncdenr.gov

babjones @ ~~county~~ ^{co. rockingham.nc.us}

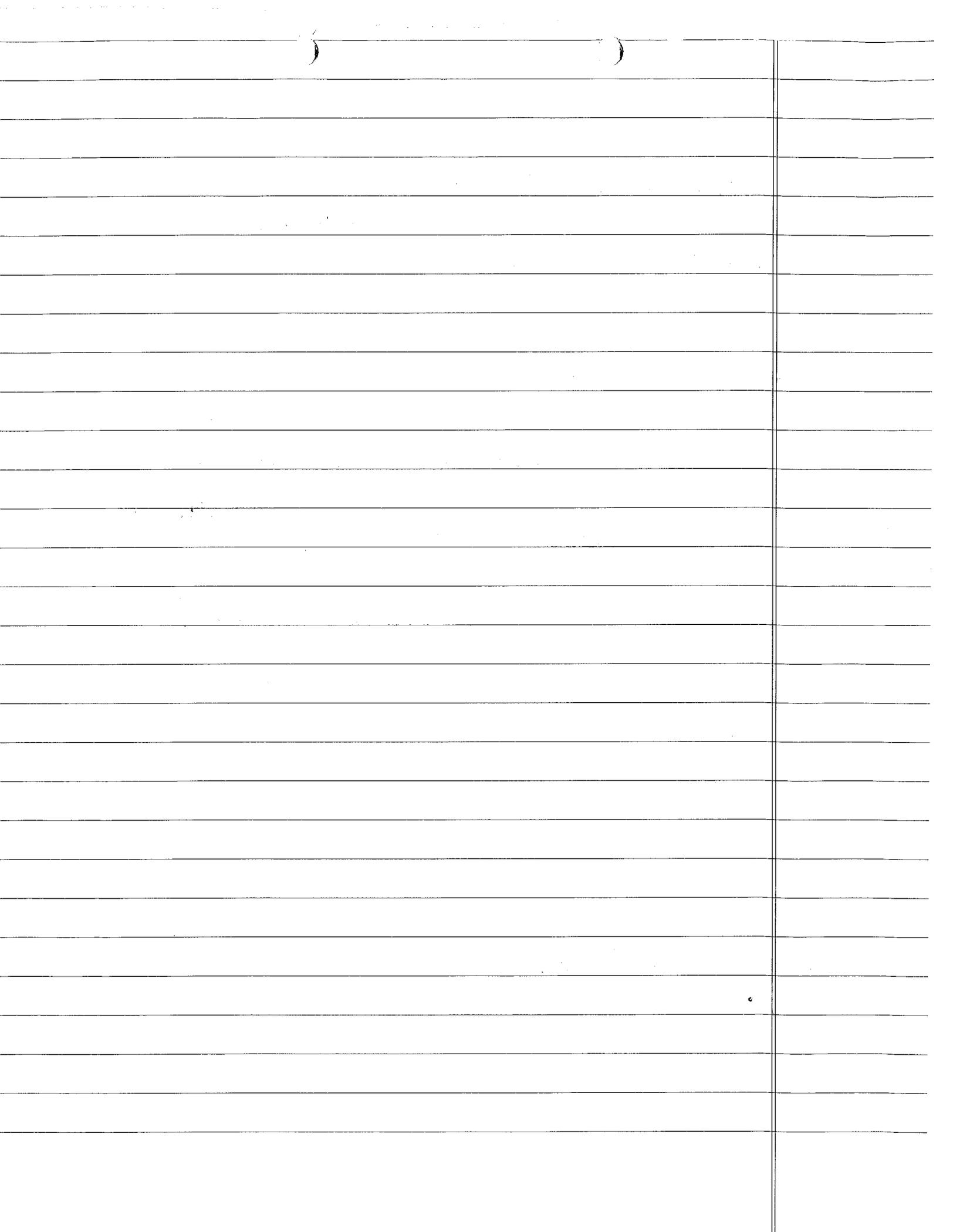
336-342-8179

- 8180 office
main

Ted }
}

L+W Recovery Service

786



Robbins, Susanne

From: Walch, John
Sent: Tuesday, January 31, 2012 3:33 PM
To: Robbins, Susanne
Subject: FW: Citizen Call Regarding Neighborhood Exposure Concerns and Cancer Related Deaths

Sue –

Here is a new site that came up today. (I don't think a site visit will be necessary.) Please review the info and see and contact Collin to see if the County can sample these wells. If they can't do it within the next few weeks, let's check with Vince or S&ME so we get some sampling done before the end of February if possible.

