

**RICHMOND CITY COUNCIL MEETING, NOVEMBER 14, 2016
PUBLIC COMMENT PERIOD
REEDY CREEK STREAM/RELOCATION**

TREES are an important resource. We are a tree city, named so by the National Arbor Foundation. We have tree stewards who bring acclaim to our city. We once had a functioning Urban Forestry commission. Our mayor once had a goal of planting 20000 trees.

Our parks are important to community health and well-being. Trees and parks improve property values, which brings in more tax revenue. Trees in an area reduce the incident of crime.

Trees really can't be beat at dealing with stormwater runoff. Their leaves and branches and bark slow the rain and allow the ground below time to absorb it. Their leaf litter softens the ground so it can absorb more of the water.

Tree canopy over the stream shades the water. This makes it harder for algae to thrive because they need the sun to make food. More dissolved oxygen stays in the water, which is an indicator of a healthy stream.

Trees provide habitat for birds, deer, possum and other critters. Tearing down this forest will force animals onto Crutchfield, Forest Hill Avenue, Westover Hills Avenue and Midlothian Turnpike. It will cause many species of birds to leave in search of other canopies.

This project area is unique. There is no other area like it in the city. The trees and understory plants in this project area are diverse. If you remove this resource, our city will be poorer in its attraction to new residents and employers. It will be poorer in lost property tax value. It will be poorer because it has wasted taxpayer money and stormwater fees on this project that is doomed to fail.

Document for City Council Concerning Ordinance # 2016-217

Prepared by the Reedy Creek Coalition

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Appendix G – Comments from Professional Archeologist suggesting that a Phase II Historical Review be performed.

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Appendix J – Summary of observations and conclusions from the Reedy Creek Coalition resulting from visit to Snakeden Creek

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Appendix A

Petition Results

A total of 898 people signed the on-line petition that is provided on the next page. A minimum of 729 of the people who signed are Richmond residents. In addition, another 75 people signed a hard copy of the petition at neighborhood events and 64 of these people are Richmond residents. The total number of Richmond citizens expressing opposition to the proposed Reedy Creek project is 793. We urge you to read some of the comments provided by the petition signers at:

<https://www.gopetition.com/petitions/stop-citys-plan-to-destroy-400-mature-trees-in-rva/signatures.html>

A hard copy of the last page of petitioners from the on-line petition is also provided in this Appendix. Complete information has already been provided electronically to each City Council member to save paper and copying costs.

Stop City's Plan to Destroy 400+ Mature Trees in #RVA

Petition published by Reedy Creek Coalition on Mar 13, 2016

Background (Preamble):

The City of Richmond has proposed to do a stream restoration on Reedy Creek between 46th Street and Roanoke Avenue. The project also includes a smaller section of stream restoration on Crooked Branch, a small tributary that flows through a passive park (Crooked Branch Ravine Park). Overall, the project will destroy 7.4 acres of mature woods, much of it on park property.

A total of 424 mature trees will be removed, mostly along or near stream banks - trees that are currently preventing massive erosion due to the large volume of stormwater that roars through the area. In an attempt to make this destruction more palatable, Richmond DPU and its design consultants have tried to characterize the trees as non-native (October 2015 meeting), lacking in diversity (printed flyer delivered to neighborhood homes), and "less desirable" (Feb. 23, 2016 meeting). In reality, nearly all of the 424 trees are native trees that have grown up in the area naturally because the area has been more or less undisturbed for decades. While the project will involve the planting of new trees, the city has a poor history of maintaining stream restoration projects.

In addition to the destruction of mature forest, the Reedy Creek Coalition has documented other major concerns about the proposal (<http://reedycreekcoalition.org/>). These reasons for opposition to the project include:

1. Lack of proper planning for selection of a stream restoration site. The city failed to perform a "stream condition assessment" which is the first step in site selection. Members of the Reedy Creek Coalition have walked most of Reedy Creek and there are multiple stream segments with severely eroded banks and even worse habitat.
2. High risk in the current proposal because it is located immediately below one mile of concrete channel that drains the Midlothian Turnpike corridor. See our website for pictures of the water rolling through the project area after a summer thunderstorm.
3. Low benefit in the current proposal because the water will often move through the project area so fast it will not have time to allow for infiltration and removal of pollutants. And the Chesapeake Bay will not benefit much because Forest Hill Park Lake is located just downstream and helps collect pollutants from the entire watershed.
4. The \$1.3 million proposal does little to address the source of the eroding banks and stream degradation which is stormwater volume. Guidance from the Chesapeake Bay Program says the following: "In general, the effect of stream restoration on stream quality can be amplified when effective upstream BMPs are implemented in the catchment to reduce runoff and stormwater pollutants and improve low flow hydrology."
5. Lack of a maintenance plan for the proposed stream restoration. At the meeting on February 23, 2016, Richmond DPU had no solid plans for maintenance. And the possibilities discussed at the meeting were inconsistent with the printed information the city provided to the neighborhood on a flyer. Members of the Reedy Creek Coalition recently visited a stream restoration performed under the direction of the city on Albro Creek (near the new Bellmeade-Oak Grove Elementary School) and found a stunning lack of maintenance that included multiple areas of eroding banks, dead trees, and invasive plants.
6. There are alternatives that would address the source of Reedy Creek degradation. The city commissioned a watershed plan published in 2012 that suggested green infrastructure solutions at schools and other city-owned property which would reduce stormwater volume and pollutants entering Reedy Creek. The city has ignored this plan which made no suggestions about stream restoration projects.
7. TMDL Action Plan. Based on the meeting on February 23, 2016, the city is undertaking this proposal primarily to meet its responsibilities under the Chesapeake Bay TMDL. Yet, the numbers in the city's Chesapeake Bay TMDL Action Plan show that the Reedy Creek stream restoration project would not be needed for many years. There is ample time to

formulate a comprehensive Reedy Creek watershed restoration plan and implement it systematically.

Please join us in expressing your opposition to the proposed Reedy Creek stream restoration project by signing our petition.

Petition Text:

We, the undersigned, oppose the stream restoration of Reedy Creek for the above reasons.

Total signatures 821 (Signature comments can be viewed in the Appendix of this document)

