

IERRADON

STATEMENT OF QUALIFICATIONS

TO PROVIDE ENGINEERING SERVICES

TO THE

DIVISION OF NATURAL RESOURCES, PARKS & RECREATION SECTION

FOR THE

BLUESTONE STATE PARK WATER LINE REPLACEMENT PROJECT, DNR 209036

OCTOBER 7, 2008







P.O. Box 519 Nitro, WV 25143 Tel: (304) 755-8291 Fax: (304) 755-2636 www.terradon.com P.O Box 1635 Lewisburg, WV 24901 Tel: (304) 645-4636 Fax: (304) 645-7614 5310 Markel Road Suite 102 Richmond, VA 23230 Tel: (804) 673-2560 Fax: (804) 673-2561

October 6, 2008

Frank Whittaker, Senior Buyer Purchasing Division PO Box 50130 Charleston, WV 25305-0130

Re:

Expression of Interest for Bluestone State Park Water Main Replacement Project

DNR 209036

Dear Mr. Whittaker:

TERRADON Corporation is very interested in the above referenced project. Our personnel have a wealth of experience designing water line extension and replacement projects. TERRADON has been responsible for the design of over 216 miles of waterlines in West Virginia.

Harvey McCallister, PE, will serve as TERRADON's project manager and senior engineer on this project. He will be assisted by Jim Nagy, PE, who has 25 years of experience in water distribution systems.

TERRADON has built a reputation for providing cost effective design solutions while maintaining the highest level of customer service. Our goal is to become your preferred consultant; we'll go the extra mile to guarantee your satisfaction.

We would appreciate your consideration to be short-listed so that we may present our approach to this exciting project with the selection committee.

Sincerely,

Steven T. Engelhardt

Director of Marketing and Personnel



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TYPE NAME/ADDRESS HERE

State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for BEONUMBER Quotation

DNR209036

1

ADDRESS:CORRESPONDENCE TO ATTENTION OF FRANK WHITTAKER 304-558-2316

DIVISION OF NATURAL RESOURCES PARKS & RECREATION SECTION BUILDING 3, ROOM 719 1900 KANAWHA BOULEVARD, EAST CHARLESTON, WV

25305-0662 304-558-2775

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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for MEGNUMBER Quotation

DNR209036

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ADDRESS:CORRESPONDENCE TO ATTENTION OF FRANK WHITTAKER

B04-558-2316

DIVISION OF NATURAL RESOURCES PARKS & RECREATION SECTION BUILDING 3, ROOM 719 1900 KANAWHA BOULEVARD, EAST CHARLESTON, WV

25305-0662 304-558-2775

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State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation

REQ NUMBER DNR209036

3

ADDRESS CORRESPONDENCE TO ATTENTION OF FRANK WHITTAKER 304-558-2316

DIVISION OF NATURAL RESOURCES PARKS & RECREATION SECTION BUILDING 3, ROOM 719 1900 KANAWHA BOULEVARD, EAST

CHARLESTON, WV 25305-0662

304-558-2775

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State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130 Charleston, WV 25305-0130

Request for Quotation DNR209036

4

ADDRESS COBRESPONDENCE TO ATTENTION OF FRANK WHITTAKER 304-558-2316

DIVISION OF NATURAL RESOURCES PARKS & RECREATION SECTION BUILDING 3, ROOM 719 1900 KANAWHA BOULEVARD, EAST CHARLESTON, WV

25305-0662

304-558-2775

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STATE OF WEST VIRGINIA Purchasing Division

PURCHASING AFFIDAVIT

VENDOR OWING A DEBT TO THE STATE:

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated.

Vendor's Name:	TEKRADON	ROPPORATION			
Authorized Signature:	Ju Je	Jellrand-	Date:	10-6-2008	

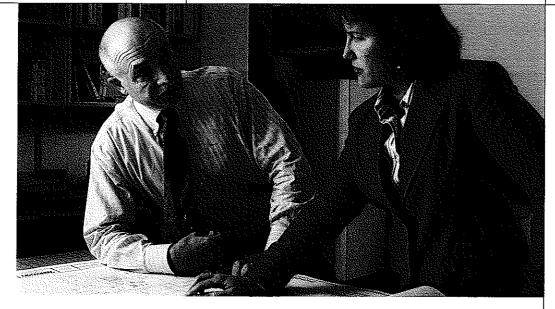
Purchasing Affidavit (Revised 07/01/08)

STATEMENT OF QUALIFICATIONS



TERRADON
is regarded
as one of the
region's leading
land and
infrastructure
planning and
design firms.





TERRADON routinely works with various public and private utilities to plan, develop, design and construct water and wastewater system projects. (See Related Prior Experience.)

TERRADON employs over 60 professional engineers, technicians, surveyors and support staff at its main office, including the following personnel who are experienced with water line extensions:

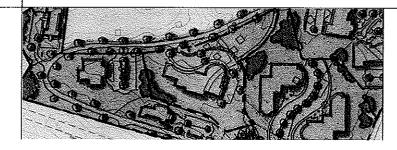
- Harvey McCallister P.E. is licensed in West Virginia, Virginia, Maryland, Ohio, and Kentucky
- Jim Nagy, P.E. is licensed in West Virginia.
- John James, P.E. is a geotechnical engineer licensed in West Virginia.
- Jon Gillenwater is a engineering technician.

- Kevin Garnes is a engineering technician and designer.
- Ward Green is an engineering technician.

TERRADON employs professional surveyors, engineering interns, graduate engineering technicians, and design technicians/CADD operators to complete many-faceted projects.

We have additional offices at Lewisburg, West Virginia and Richmond, Virginia. These offices have professional engineers, staff engineers, registered land surveyors, and other professionals to complete projects in Southeastern West Virginia and Eastern Virginia.

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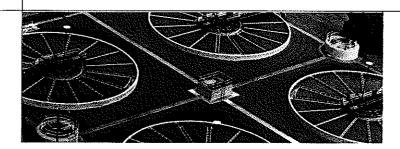


STATEMENT OF QUALIFICATIONS

We are typically responsible for preliminary engineering, potential funding source applications, WV Infrastructure and Jobs Development Council application, WV Public Service Commission certificate of need application, WV Bureau for Public Health application and all supporting documentation for these applications. We also prepare environmental permit applications for National Environmental Policy Act, US Army Corps of Engineers, WV Division of Environmental Protection, WV Public Lands Corporation and WV National Pollutant Discharge Elimination System.

Basic engineering services include design; construction specifications; bid and contract documents; bidding phase, construction phase and post construction phase engineering/administration/project management.

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TECHNICAL EXPERTISE

TERRADON offers a very professional and experienced staff to perform the tasks required for this project. We have assembled a professional team of experts with over 100 years of experience with water and wastewater system design and construction.