Based on what Collin told me on the phone, we may need to do a phased approach to the sampling depending on how many wells are in the area. Sample adjacent & down gradient properties first then expand sampling if we find something. Also, sample any potable wells at the nearby industrial site.

Thanks

*John W. Walch
Eastern Unit Supervisor
Inactive Hazardous Sites Branch
NC Division of Waste Management
Superfund Section
(919) 707-8356*

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Walch, John
Sent: Tuesday, January 31, 2012 3:12 PM
To: Day, Collin
Subject: RE: Citizen Call Regarding Neighborhood Exposure Concerns and Cancer Related Deaths

Collin-

Can you please follow up with the Rockingham County folks. If they can't sample, we can get Vince or S&ME to do it. Do you know of any incidents in the area?

Thanks

*John W. Walch
Eastern Unit Supervisor
Inactive Hazardous Sites Branch
NC Division of Waste Management
Superfund Section
(919) 707-8356*

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Day, Collin
Sent: Tuesday, January 31, 2012 2:52 PM
To: Walch, John
Subject: FW: Citizen Call Regarding Neighborhood Exposure Concerns and Cancer Related Deaths

John:

Eric Hudson who was on the phone with me during our call this morning to you, forwarded me the message below from the Reidsville (Rockingham County) resident who phoned the WSRO.
We have yet to speak with Ted Nelson who is the Environmental Health Director for the County.

Collin Day
Hydrogeologist
NC DENR Winston-Salem Regional Office
Division of Waste Management, Superfund Section-IHSB
585 Waughtown Street
Winston-Salem, NC 27107
Voice: (336) 771-5281
FAX: (336) 771-4632

From: Hudson, Eric
Sent: Tuesday, January 31, 2012 11:17 AM
To: Day, Collin; tnelson@co.rockingham.nc.us
Cc: Edwards, Lisa; tommy.law@pedmontng.com
Subject: Citizen Call Regarding Neighborhood Exposure Concerns and Cancer Related Deaths

Collin and Ted,

Mr. Tommy Law called me this morning and expressed concern about his parent's neighborhood and possible exposure. Mr. Law's aunt recently passed away (from cancer) and after the funeral the neighbors discussed the high number of cancer related deaths occurring in the neighborhood. Mr. Law indicated there have been ~27 cancer related deaths in the community that lives on V.F.W. Road near Reidsville in Rockingham County. V.F.W Road begins at the intersection of N.E. Market Street and Narrow Gauge Road.

Mr. Law's phone numbers are: 1) 336-402-6364, 2) 336-552-7359, 3) 336-348-6421 (office).

According to Mr. Law:

In the 1970s a company called Zarn Industries use to be located off of N.E. Market Street near the neighborhood (it appears to be ~ 1,000 feet between the company and V.F.W. Road). The company made plastic gas tanks and plastic containers. There was a pond adjacent to the company and the kids from the neighborhood use to fish and swim in. The company advised kids not to eat the fish. The pond's dam failed and the water washed downstream toward a recreational lake. The company closed and several other companies have cycled through the building, which is currently being used as a warehouse.

Mr. Law's parents are Willie and Marie Law and their address is 144 V.F.W. Road, Reidsville, NC 27320 (336-349-8149). He believes most people in the community are on private wells for drinking water.

Because this does not involve a public water supply system, I am forwarding this information to you with the hopes that you will contact Mr. Law and can address his concerns.

Regards,
Eric Hudson

Eric Hudson
Assistant Regional Engineer
NC DENR Winston-Salem Regional Office
Division of Water Resources, Public Water Supply Section
585 Waughtown Street
Winston-Salem, NC 27107
Voice: (336) 771-5070
FAX: (336) 771-4632
Eric.Hudson@NCDENR.gov
<http://www.ncwater.org/pws>

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