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
821	Jennifer	Douglas	N/G	Richmond	23225	N/G	Sep 25, 2016
820	catherine	spence	3600 Anne ST	richmond	23225	View	Sep 25, 2016
819	casey	ferguson	7821 14 way n.	st. petersburg	33702	N/G	Sep 24, 2016
818	Liz	McCauley	13119 Applegrove Lane	Herndon	20171	N/G	Sep 24, 2016
817	Kay	Patrick	1457 Ben Annie Rd	Gretna	24557	N/G	Sep 23, 2016
816	Michelle	Karpaitis	N/G	Virginia Beach	23451	N/G	Sep 23, 2016
815	Lauren	Dubovsky	3004 Porter Street	Richmond	23225	View	Sep 23, 2016
814	Lori	Duffy	1021 German School Road, Apt. 503	Richmond	23225	View	Sep 23, 2016
813	Andrew	Grigsby	3152 Forest Hill Ave	RICHMOND	23225	N/G	Sep 23, 2016
812	Janet	Tarasovic	4231 Saratoga Rd	Richmond	23235	N/G	Sep 23, 2016
811	James	Thomas	815 Spring St	Richmond	23220	N/G	Sep 22, 2016
810	Charles	Ellis	1701 16th Street, N.W.	Washington	20009	View	Sep 21, 2016
809	Chris	Whitmore	3253 Landria Drive	Richmond	23225	N/G	Sep 21, 2016
808	Melissa	Harl	3118 Woodrow Avenue	Richmond	23222	N/G	Sep 21, 2016
807	Emily	Klinedinst	2300 Y Street	Richmond	23223	N/G	Sep 20, 2016
806	Philip	Latasa	N/G	Clifton	20124	View	Sep 20, 2016
805	eric	stepp	1301 Landis	Richmond	23226	N/G	Sep 20, 2016
804	mark	perreault	950 hanover avenue	norfolk	23508	N/G	Sep 20, 2016
803	brian	spencer	N/G	Richmond	23220	N/G	Sep 20, 2016
802	Austin	Fitzgerald	702 montgomery st	Blacksburg	24060	N/G	Sep 20, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
801	Stephanie	Kane	1707 Grove Avenue	Richmond	23220	N/G	Sep 20, 2016
800	Ann	Woodlief	271 Guthries Green	Shacklefords	23156	View	Sep 20, 2016
799	Judi	Ellis	4506 Wythe Ave	Richmond	23221	View	Sep 20, 2016
798	Michael	Pyron	218 S. Boulevard #1	Richmond	23220	N/G	Sep 20, 2016
797	nancy	blodinger	6013 Mann Ave	Richmond	23226	N/G	Sep 19, 2016
796	Mary Ellen	Mercer	3232 West Franklin St.	Richmond	23221	View	Sep 19, 2016
795	Garet	Prior	118 W 34th Street	Richmond	23225	N/G	Sep 19, 2016
794	Marion	Macdonald	N/G	Richmond	2718 e franklin st	View	Sep 19, 2016
793	Grant	Matthews	N/G	Richmond	23225	View	Sep 19, 2016
792	CHRIS	ECKBERG	5103 DORCHESTER RD	RICHMOND	23225	View	Sep 19, 2016
791	Margaret	Tinsley	4604 Bromley Ln	Richmond	23226	N/G	Sep 19, 2016
790	Melanie	Snellings	1706 Decatur Street	Richmond	23224	N/G	Sep 19, 2016
789	Houston	Oldham	609 N 25th St	Richmond	23223	N/G	Sep 19, 2016
788	J	Stoneking	N/G	Colonial Heights	23834	View	Sep 19, 2016
787	Jeff	Weaver	4609 Augusta Ave	Richmond	23230	N/G	Sep 19, 2016
786	John	Moody	9184 breeders cup place	mechanicsville	23116	N/G	Sep 19, 2016
785	Paul	LeDuc	N/G	richmond	23220	N/G	Sep 19, 2016
784	holly	rhode	716 west 33rd st	richmond	23225	View	Sep 18, 2016
783	Cheryl	Marschak	1903 Fenton St	Richmond	23231	N/G	Sep 18, 2016
782	william	nelson	Va.	N/G	23229	View	Sep 18, 2016
781	Anne	Shultz	8814 Chippenham Rd	Richmond	23235	N/G	Sep 18, 2016
780	Patrick	Farley	4109 Hillcrest Rd.	Richmond	23225	View	Sep 18, 2016
779	Rhea	Calpeno	3215 Patterson ave	Richmond	23221	N/G	Sep 18, 2016