Harvey McCallister, P.E., will be the Project Manager and brings a mix of consulting and regulatory experience to the team. During his 36 years of experience he has worked on a wide variety of water projects.

Specific examples of Mr. McCallister's experience include water line replacement projects for Flatwoods Canoe Run PSD, Salt Rock PSD, Walton PSD, Clay Roane PSD, and Hooverson Heights PSD.

Jim Nagy, P.E., is a member of the water/ wastewater team and brings a mix of consulting and utility experience to the team. While with West Virginia American Water Company Mr. Nagy was involved in determining line replacement projects, project management, and emergency repairs to the distribution system. Ward Green will conduct initial layout and constructability reviews. He has worked as a project manager, superintendent, designer and resident project representative during his 30 years in the field

Jon Gillenwater will oversee preparation of funding agency applications and regulatory applications. He is experience with contract administration, cost estimating and hydraulic modeling.

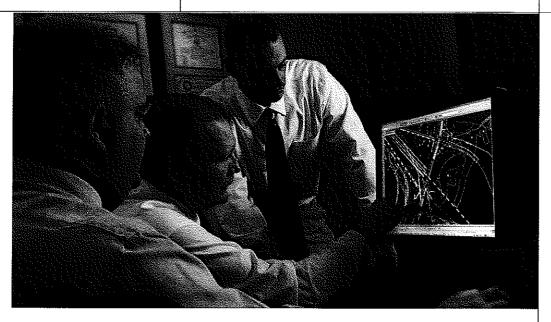
Mr. Kevin Garnes is an experienced design technician/CAD operator. Kevin also has been responsible for all water extension projects that TERRADON has done: Kevin has 27 years of experience, primarily in water and wastewater systems.

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TECHNICAL EXPERTISE



TERRADON offers a very diverse staff of engineers, technicians, scientists and support personnel. We provide a wide range of support services for water system projects on an asneeded basis. Other services include site and right of way acquisition; environmental due diligence investigations and permitting; boundary/topographic surveys and elevation certificates; and quality control material testing of soils and concrete.

TERRADON currently employs over 60 individuals of various disciplines and expertise. This staffing provides the client tremendous resources to professionally and cost-effectively plan, design and construct a variety of public works projects.

TERRADON has the financial, managerial and technical resources to provide the services necessary to deliver a highly successful project for the WV-DNR, Parks & Recreation Section.

Harvey McCallister, P.E., will be the project manager/responsible party for this project. He will be responsible for all technical, financial, managerial aspects of the project and will report directly to the WV-DNR, Parks & Recreation Section.

Jim Nagy and Harvey McCallister will conduct the studies and prepare recommendations. When authorized they will design improvements and prepare bidding documents.



Ward Green will conduct field review and preliminary layout and constructability reviews.

Jon Gillenwater will prepare permit applications and work with regulatory and funding agencies.

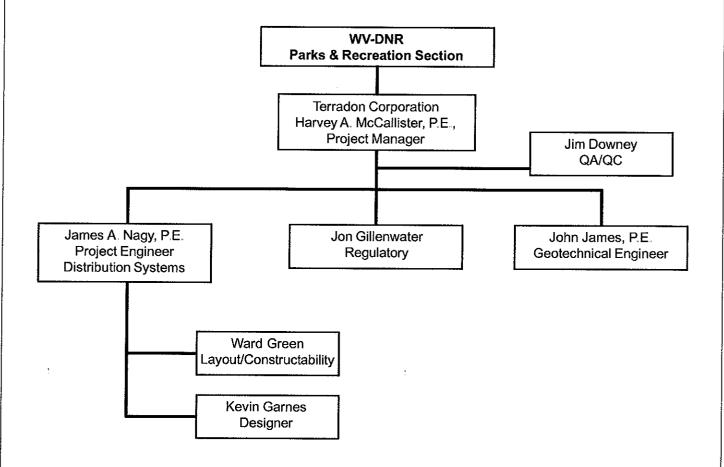
Kevin Garnes will provide primary technical support and CADD services. Kevin also has available three or more experienced CADD technicians, if necessary.

These individuals will provide the majority of services needed on this project. TERRADON has sufficient staff to provide additional project support as needed.



WV-DNR, Parks & Recreation Section

TERRADON CORPORATION PROJECT ORGANIZATION CHART







Harvey A. "Bud " McCallister, P.E. will be assigned as **Project Manager** on this project. Mr. McCallister has nearly 36 years experience in the design of drinking water systems and wastewater systems. He has extensive experience in the design of distribution systems.

Mr. McCallister's duties on this project will be to lead the design team on all aspects evaluation and design of the water distribution system. He will provide senior leadership to the design team and lead the team through process design and equipment selection so that the most cost-effective solutions for the Wilderness Public Service District are implemented.

A brief list of examples of water distribution systems on which Mr. McCallister has served as project engineer in areas of West Virginia are as follows:

- City of Logan Project Manager and Design Engineer for 12 inch water line in down town Logan to replace existing line
- City of Glenville Project Manager and Design Engineer for renovations to distribution system and extensions to serve new areas...
- City of Fairmont Design Engineer for 4 projects with 16, 12, 8, & 6 inch replacements through the city.
- Ravenswood Design Engineer for replacement of undersized lines.
- · Hooverson Heights Design Engineer for replacement of mains in existing distribution system.
- Flatwoods Canoe Run PSD Design engineer and project manager for extension of services.
- City of St. Marys Design engineer and project manager for extension of water services to Dry Ridge.
- Walton PSD Design engineer and project manager for extension of services to Amber Ridge.
- * Clay Roane PSD Design engineer and project manager for extensions of services in Clay and Roane Counties.

Mr. McCallister's full resume may be viewed in the attached resume section of this submittal.





James A. "Jim" Nagy, P.E. will serve as Design Engineer on this project. Mr. Nagy has over 30 years experience in various Civil Engineering projects, with 25 years experience in mainly water distribution system engineering.

Mr. Nagy will be assigned to provide professional engineering services with regard to the water distribution system and wastewater collection system needs. For 25 years prior to joining Terradon Corporation, Mr. Nagy was Operations Supervisor for a large privately owned water utility. His duties included overseeing the construction of water line extensions, determining and meeting fire service needs, and overseeing the inventory for the Kanawha Valley District for the utility.

Since joining Terradon, Mr. Nagy has been Senior Design Engineer on water system and sewer system on large private development projects throughout the state. Mr. Nagy's complete resume may be found in the resume section of this submittal.



Mr. Kevin Games has over 31 years experience in design of water and sewer projects.



Mr. Gillenwater is a graduate technician with over 21 years of experience related to utility and infrastructure development projects.