778	Michele	Rogers	1511 Hampton Street	Richmond	23220	View	Sep 18, 2016
777	Louis	Ross	2814 Semmes Ave	Richmond	23225	View	Sep 18, 2016
776	Jordan	Glunt	13313 Mulligan Court	Midlothian	23113	N/G	Sep 18, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
775	Lynn	Crookston	12370 Mount Hermon Rd.	Ashland	23005	N/G	Sep 18, 2016
774	matthew	rogers	1511 Hampton St	Richmond	23220	N/G	Sep 18, 2016
773	Georgianne	Stinnett	1226 Stanhope Avenue	Richmond	23227	View	Sep 18, 2016
772	David	Manoni	4702 Sylvan Rd.	Richmond	23225	N/G	Sep 18, 2016
771	Timothy	Morris	N/G	N/G	23225	N/G	Sep 18, 2016
770	Amanda	Hall	N/G	Richmond	23284	N/G	Sep 18, 2016
769	Henry	Blau	4532 New Kent Ave	Richmond	23225	N/G	Sep 18, 2016
768	Jenny	Rogers	6303 Cedar Croft	Richmond	23228	View	Sep 17, 2016
767	Phylliss	Moret	9307 Creeks Crossing Blvd	Richmond	23235	View	Sep 17, 2016
766	Cassandra	Lacey	3804 Forest Hill Ave	Richmond	23225	N/G	Sep 17, 2016
765	Christina	Newton	5533 Linwood Avenue	Richmond	23224	N/G	Sep 17, 2016
764	Raphael	Seligmann	1810 West Grace St.	Richmond	23220	N/G	Sep 17, 2016
763	Kendra	Morris	7515 Piney Branch Road	Richmond	23225	N/G	Sep 17, 2016
762	Joseph	Crane	3433 Ellwood	Richmond	23221	View	Sep 17, 2016
761	James	Gregg	617 W 32nd St. Apt. 1	Richmond City	23225	View	Sep 17, 2016
760	Bentley	Cobb Jr	5718 Stephens Point Court	Chester	23831	View	Sep 17, 2016
759	John	Kinter	1236 Warren Ave	Richmond	23227	N/G	Sep 17, 2016
758	Massimo	Bistocchi	Pine crest ave	Richmond	23225	N/G	Sep 17, 2016
757	Joe	Terry	4301 Newport Dr	Richmond	23227	N/G	Sep 17, 2016
756	BENJAMIN	LEONARD	2508 WEBBER AVE,	RICHMOND	23224-7716	N/G	Sep 17, 2016
755	Kent	Thompson	9401 FERNLEIGH DR	RICHMOND	23235	View	Sep 17, 2016
754	Ann	Burgess	3100 Kenmore Rd	Richmond	23225	N/G	Sep 17, 2016
753	Jeremy	Parker	6476 Barksdale Rd	Richmond	23231	N/G	Sep 17, 2016
752	Moonie	Tyler	3114 2nd Avenue	Richmond	23222	N/G	Sep 16, 2016
751	Sara	Borey	2501 Sturt Ave #A	Richmond	23220	N/G	Sep 16, 2016
750	A	Cummins	4032 Northrop street	Richmond	23225	N/G	Sep 16, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
749	Renate	Forssmann-Falck	819 West Broad Street	Richmond	23220	View	Sep 16, 2016
748	Jason	Alley	3601 E Marshall st	Richmond	23223	View	Sep 16, 2016
747	Emily	Sherald	810 W 46th St	Richmond	23225	N/G	Sep 16, 2016
746	Spencer	Bissett	4612 Archer Ave.	Richmond	23225	N/G	Sep 16, 2016
745	June	Waldron	1008 W. 45th Street	Richmond	13225	N/G	Sep 16, 2016
744	Devin	McGuire	211 West Blake Lane	Richmond	23225	N/G	Sep 14, 2016
743	David	George	1502 Porter St	Richmond	23224	N/G	Sep 13, 2016
742	Carl	Johnson	216 ravenscroft drive	Richmond	23236	View	Sep 11, 2016
741	Sarah	DeBlasio	2900 Scherer Dr	N. Chesterfield	23235	N/G	Sep 03, 2016
740	Kelsey	Barger	303 1/2 S Pine St	Richmond	23220	N/G	Aug 22, 2016
739	Will	Ritter	1500 West 41st	Richmond	23225	N/G	Aug 22, 2016
738	Jasmine	Sheppard	N/G	N/G	23225	N/G	Aug 20, 2016
737	Jack	Berry	2500 Grove Avenue	Richmond	23220	N/G	Aug 20, 2016
736	Suzanne	Rechis	16238 R R 620 N	Austin	78717	N/G	Aug 16, 2016
735	Reece	O'Donnell	8516 Summit Acres Drive	Richmond	23235	View	Aug 15, 2016
734	Curtis	Grimstead	9 W 10th St	Richmond	23224	N/G	Aug 13, 2016
733	Larry	Olanrewaju	4111 Uppingham Road	Richmond	23235	View	Aug 13, 2016
732	Joanna	Recinos	1305 w. 43rd St	Richmo	23225	N/G	Aug 09, 2016
731	belle	sears	11220 Turnley lane	midlothain	23113	N/G	Aug 08, 2016
730	Taylor	Holden	4034 Northrop St	Richmond	23225	N/G	Aug 08, 2016
729	michael	thompson	1818 ivystone dr	N/G	23238	N/G	Aug 08, 2016
728	Bret	Hutchings	221 Bland St	Richmond	23225	N/G	Aug 04, 2016
727	Bentley	Kennedy-Stone	1100 w cary	Richmond	23220	N/G	Aug 03, 2016
726	Helmut	Danter	8620 Trabue Road	Richmond	23235	N/G	Aug 03, 2016
725	Betty	Garrett	519 W. 25th St.	Richmond	23225	N/G	Jul 18, 2016
724	Daniel	Porzio	8600 Gem St	N.Chesterfield	23235	N/G	Jul 18, 2016
723	Meghan	Cobb	1009 Leicester Rd.	Richmond	23225	N/G	Jul 18, 2016
722	katya	lesher	4118 Hillcrest Road	richmond	23225	N/G	Jul 18, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
721	shaley	howard	N/G	Richmond	23227	N/G	Jul 15, 2016
720	Catherine	Harold	7403 Comanche Dr	Richmond	23225	View	Jul 13, 2016
719	George	Knipe	1020 W 46th Street	Richmond	23225	View	Jul 10, 2016
718	Krista	Simmerman	1204 W 41st St	Richmond	23225	N/G	Jul 07, 2016
717	patricia	pulman	44 quail run rd.	summit point	25446	N/G	Jul 04, 2016
716	Elizabeth	Barry	N/G	N/G	23225	N/G	Jul 04, 2016
715	Gretchen	Greggs	1624 Amherst street	Charlottesville	22903	N/G	Jul 04, 2016
714	Lorena	Castro	3004 semmes avenue	Richmond	23225	N/G	Jul 04, 2016
713	Melanie	Hopkins	3300 w grace st apt 1	Richmond	23221	N/G	Jul 03, 2016
712	Devon	White	3300 W Grace, Apt 1	Richmond	23221	N/G	Jul 03, 2016
711	Alex	Dyer	1401 w Leigh st	Richmond	23220	View	Jul 03, 2016
710	Kate	Pulman	121 W. Broad St.	Richmond	23220	View	Jul 03, 2016
709	lee	smith	121 West Broad Street Apt. 201	Richmond	23220	N/G	Jul 03, 2016
708	Jeanne	Minnix	1305 W. 41st street	Richmond	23225	N/G	Jul 02, 2016
707	Melissa	Corsmo	4524 Devonshire rd apt 1	Richmond	23225	N/G	Jul 01, 2016
706	Diana	Joaquin	4218 Riverside Dr	Richmond	23225	N/G	Jun 30, 2016
705	Tinga	Mastrelli	5310 Media Rd	Richmond	23225	View	Jun 29, 2016
704	Catherine	Nelson	2819 Stonewall Ave	Richmond	23225	N/G	Jun 24, 2016
703	Bobby	Efird	4034 Norhtrop St	Richmond	23225	N/G	Jun 23, 2016
702	Kyle	Shelton	126 Agency Avenue	Richmond	23235	N/G	Jun 22, 2016
701	Colleen	Dee	1013 W 42 St.	Richmond	23225	N/G	Jun 21, 2016
700	Micah	Sobczy	N/G	N/G	23225	N/G	Jun 21, 2016
699	Carol	Kozlowski	4208 Forest Hill Avenue	Richmond	23225	View	Jun 20, 2016
698	Thomas	Partenope	409 W. 25th St	Richmond	23225	N/G	Jun 19, 2016
697	joel	cabot	16 N 30th St	Richmond	23223	View	Jun 19, 2016
696	stephen	Roberts	4305 Springhill Avenue	Richmond	23225	View	Jun 18, 2016
695	John	Butcher	4208 Riverside Dr.	Richmond	23225	View	Jun 18, 2016
694	Matt	Baessler	2412 E Tremont Ct	Richmond	23225	N/G	Jun 17, 2016