Mr. Green is a technician with over 30 years of experience related to utility and infrastructure development projects.



MANAGEMENT PROCEDURES TO FULFILL COMMITMENTS

TERRADON's parent company, Kanawha Stone, is a civil/earthmoving contractor. Scheduling of activities and manpower is critical to complete projects on time and within budget in Kanawha Stone's business.

TERRADON has taken that philosophy into the consulting business. Each of the project managers and engineers has received project management training from PSMJ, Resources Inc. This training provides TERRADON Personnel with a computer assisted method to track both small and large projects. The reports generated are easy to understand and suitable fro monthly status reporting.

For larger more complicated projects the manager of the Civil Engineering group, Jim Downey, is available to assist in the management of the projects. Mr. Downey has completed post graduate studies in project management and environmental law. While Director of Operations for the Charleston Sanitary Board, he was involved in the day to day scheduling of equipment and personnel required to keep the system operating.

TERRADON believes that the use of scheduling tools such as bar charts, monthly status reports, and similar management tools will provide the WV-DNR, Parks & Recreation Section with useful information to monitor consulting engineers' progress on specific projects. Due to Mr. Downey's experience with design, project management, scheduling of resources, and contract administration, TERRADON believes that we may also act as the representative for WV-DNR, Parks & Recreation Section, by providing oversight.

In this capacity TERRADON would meet monthly with all consultants, evaluate the status of deliverables and work product based upon our experience is such matters and provide the Section with a status report indicating problems areas, needed information, potential changes in scope, and possible alternatives.



RELATED PRIOR EXPERIENCE-CURRENT WATER PROJECTS

Upper Fishers Branch/Guthrie Water Main

Extension, Kanawha County RDA/WVAW

\$2.6 million

2008 Completion

Putnam County Master Plan for Water

Extensions

Putnam County Commission

1,000,000-Gallon Prince William Elevated

Water Storage Tank, Virginia American Water

\$1.5 million

2008 Completion

Cabell County Master Plan for Water Extensions

Cabell County Commission

Rabel Mountain Water Main Extension

WVAW

\$600,000

April 2007 Completion

WVAW

Spring Fork Water Feasibility Study

Montgomery Water Facilities Study

WVDEP/AML

Back Fork Water Main Extension

Webster County/WVAW

\$750,000

August 2007 Completion

Birch River Water Feasibility Study

WVDEP/AML

Putnam County 2006 Water Main Extensions

Putnam County/WVAW

\$3.3 million

2008 Completion

Muddlety Creek Water Feasibility Study

WVDEP/AML

110,000-Gallon Capon Bridge Water Storage

Tank, Hampshire County Schools

January 2007 Completion

Upper Winifrede Water Feasibility Study

WVDEP/AML

\$400,000

Logan County PSD / Holden Water Feasibility

Study, WVDEP/AML

Kanawha County Master Plan for Water

Extensions, Kanawha County Commission

Ongoing study

ERRADON

RELATED PRIOR EXPERIENCE-RECENTLY COMPLETED WATER PROJECTS

Mt. Zion Water Booster and Main Extension

WVAW

\$300,000

Pond Gap Water Main Extension

Kanawha County/WVAW/AML \$2.0 million

Peytona Estates Water Booster and Main

Extension, WVAW

\$150,000

Kanawha County 2003 Water Main Extensions

Kanawha County/WVAW

\$2 5 million

Oak Hill Water Main Reinforcement

WVAW

\$750,000

Left Fork of Union Ridge Water Main Extensions

Salt Rock Water PSD/Cabell County/WVAW/HUD

\$1.5 million

Fort Lee, Virginia Water Distribution System

Upgrade, Virginia American Water \$1 million

Adkins Fork, Bridge Creek, Trace Fork & Ryder

Creek, Correction of defective work, Construction

observation, Putnam County/WVAW \$400,000

750,000-Gallon Pinch Water Storage Tank

WVAW

\$600,000

Putnam County 1999 Water Main Extension

Hickory Ridge Water Storage Tank Relocation

WVAW

\$250,000

Putnam County/WVAW, Responsible for all bidding

and construction documents, Construction

observation of two contracts, Lead consultant for

construction administration/management

\$15.0 million

Upper Frame Water Main Extension

Kanawha County/WVAW/HUD \$2.6 million

Witcher Creek Water Main Extension

Kanawha County/WVAW/AML \$86

\$800,000

Kanawha County 1999 Water Main Extension

Responsible for all bidding and construction

documents. Construction observation of five

contracts. Lead consultant for construction

administration/management

Town Run Water Main Extension

Lewis County/WVAW/AML

\$200,000

Continued ->



RELATED PRIOR EXPERIENCE-RECENTLY COMPLETED WATER PROJECTS

Kanawha County/WVAW

\$18 0 million

Cabell County 1999 Water Main Extensions

Responsible for <u>all</u> bidding and construction documents. Construction observation of three contracts. Lead consultant for construction administration/management.

Cabell County/WVAW

\$18.0 million

Boone County Regional Water Supply System

Responsible for construction specifications, bidding and contract documents, and bidding phase services. Boone County/WVAW/HUD/ARC/AML/EDA et. al. \$31.5 million

WV Route 34 to Hamlin Water Supply

Extension Responsible for all basic engineering services including bidding phase, construction phase and construction observation. WVAW \$1.0 million

North Cabell Ridge Water Main Extensions

Construction observation only.

Cabell County/WVAW

\$1.0 million



WATER LINES DESIGNED IN THE LAST FIVE YEARS

TERRADON CORPORATION WATER SYSTEM EXTENSIONS

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14 22 16 22 17 23 18 22 29 22 21 22 22 22 23 22 24 22 25 26 27 28 29 29 20 20 27 20 20	2000	ROBY ROAD BRIDGE WATER RELOCATION	CABELL	835								
15	2001	AVIS BRIDGE WATER RELOCATION	SUMMERS			400						
16	2001	TOWN RUN - AML	LEWIS				6500	800	1600			
17	2001	WITCHER CREEK - AML	KANAWHA			4040	15350		1890			
18	2002	GARRISON AVE. BOOSTER	KANAWHA		4000	400				1.		
19	2002	HAL GREER BLVD. RELOCATION	CABELL		4000	125	500	125	475			
20	2002	LEFT FORK UNION RIDGE EXTENSION KANAWHA CO 2003 EXTENSIONS	KANAWHA				36500 24500	8500 19000	7000 10500			
21 22 23 24 24 25 25 26 25 26 26 26 26 26 26 26 26 26 26 26 26 26	2003	LINCOLN CO. 911 CENTER EXTENSION	LINCOLN				2765	35	25			
22	2003	GLEN JEAN ARMORY EXTENSION	FAYETTE				2200					
233 202 24 202 25 26 27 26 27 28 29 20 39 20 31 22 33 20 35 20 37 21 38 20 38	2003	UPPER FRAME PHASE LEXTENSION	KANAWHA				58000	7000	6000	1	1	150.000
24 20 20 20 20 20 20 20 20 20 20 20 20 20	2003	PENNSYLVINIA AVE. REINFORCEMENT	KANAWHA	. 1250			30200	1000	5000		····	
255 22 22 22 22 22 22 2	2003	BELLE AVE. / DUPONT REINFORCEMENT	KANAWHA	1810	20							
28	2004	ROBINSON CREEK RELOCATION	BOONE				860		180			
27 202 28 202 29 203 30 203 31 202 32 203 33 203 35 203 36 203 37 213 38 203 38 203 39 203 40 204 41 204 42 204 44 204 45 204 46 205 50	2004	MARTHA BRIDGE RELOCATION	CABELL					1800				
29	2004	ELK TWO MILE RELOCATION	KANAWHA			520			205			
29	2004	BELLPOINT BRIDGE RELOCATION	SUMMERS			1110						
31 22 32 20 33 20 34 20 35 20 36 20 37 21 38 20 40 20 41 20 42 20 44 20 44 20 44 20 45 20 46 20 47 20 48 20 49 20 49 20 40 20 50	2004	HICKORY RIDGE TANK	CABELL								1	139;000
32 22 33 33	2004	YATES CROSSING RELOCATION	CABELL				975		85			
33	2005	FORT LEE REINFORCEMENT	Hopewell, VA			3740	3765	130	160			
34 22 35 22 36 22 37 21 38 22 39 22 40 21 41 22 44 21 44 21 44 21 45 22 48 22 49 22 50 3 50 3 50 2 51 2 52 53 2 55 2 56 2 57 2 58 2 59 2 50 2 5	2005	ROCK BRANCH RELOCATION	PUTNAM					670				
35 20 36 20 37 38 28 28 28 28 28 28 28	2005	PINCH TANK	KANAWHA								1	750,000
38	2005	DOW WATER RELOCATION	KANAWHA	3500	508	4770	4605					
37 21 33 34 32 35 36 32 37 38 38 38 38 38 38 38 38 38 38 38 38 38	2005 2005	OAK HILL WATER MAIN REINFORCEMENT LINCOLN CO, HIGH SCHOOL EXTENSION	LINCOLN			1770 2050	1695 1530				<u> </u>	
38 24 39 24 40 24 41 22 42 24 43 24 45 22 48 22 49 24 49 24 50	2005	ELK RIVER 16" REINFORCEMENT	KANAWHA		9950	500	120		.			
40 2 44 4 4 2 44 4 2 45 47 2 48 2 48 2 48 2 48 2 48 2 48 2 48 2	2005	LOCHGELLY ROAD RELOCATION	FAYETTE	.——— 	9930	1650	1100	500				***
40 2 44 4 4 2 44 4 2 45 47 2 48 2 48 2 48 2 48 2 48 2 48 2 48 2	2005	HERBERT HOOVER HIGH SCHOOL EXTENSION	KANAWHA			2500	250					
41 24 24 44 24 45 22 46 22 46 22 25 22 22 22 22 22 22 22 22 22 22 22	2005	MT, ZION EXTENSION	SUMMERS			2000	2260	80	580	4		
42 2 24 43 2 24 44 21 45 22 48 22 47 24 48 22 48 21 50 3 50 3 51 22 55 2 2 55 2 2 55 2 2 56 2 57 2 60 2 61 2 60 2 61 2 62 2 63 2 64 2 65 2 66 2 67 2 68 2	2005	SEGAR HILL EXTENSION	WAYNE				11500		580 750	*		[
43 20 44 21 45 22 46 20 47 24 48 22 48 22 48 22 50 32 51 22 52 22 53 22 55 22 56 22 57 22 58 22 56 22 57 22 58 22 59 22 60 22 60 23 61 23 62 22 63 22 64 22 65 22 66 22 67 22 68 22 66 22 67 23 68 22 68 22 69 22 60	2005	RT 60 REINFORCEMENT	CABELL		9500		200	,		25 3 3 3 2 7	7. 37 s	
45 24 46 20 47 22 48 24 25 25 25 25 25 25 25 25 25 25 25 25 25	2005	POCATALICO BOOSTER.	KANAWHA							1	1,11	
48 24 47 24 48 24 48 24 49 24 49 24 49 24 49 24 49 24 49 24 49 24 49 24 49 24 49 24 49 24 49 24 49 24 49 24 49 24 49 24 24 24 24 24 24 24 24 24 24 24 24 24	2005	BACK FORK ELK RIVER EXTENSION	WEBSTER				10950	2945	2110			
47 22 48 20 49 22 50 2 51 2 52 2 53 2 54 2 55 2 56 2 56 2 57 2 58 2 59 2 60	2005	3RD AVENUE REINFORCMENT	CABELL		5300		450	100		·		
48 20 49 20 50 20 51 20 52 20 53 20 54 20 55 20 56 20 57 20 58 20 50 50 50 50 50 50 50 50	2005	ELK RIVER 12" REINFORCEMENT	KANAWHA			11500		100				L
48 24 50 24 51 24 52 2 25 53 24 55 2 25 55 2 25 55 2 25 56 24 57 22 58 24 59 24 60 24 61 24 62 26 63 24 64 22 66 24 67 26 68 26 68 27 68 27 6	2006	KELLYS CREEK RELOCATION	KANAWHA				105	i	260		<u> </u>	_
50 22 55 22 55 22 55 22 55 22 55 22 55 22 56 22 57 57	2008	CHESAPEAKE RELOCATION	KANAWHA				890		115			ı .
51 22 25 52 22 55 22 57 22 55 22 57		PEYTONA ESTATES	BOONE									
52 2 2 2 3 5 3 2 2 5 5 4 2 2 5 5 6 2 2 5 5 6 2 2 5 6 0 2 2 6 0 2 2 6 0 2 2 6 6 6 2 2 6 7 2 2 6 8 2 2 7 7 0 2 7 7 0 2 7 7 0 2 7 7 0 2 7 7 0 2 7 0 7 0	2006			1				1040	4155	1.		
53 20 54 22 55 22 56 22 57 22 58 22 59 22 60 22 61 22 63 22 64 22 66 22 66 22 67 2 68 2 68 2 68 2 68 2 68 2 68 2 68 2 68 2 68 2 69 2 60 2	2006 2006	WEST HAMLIN REINFORCEMENT	LINCOLN			1670		1040	4155			
54 22 55 2 56 2 57 2 58 2 59 2 60 2 61 2 61 2 63 2 64 2 65 2 66 2 67 2 68 2 70 2	2006 2006 2006	QUEEN SHOALS BOOSTER	LINCOLN CLAY			1870			4155	., 1		
56 2 57 2 58 2 59 2 60 2 61 2 62 2 63 2 64 2 65 2 66 2 67 2 68 2 69 2 70 2	2006 2006 2006 2006	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION	LINCOLN CLAY BOONE			1870		731	4155			
56 2 57 2 58 2 59 2 60 2 61 2 62 2 63 2 64 2 65 2 66 2 67 2 68 2 69 2 70 2	2006 2006 2006 2006 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION	LINCOLN CLAY BOONE PUTNAM			1870	776		4155			
57 25 58 25 59 25 60 25 61 25 63 25 64 26 65 26 66 25 66 25 67 27 68 26 69 27 70 22	2006 2006 2006 2006 2006 2006	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OL EXTENSION	LINCOLN CLAY BOONE PUTNAM FAYETTE			1670	775	731 3850	н			
58 20 59 20 60 20 61 20 63 20 64 20 65 20 66 20 67 20 68 20 69 20 70 20	2006 2006 2006 2006 2005 2006 2006	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION UPPER FRAME PHASE IL EXTENSION UPPER FRAME PHASE IL EXTENSION	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA			1670	36600	731 3850 23730	10700			
59 20 60 20 61 20 63 20 64 20 65 20 66 20 67 20 68 20 70 20	2006 2006 2006 2006 2006 2006 2006 2008 2006	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OIL EXTENSION UPPER FRAME PHASE II EXTENSION CABELL CO 2008 EXTENSIONS	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL			1870		731 3850	н		1	1,000,000