693	Bob	Forsyth	905 w 32nd st	richmond	23225	N/G	Jun 17, 2016
692	Jody	Kutzler	N/G	Richmond	23225	N/G	Jun 17, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
691	Moira	Mahoney	312 N. 27th St.	Richmond	23223	N/G	Jun 17, 2016
690	Josh	Collins	6624 Wexford Lane	Richmond	23225	N/G	Jun 17, 2016
689	Laura	Harvey	5248 Jahnke Road	Richmond	23225	View	Jun 17, 2016
688	Philip	Queen	8639 Brown Summit Rd	Richmond	23235	N/G	Jun 16, 2016
687	tom	starke	46 19 forest hill ave	richmond	23225	N/G	Jun 16, 2016
686	Nellwyn	Skinner	3108 Porter Street	Richmond	23225	View	Jun 16, 2016
685	Heather	Shrader	3113 Dillard Ct	Glen Allen	23060	N/G	Jun 16, 2016
684	Cathleen	Studdard	3804 Forest Hill Avenue	Richmond	23225	N/G	Jun 15, 2016
683	Stephen	Waldron	1008 W 45th St	Richmond	23225	View	Jun 15, 2016
682	Grant	Hunnicut	4306 Reedy Ave	Richmond	23225	N/G	Jun 14, 2016
681	Ryan	Melcher	813 Westover Hills Blvd	Richmond	23225	N/G	Jun 14, 2016
680	Anne Lee	Foster	N/G	N/G	23188	N/G	Jun 14, 2016
679	Anonymous	Anonymous	N/G	N/G	23009	N/G	Jun 14, 2016
678	Eric	Crognale	10035 Wycliff Rd	Richmond	23236	N/G	Jun 14, 2016
677	Andrew	Pulley	101 Heppel Road	Richmond	23236	N/G	Jun 14, 2016
676	Daniel	Graff II	1402 Cedar Lane	Richmond	23225	View	Jun 13, 2016
675	Hunter	Bonton	4465 Cosby road	Powhatan	23139	N/G	Jun 12, 2016
674	Michael	Puglia	4406 Forest Hill Ave.	Richmond	23225	View	Jun 12, 2016
673	raymond	hubbaed	4315 reedy ave	richmond	23225	View	Jun 12, 2016
672	Jennifer	Walker	N/G	Richmond	23236	N/G	Jun 12, 2016
671	Michael	Schofield	3402 Forest Hill Ave	Richmond	23225	N/G	Jun 11, 2016
670	Melissa	Schofield	3402 forest hill ave	Richmond	23226	N/G	Jun 11, 2016
669	Andrew	Pederson	4060 forest hill ave apt c	richmond	23225	View	Jun 10, 2016
668	Alex	Kouzel	4202 Hillcrest Rd.	Richmond	23225	N/G	Jun 10, 2016
667	Steve	martin	1107 w 42nd street	richmond	23225	View	Jun 08, 2016
666	Rhonda	Davis	1320 W. Clay St.	Richmond	23220	N/G	Jun 05, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
665	David	Chambers	1206 West 47th Street	Richmond	23225	N/G	Jun 05, 2016
664	Daniel	Mouer	600 W. 30th St	Richmond	23225	View	Jun 05, 2016
663	Guy	Chiazza	3720 Brookside Rd.	Richmond	23225	N/G	Jun 04, 2016
662	Kristen	Larson	3423 Lochinvar Drive	Richmond	23235	N/G	Jun 03, 2016
661	Debra	McClane	4711 Devonshire Road	Richmond	23225	N/G	May 21, 2016
660	Mark	Wittkofski	8507 Academy Road	Henrico	23229	N/G	May 18, 2016
659	Robert	Gabay	2615 west grace street	Richmond	23220	N/G	May 18, 2016
658	Nicholas	Wittkofski	8507 Academy Road	Henrico	23229	N/G	May 18, 2016
657	Brandy	Robertson	4133 Lake Lynn Dr.	Raleigh	27613	N/G	May 17, 2016
656	Rebecca	Whitson	8363 Dusty In	Mechanicsville	23116	View	May 16, 2016
655	Jacob	Ray	34 Huneycutt drive	Richmond	23220	N/G	May 16, 2016
654	Will	Farmer	903 w 32nd street	Richmond	23225	N/G	May 16, 2016
653	Kristen	Nutter	700 Stockton street	Richmond	23224	View	May 15, 2016
652	Stephen	Fritchey	1318 W Broad St	Richmond	23220	N/G	May 15, 2016