60 2 61 2 52 2 63 2 64 2 65 2 66 2 67 2 88 2 59 2 70 2	2006 2006 2006 2006 2005 2006 2006	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION UPPER FRAME PHASE IL EXTENSION UPPER FRAME PHASE IL EXTENSION	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER		*	1870	36600	731 3850 23730	10700		1	1,000,000
61 2: 52 2: 63 2: 64 2: 65 2: 66 2: 67 2: 68 2: 69 2: 70 2:	2006 2006 2006 2006 2005 2006 2006 2006	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OIL EXTENSION UPPER FRAME PHASE II EXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL				35600 19275	731 3850 23730	10700		1	1,000,000
52 2 63 2 64 2 65 2 66 2 67 2 68 2 69 2 70 2	2006 2006 2006 2006 2008 2008 2008 2008	CUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OL EXTENSION UPPER FRAME PHASE I EXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HOPEWEIL, VA CABELL KANAWHA				36600	731 3850 23730	10700 15652		1	
63 2 64 2 65 2 66 2 67 2 68 2 69 2 70 2	2006 2006 2006 2006 2008 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OL EXTENSION UPPER FRAME PHASE ILEXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMLE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH / GUTHRIE	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HOPEWEIL VA CABELL KANAWHA KANAWHA KANAWHA			2465 14300 2800	35600 19278 150 8700	731 3850 23730	10700		1	1,000,000
65 2 66 2 87 2 88 2 69 2 70 2	2006 2006 2006 2006 2008 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OIL EXTENSION UPPER FRAME PHASE IL EXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMUE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH / GUTHRIE CLENDENIN EXTENSION	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HOPEWEIL VA CABELL KANAWHA KANAWHA KANAWHA		*	2465 14300	35600 19276	731 3650 23730 53574 7000 700	10700 15652 1760 500	1	1	
66 2 67 2 68 2 69 2 70 2	2006 2006 2006 2006 2008 2008 2008 2008	CLIEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OIL EXTENSION UPPER FRAME PHASE ILEXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMILE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHESS BRANCH / GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HOPEWEIL, VA CABELL KANAWHA KANAWHA KANAWHA KANAWHA KANAWHA			2465 14300 2800 15000	35600 19278 150 8700	731 3650 23730 53574 7000	10700 15652 1760	1	1	
67 2 68 2 69 2 70 2	2006 2006 2006 2006 2006 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OL EXTENSION UPPER FRAME PHASE ILEXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMLE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH / GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS RT 2 REINFORCEMENT	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HODEWEIL, VA CABELL KANAWHA KANAWHA KANAWHA KANAWHA KANAWHA KANAWHA CABELL KANAWHA CABELL		· · · · · · · · · · · · · · · · · · ·	2465 14300 2800 15000	35600 19276	731 3650 23730 53574 7000 7000 33000	10700 15652 1760 500	1	1	
68 2 69 2 70 2	2006 2006 2006 2006 2006 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OIL EXTENSION UPPER FRAME PHASE II EXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMUE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH / GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS RT 2 REINFORCEMENT FORT LEE REINFORCEMENT	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HODBWGI, VA KANAWHA KANAWHA KANAWHA FOTNAM CABELL C			2465 14300 2800 15000 5500 3550	35600 19276	731 3850 23730 53574 7000 700 33000	10700 15652 1760 500	1	1	
69 2 70 2	2006 2006 2006 2006 2008 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OL EXTENSION UPPER FRAME PHASE II EXTENSION UPPER FRAME PHASE II EXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMILE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH / GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS RT 2 REINFORCEMENT FORT LEE REINFORCEMENT SISSOMMULE DRIVE RELOCATION	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HOPEWEII, VA CABELL KANAWHA KANAWHA KANAWHA KANAWHA CABELL HOPEWEII, VA HOPEWEII, VA HOPEWEII, VA			2485 14300 2800 15000 5500 3550 5800	36600 19278 150 8700 3350 24000	731 3650 23730 53574 7000 7000 33000	10700 15652 1760 500	1	1	
70 2	2006 2006 2006 2006 2008 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OL EXTENSION UPPER FRAME PHASE ILEXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMLE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH I GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS RT 2 REINFORCEMENT FORT LEE REINFORCEMENT ISSOMILLE DRIVE RELOCATION CATHCART DEVELOPMENT	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HODEWHI, VA CABELL KANAWHA KANAWHA KANAWHA KANAWHA KANAWHA KANAWHA KANAWHA HODEWEI, VA CABELL HODEWEI, VA CABELL HODEWEI, VA PUTNAM			2465 14300 2800 15000 5500 3550	36600 19278 19278 150 8700 3350 24000	731 3650 23730 53574 7000 700 33000 220 250	10700 15652 1760 500 6310	1	1	
	2006 2006 2006 2006 2008 2008 2008 2008	CLIEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OL EXTENSION UPPER FRAME PHASE ILEXTENSION UPPER FRAME PHASE ILEXTENSION NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMILE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHESS BRANCH / GUTHRIE CLENDENIN EXTENSION RT 2 REINFORCEMENT SISSONMILE DRIVER RELOCATION SISSONMILE DRIVE RELOCATION CATHCART DEVELOPMENT WASHINGTON WOODS SUBDIVISION	LINCOLN CLAY BOONE PUTIVAM FAYETTE KANAWHA CABELL MERCER HOD BWWII, VA CABELL KANAWHA KANAWHA KANAWHA FUTIVAM PUTIVAM	-		2465 14300 2800 15000 5500 3550 5800 3639	36800 19278 150 8700 3350 24000 7654 620	731 3850 23730 53574 7000 700 33000	10700 15652 1760 500	1	1	
	2006 2006 2006 2006 2008 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OL EXTENSION UPPER FRAME PHASE ILEXTENSION UPPER FRAME PHASE ILEXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMILE GREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH / GUTHRIE CLENDENIN EXTENSION PUTRAM CO 2007 EXTENSIONS RT 2 REINFORCEMENT FORT LEE REINFORCEMENT FORT LEE REINFORCEMENT SISSOMMULE DRIVE RELOCATION CATHCART DEVELOPMENT WASHINGTON WOODS SUBDIVISION FAIRMONT WATER PARK	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HODEWEI, VA CABELL KANAWHA KANAWHA KANAWHA KANAWHA CABELL HODEWEI, VA KANAWHA JACKSON MARION			2485 14300 2800 15000 5500 3550 5800	36800 19278	731 3650 23730 53574 7000 700 33000 220 250	10700 15652 1760 500 6310	1	1	
	2006 2006 2006 2006 2008 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OIL EXTENSION UPPER FRAME PHASE II EXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMILE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER PHENES BRANCH I GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS RT 2 REINFORCEMENT FORT LEE REINFORCEMENT SISSOMILLE DRIVE RELOCATION CATHCART DEVELOPMENT WASHINGTON WOODS SUBDIVISION FAIRMONT WATER PARK WY TURNPIKE COMMISSION EXTENSION	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HOPWIN, VA CABELL KANAWHA RANAWHA FUTNAM PUTNAM JACKSON MARION MERCER			2465 14300 2800 15000 5500 3550 5800 3639	36800 19278 150 8700 3350 24000 7654 620	731 3650 23730 53574 7000 700 33000 220 250	10700 15652 1760 500 6310	1	1	
	2006 2006 2006 2008 2008 2008 2008 2008	GUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OL EXTENSION UPPER FRAME PHASE II EXTENSION UPPER FRAME PHASE II EXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMILE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH / GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS RT 2 RENFORCEMENT FORT LEE REINFORCEMENT FORT LEE REINFORCEMENT SISSOMMILE DRIVE RELOCATION CATHCART DEVELOPMENT WASHINGTON WOODS SUBDIVISION FAIRMONT WATER PARK WY TURNPIKE COMMISSION EXTENSION TOAK HILL WAN STREET REINFORCEMENT	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HODEWEII, VA CABELL KANAWHA KANAWHA KANAWHA KANAWHA FUTNAM PUTNAM PUTNAM PUTNAM PUTNAM JACKSON MARION MERCER FAYETTE	-		2465 14300 2800 15000 5500 3550 5800 3639	35600 19278 150 8700 24000 7654 820 345 6600	731 3650 23730 53574 7000 700 33000 220 250	10700 15652 1760 500 6310	1	1	
74 CUF	2006 2006 2006 2006 2008 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OL EXTENSION UPPER FRAME PHASE ILEXTENSION UPPER FRAME PHASE ILEXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HÖPEWELL REINFORCEMENT SEVENMILE GREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH / GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS RT 2 REINFORCEMENT FORT LEE REINFORCEMENT SISSOMMILE DRIVE RELOCATION CATHCART DEVELOPMENT WASHINGTON WOODS SUBDIVISION FARMONT WATER PARK WY TURNPIKE COMMISSION EXTENSION OAK HILL MAIN STREET REINFORCEMENT SAWMILL VILLAGE / SNOWSHOE	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HODEWIN, VA CABELL KANAWHA KANAWHA KANAWHA CABELL HODEWEI, VA KANAWHA LABELL HODEWEI, VA HODEWEI, VA MARION MERCER FAYETTE FOCAHONTAS			2465 14300 2800 15000 5500 3550 5800 3639	35600 19278 150 8700 3350 24000 7654 620 345 6600	731 3650 23730 53974 7000 7000 33000 220 250 3119	10700 15652 1760 500 6310	1	1	
	2006 2006 2006 2006 2008 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OIL EXTENSION UPPER FRAME PHASE II EXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMILE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH I GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS RT 2 REINFORCEMENT FORT LEE REINFORCEMENT FORT LEE REINFORCEMENT FORT LEE REINFORCEMENT FORT LEE REINFORCEMENT FORT LER REINFORCEMENT OCATHCART DEVELOPMENT WASHINGTON WOODS SUBDIVISION FAIRMONT WATER PARK WY TURNPIKE COMMISSION EXTENSION LOAK HILL MAIN STREET REINFORCEMENT SAWMILL VILLAGE / SNOWSHOE KANAWHA CO 2009 EXTENSIONS	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HODBWGI, VA CABELL KANAWHA KANAWHA FUTNAM CABELL KANAWHA PUTNAM PUTNAM JACKSON MARION MERCER FAYETTE FOCAHONTAS			2465 14300 2800 15000 5500 3550 5800 3639	35600 19278 150 8700 24000 7654 820 345 6600	731 3860 23730 53974 7000 700 33000 220 250 3119	10700 15652 1760 500 6310 2912	1	1	
 - - -	2006 2006 2006 2006 2008 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OL EXTENSION UPPER FRAME PHASE ILEXTENSION UPPER FRAME PHASE ILEXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HÖPEWELL REINFORCEMENT SEVENMILE GREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH / GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS RT 2 REINFORCEMENT FORT LEE REINFORCEMENT SISSOMMILE DRIVE RELOCATION CATHCART DEVELOPMENT WASHINGTON WOODS SUBDIVISION FARMONT WATER PARK WY TURNPIKE COMMISSION EXTENSION OAK HILL MAIN STREET REINFORCEMENT SAWMILL VILLAGE / SNOWSHOE	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HODEWIN, VA CABELL KANAWHA KANAWHA KANAWHA CABELL HODEWEI, VA KANAWHA LABELL HODEWEI, VA HODEWEI, VA MARION MERCER FAYETTE FOCAHONTAS			2465 14300 2800 15000 5500 3550 5800 3639	35600 19278 150 8700 3350 24000 7654 620 345 6600	731 3650 23730 53974 7000 7000 33000 220 250 3119	10700 15652 1760 500 6310	1	1	
	2006 2006 2006 2006 2008 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OIL EXTENSION UPPER FRAME PHASE II EXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMILE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH I GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS RT 2 REINFORCEMENT FORT LEE REINFORCEMENT FORT LEE REINFORCEMENT FORT LEE REINFORCEMENT FORT LEE REINFORCEMENT FORT LER REINFORCEMENT OCATHCART DEVELOPMENT WASHINGTON WOODS SUBDIVISION FAIRMONT WATER PARK WY TURNPIKE COMMISSION EXTENSION LOAK HILL MAIN STREET REINFORCEMENT SAWMILL VILLAGE / SNOWSHOE KANAWHA CO 2009 EXTENSIONS	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HODBWGI, VA CABELL KANAWHA KANAWHA FUTNAM CABELL KANAWHA PUTNAM PUTNAM JACKSON MARION MERCER FAYETTE FOCAHONTAS			2465 14300 2800 15000 5500 3550 5800 3639	35600 19278 150 8700 3350 24000 7654 620 345 6600	731 3860 23730 53974 7000 700 33000 220 250 3119	10700 15652 1760 500 6310 2912	1	1	
	2006 2006 2006 2006 2008 2008 2008 2008	QUEEN SHOALS BOOSTER ASHFORD BRIDGE RELOCATION ELEANORE EXTENSION BALL OIL EXTENSION UPPER FRAME PHASE II EXTENSION CABELL CO 2008 EXTENSIONS NEW HOPE TANK HOPEWELL REINFORCEMENT SEVENMILE CREEK RELOCATION RABEL MOUNTAIN EXTENSION UPPER FISHERS BRANCH I GUTHRIE CLENDENIN EXTENSION PUTNAM CO 2007 EXTENSIONS RT 2 REINFORCEMENT FORT LEE REINFORCEMENT FORT LEE REINFORCEMENT FORT LEE REINFORCEMENT FORT LEE REINFORCEMENT FORT LER REINFORCEMENT OCATHCART DEVELOPMENT WASHINGTON WOODS SUBDIVISION FAIRMONT WATER PARK WY TURNPIKE COMMISSION EXTENSION LOAK HILL MAIN STREET REINFORCEMENT SAWMILL VILLAGE / SNOWSHOE KANAWHA CO 2009 EXTENSIONS	LINCOLN CLAY BOONE PUTNAM FAYETTE KANAWHA CABELL MERCER HODBWGI, VA CABELL KANAWHA KANAWHA FUTNAM CABELL KANAWHA PUTNAM PUTNAM JACKSON MARION MERCER FAYETTE FOCAHONTAS	7396		2465 14300 2800 15000 5500 3550 5800 3639	35600 19278 150 8700 3350 24000 7654 620 345 6600	731 3860 23730 53974 7000 700 33000 220 250 3119	10700 15652 17662 1760 500 6310 2912 11000	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