651	Sarah	Richardson	600 E. Main St.	Richmond	23219	N/G	May 15, 2016
650	Craig	Curwood	1100 W. 43rd Street	Richmond	23225	N/G	May 15, 2016
649	Sharon	Kenna	4524 Grove Ave., Unit 2	Richmond	23221	N/G	May 15, 2016
648	Roy	Kalista	2008 Junaluska Circle	Richmond City	23225	N/G	May 15, 2016
647	Jennifer	Jettner	2008 Junaluska Circle	Richmond City	23225	N/G	May 15, 2016
646	Lynn	Wilson	680 Crib Lane	Sandston	23150	View	May 15, 2016
645	Nancy	Freed	3304 Encinal	Alameda	94501	View	May 15, 2016
644	Heidi	Martin	2328 Dreux Ave	New Orleans	70122	N/G	May 14, 2016
643	John	Downing	300 W Franklin St, Apt 906W	Richmond	23220	N/G	May 11, 2016
642	Anne	Jones	4032 MacArthur Ave Apt E	Richmond	23227	N/G	May 11, 2016
641	Anne	Purser	4806 Forest Hill Ave	Richmond	23225	N/G	May 11, 2016
640	John	Ransone	4116 Hillcrest	Richmond	23225	N/G	May 10, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
639	Renee	Eland	1203 W 42nd Street	Richmond	23225	N/G	May 10, 2016
638	David	Stover	3228 Patterson Avenue	Richmond	23221	N/G	May 09, 2016
637	Valeria	Murphey	4915 New Kent Rd	Richmond	23225	N/G	May 07, 2016
636	Caryl	Burtner	3228 Patterson	Richmond	23221	View	May 05, 2016
635	Dale	Knight	12221 Auger Lane	Midlothian	23113	N/G	May 02, 2016
634	Mercedes	Schaum	3601 E Marshall st	Richmond	23223	N/G	May 02, 2016
633	Whitney	Zarei	5903 Brookfield Rd	Richmond	23227	View	May 01, 2016
632	Josh	Evans	5413 Dorchester rd	Richmond	23225	View	May 01, 2016
631	Josh	McAdams	2604 Christian Lane	esmont	22937	N/G	May 01, 2016
630	Maraia	Ener	7120 Woodlawn Ave NE #513	Seattle	98115	N/G	May 01, 2016
629	Susan	Schen	N/G	N/G	01002	N/G	May 01, 2016
628	Bruce	Batchelder	1166 Joliette Road	Richmond	23235	N/G	Apr 30, 2016
627	K	Brady	2607 park ave	Richmond	23220	N/G	Apr 27, 2016
626	Andrew	Sullivan	2023 Grove Avenue	Richmond	23220	View	Apr 26, 2016
625	William	Teeples	318 South Laurel Street	RICHMOND	23220	View	Apr 26, 2016
624	Patrick	Spraker	616 n. 33rd st.	Richmond	23223	N/G	Apr 24, 2016
623	Christina	Black	Va	Richmond	23230	N/G	Apr 23, 2016
622	Melvin	Ely	1107 W 43rd St	Richmond	23225	View	Apr 23, 2016
621	John	Thomasson	1105 W. 42nd St.	Richmond	23225-4608	View	Apr 23, 2016
620	Joel	Burleson	604 W 29th st.	Richmond	23225	N/G	Apr 23, 2016
619	Joseph	Terry	4301 Newport Dr	USA	23227	N/G	Apr 23, 2016
618	Nicole	Soniega	610 Harrogate Rd	Fredericksburg	22406	N/G	Apr 23, 2016
617	Patrick	Auld	2121 turtle run Dr unit 5	Richmond	23233	N/G	Apr 22, 2016
616	Tori	Hance	2008 Maplewood Ave.	Richmond	23220	N/G	Apr 22, 2016
615	David	Pinilla	2505 Stuart avenue apt b	Richmond	23320	N/G	Apr 22, 2016
614	Tom	Teeples	132 Lancaster Dr Apt 105	Irvington	22480	N/G	Apr 22, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
613	judith	nelson	409 Branway Drive	Richmond	23229	View	Apr 22, 2016
612	Chris	Severson	4205 Springhil IAve	Richmond	23225	N/G	Apr 22, 2016
611	Christopher	Hibben	2113 McRae Rd	N Chesterfield	23235	N/G	Apr 21, 2016
610	Eric	Norbpm	822 West 29th St.	Richmond	23225	N/G	Apr 21, 2016