1,140,661 216,0 TOTAL LF MILES



REFERENCES



The firm has built its reputation by providing cost effective design solutions and maintaining the highest level of customer service





The following references are specifically provided as having particular knowledge of TERRADON's work on similar projects.

Brian Donat

County Administrator

Putnam County Commission
304-586-0201

Dave Broschart, P.E.

Construction Engineer

WVDEP - Office of Abandoned Land Mines &

Reclamation, Philippi Office

304-457-3219

Mark Sankoff, P.E.

Operations Engineer

West Virginia American Water
304-340-2974

Patty Lee
Salt Rock Water PSD
304-736-6315

David Thomas

General Manager

Montgomery Sanitary Board

Montgomery, WV

304-442-8182



HARVEY "BUD" Mc CALLISTER, JR., P.E. SENIOR CIVIL ENGINEER

Mr. McCallister has more than 35 years of experience in planning, design, funding, permitting, and construction management of water and wastewater projects thoughout West Virginia. He has worked for various West Virginia based consulting firms as well as regulatory agencies. His experience includes all types of water and wastewater projects, from collection and distribution to design of treatment plants.

EDUCATION

B.S. Civil Engineering, 1969, West Virginia University

M.S. Civil Engineering - Sanitary Engineering, 1972, West Virginia

University

REGISTRATION

Professional Engineer: West Virginia, Ohio, Kentucky, Virginia, Maryland

Work

2007 - Present TERRADON Corporation

EXPERIENCE

1977 - 2007 Various consu

Various consulting firms and WV-DEP, WV-BPH

PROJECTS

Project Engineer and/or Project Manager for distribution system improvements in rural settings including booster stations, water storage tank and 6 inch or larger transmission lines include Clay Roane PSD, Walton PSD, Newton PSD, City of St. Marys, Salt Rock PSD, and Sissonville PSD.

Project Engineer and/or project manager for distribution system improvements in urban settings and within existing systems include City of Buckhannon, City Parsons, City of Fairmont, City of Ravenswood, Town of West Union, City of Logan, and City of Glenville.



JAMES A NAGY, PE PROJECT MANAGER CIVIL ENGINEER

Mr. Nagy performs civil engineering related to water and waste water projects at TERRADON. He specializes in the design of water treatment and distribution systems. He has over 23 years of on-hand experience providing engineering for the largest private water company in West Virginia.

REGISTRATION Professional Engineer: West Virginia

EDUCATION B. S. Civil Engineering, 1974, West Virginia University

Work	2007 - Present	TERRADON Corportation
EXPERIENCE	1984 - 2007	West Virginia American Water
	1982 - 1984	WV DNR
	1978 - 1982	VTN, Inc, Consulting Engineers
	1975 - 1978	Various Engineering Positions

PROJECT

West Virginia American Water Company

EXPERIENCE

Responsible for completion of comprehensive planning studies for operating companies to evaluate their systems and make recommendations for capital improvements.

Analysis of transmission & distribution systems by computerized hydraulic modeling techniques.

Management of large scale water projects involving supervision of engineering consultants and coordination with local operating companies, through planning, design and construction.

Preparation of contract documents, plans & specifications, miscellaneous agreements, etc. required for construction of water transmission and distribution projects, booster stations, and water storage tanks.

Review of proposed capital projects and prepare supporting memoranda documenting need, scope of project, budget/schedule, detailed cost estimate, etc.



JONATHAN GILLENWATER PROJECT TECHNICIAN

Jonathan Gillenwater is TERRADON'S Project Technician for water and waste-water projects. He has 20 years of experience in utility administration, construction, and inspection. Since joining TERRADON he has been responsible for overseeing construction of water and wastewater construction projects.

Work	2008 - Present	TERRADON
EXPERIENCE	2005 - 2007	Landair Transportation
	2002 - 2005	M. B. Kahn Construction
	2000 - 2002	Jones Lang LaSalle
	1999 - 2000	Charleston Housing Authority
	1997 - 1999	Putnam County Development Authority
	1996 - 1997	Putnam County Office of Planning and Infrastructure
	1987 - 1996	Kelly Gidley Blair & Wolfe Consulting Engineers

PROJECT EXPERIENCE

Coordinated activities of numerous groups to complete construction of \$8.5 waste treatment facilities for Toyota Motor Manufacturing of West Virginia. Project also addressed short-term and long-term waste treatment needs of the Town of Buffalo.

Initiated master plans for water and sewer construction within Putnam County, coordinating efforts between public and private companies vying for same service areas. Prepared draft ordinances addressing issues with storm-water management in developed areas of Teays Valley.



2007 - Present

WARD GREEN PROJECT REPRESENATIVE

Mr. Green has over 30 years of experience in utility administration, construction, and inspection. He has been responsible for overseeing construction of many water and wastewater construction projects.

PROFESSIONAL CERTIFICATIONS

- Sub-Part P Excavation and Trenching Standards
- OSHA 10 Hour Voluntary Compliance Cource
- West Virginia Department of Health Backflow Prevention Inspector/Tester

Work Experience

2004 -2007 Diversified Enterprise, Inc., Utility Construction	n
2002 -2003 Dunn Engineers	
2001 -2002 E & D Mountainview Construction Company	
1998 -2001 TERRADON Corporation	
1975 -1998 Various Consultants and Utility Construction F	irms

TERRADON Corporation

PROJECT EXPERIENCE

Mr. Green has been the lead Project Representative for many wastewater projects. His projects include:

- Kanawha Falls PSD, Water and Wastewater Systems
- Pea Ridge PSD Wastewater Treatment Plant and Pump Station Improvements
- Armstrong Creek PSD, Wastewater Interceptor and Collection Lines
- Flatwoods Canoe-Run PSD, Water and Wastewater System Improvements
- · City of Vienna, Sanitary Sewer Evaluation Project
- · Salt Rock PSD, Wastewater Treatment Plant Site Grading
- Mt. Tyler PSD, Wastewater System Improvements Interceptor and Collection
- Town of Matoaka, Water and Wastewater System Improvements
- City of Beckley, Federal Prison Wastewater System Force Mains and Pumps
- Armstong Creek PSD, Wastewater Improvements
- Town of Grantsville, Wastewater Treatment Plant & Sanitary Sewer Evaluation
- City of Charleston Park Avenue Sewer Project



KEVIN GARNES SENIOR CADD DESIGNER

Mr. Garnes is vastly experienced in the design, specification development and preparation of construction documents for water and wastewater treatment plants, water storage tanks, distribution systems, sanitary sewer pump stations, sewer collection systems including stormwater, and stormwater retention structures.

EDUCATION

Various Engineering and Technical Classes, 1984-Present

Attended West Virginia State College

Attended West Virginia Institute of Technology

Work

1994-Present

TERRADON Corporation

EXPERIENCE

1993-1994

Chapman Technical Group

1979-1993

Kelley, Gidley, Blair & Wolfe, Inc.

1977-1979

Geotech Engineers

PROJECT EXPERIENCE Water treatment plant, water storage tanks and distribution systems:

Gassaway/Sutton Water Treatment Plant Madison Water Treatment Plant Renovations West Virginia - American Water Company

Hooverson Heights Water Treatment Plant Hooverson Heights P.S.D.

Brunswick Water Treatment Plant Renovations Brunswick, Maryland

Charles Town Water Treatment Plant City of Charles Town, West Virginia

City of Grafton Water System Improvements Grafton, West Virginia

Sissonville Public Service District Sissonville, West Virginia

Clay/Roane Public Service Districts Clay and Roane Counties, West Virginia



Personnel Resumes

BRUCE FRAME TESTING & INSPECTION MANAGER

Bruce Frame is TERRADON'S Manager of Construction Inspection and Materials Testing. He has 35 years of experience in materials testing in the Materials Section of the West Virginia Department of Transportation, Division of Highways. Since joining TERRADON in 2000 he has been responsible for material testing and inspection on a wide variety of construction projects.

PROFESSIONAL CERTIFICATIONS

- NICET Level 3 Engineering Technician
- West Virginia Certified Portland Cement Concrete Technician & Insp.
- West Virginia Certified Aggregate Inspector
- West Virginia Certified Hot Mix Asphalt Technician & Inspector
- Fairmont State College Engineering Technician/Technologist Certification Program #1727 Level III - TET

Work

2000 - Present

TERRADON

EXPERIENCE

1966- 2000

WV Department of Transportation, District 1

PROJECT EXPERIENCE

Notable recent projects Mr. Frame was responsible for include:

WVDOH Materials Control, Soil and Testing Division Headquarters

Point Pleasant River Front Park

Upper Kanawha County Community Building

State Route 34 Widening

US 35 - Interstate 64 Interchange

WV Corridor G

WV Corridor H

WV Corridor D

Coalfields Expressway

Merritts Creek Connector

Odaville Bridge

Dunlaugy Bridge

Culloden Bridge

WV Turnpike Signage

Hal Greer Blvd Widening



WALTER FREDERICK HALSTEAD CHIEF RESIDENT PROJECT REPRESENATIVE

Fred Halstead is TERRADON'S Chief Resident Project Representative. He has 23 years of experience in utility administration, construction, and inspection. Since joining TERRADON in 1999 he has been responsible for overseeing construction of many water and wastewater construction projects.

Professional Certifications

- West Virginia Certified Portland Cement Concrete Technician
- · West Virginia Certified Compaction Technician

Work Experience

1999 - Present

TERRADON

1989 -1999

Town of Eleanor, Class II Water System Operator

1989 -1989

Coralyn Water Company, Class II Water Sys. Operator

1979 - 1984

Putnam County Parks & Recreation

TRAINING

WVDOT Portland Cement

Hazardous Material Response Hazardous Materials Incident Analysis

Firemanship II

Valve and Hydrant Maintenance

WVDOT Compaction Lead & Copper Testing

OSHA Hazardous Materials

Radiation Safety
Arson Investigation

Project Experience Mr. Halstead has been the lead Project Representative on most water and wastewater projects for TERRADON since starting with the company in 1999. He has overseen construction of numerous water distribution projects as well

as sewer collection systems.

ACTIVITIES

Serving fourth term as Mayor of the Town of Eleanor, West Virginia

Town of Eleanor Sanitation Department Board Chair Town of Eleanor Police Department Board Chair Town of Eleanor Fire Chief (over 10 years)