609	Mary	Holland	822 West 29th Street	Richmond	23225	N/G	Apr 21, 2016
608	Pamel	Turner	2615 Fendall Avenue	Richmond	23222	View	Apr 21, 2016
607	Jennifer	Garvin-Sanchez	304 W. 29th St.	Richmond	23225	N/G	Apr 20, 2016
606	Kris	Iden	4209 Smithdeal Avenue	Richmond	23225	View	Apr 20, 2016
605	Paul	Teeples	318 s Laurel st	Richmond	23220	N/G	Apr 20, 2016
604	Mary	Wickham	1817 Monument Ave	Richmond	23220-2801	View	Apr 20, 2016
603	Grace	Teeples	318 S. Laurel St.	Richmond	23220	N/G	Apr 20, 2016
602	Monica	Rumsey	P.O. Box 338	Essex	12936	View	Apr 20, 2016
601	Woodrow	Lyon	4028 Northrop Street	Richmond	23225	N/G	Apr 19, 2016
600	Stephanie	Bobb-Nascimento	N/G	Richmond	23220	N/G	Apr 18, 2016
599	Alexandra	Saxton	8233 Barningham Rd	Richmond	23235	N/G	Apr 16, 2016
598	Aimee	McNulty	2819 Iverson Rd	Midlothian	23112	N/G	Apr 15, 2016
597	Erica	Sorensen	7209 Elkhardt Rd	Richmond	23225	N/G	Apr 15, 2016
596	Chelsea	Richardson	411 W 24th	Richmond	23225	N/G	Apr 15, 2016
595	james	crodick	307 w 26th st	richmond	23225	N/G	Apr 15, 2016
594	Annette	Cook	3204 McDonough St	Richmond	23225	N/G	Apr 14, 2016
593	Justin	Sears	1400 Carter St	Richmond	23220	N/G	Apr 14, 2016
592	Cat	Sears	1400 Carter St	Richmond	23220	N/G	Apr 14, 2016
591	Stephen	Davis	1224 Irby Drive	Richmond	23225	N/G	Apr 14, 2016
590	Sarah	Harwich	3064 forest hill Ave	Richmond	23225	N/G	Apr 14, 2016
589	patrick	wiley	2225 venerable st	richmond	23223	N/G	Apr 14, 2016
588	April	Jones	1907 grayland ave	Richmond	23220	N/G	Apr 14, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
587	Hope	Ford	1907 Grayland Ave	Richmond	23220	View	Apr 14, 2016
586	Amanda	France	506 S Sheppard St	Richmond	23221	N/G	Apr 14, 2016
585	Jay	Lindsey	104 Buck Drive	Louisa	23065	N/G	Apr 14, 2016
584	Anthony	Sullivan	1754 Mill Creek Rd	Wake	23176	N/G	Apr 14, 2016
583	Jamie	Lay	206 West 32nd Street	Richmond	23225	N/G	Apr 14, 2016
582	Ashley	Lawson	N/G	Henrico	23075	N/G	Apr 14, 2016
581	Kathleen	Ryan	514 W. 26th St. #1	Richmond	23225	View	Apr 14, 2016
580	Meredith	Barnes	3528 Grove Ave #6	Richmond	23221	N/G	Apr 14, 2016
579	Aileen	Rivera	1200 Dotson Rd	Richmond	23231	N/G	Apr 14, 2016
578	Christina	Sadowski	1 W. Jackson Street	Richmond	23220	N/G	Apr 14, 2016
577	James	Jackson	7137 South Dr.	Richmond	23225	N/G	Apr 14, 2016
576	Lok	Lam	605 Chamberlayne Pkwy	Richmond	23220	N/G	Apr 14, 2016
575	Katy	Burke	14106 Forest Creek Dr	Midlothian	23113	N/G	Apr 14, 2016
574	Nick	Meade	4110 Hillcrest Road	Richmond	23225	N/G	Apr 14, 2016
573	Laura	Pilati	N/G	N/G	23228	N/G	Apr 14, 2016
572	Erica	Borey	3320 Grayland Ave	Richmond	23221	N/G	Apr 14, 2016
571	Kelli	Mason	4038 Coal Spring Ct. Apt 2A	Glen Allen	23060	N/G	Apr 14, 2016
570	Alex	Huss	8030 Old Roxbury Road	Quinton	23141	N/G	Apr 14, 2016
569	Hannah	Patterson	702B Sayre St	Horseheads	14845	N/G	Apr 14, 2016
568	Cathy	Jackman	N/G	Union Hall	24176	N/G	Apr 14, 2016
567	Michael	Harl	3118 Woodrow Ave.	Richmond	23222	N/G	Apr 14, 2016
566	clay	blancett	N/G	richmond	23220	N/G	Apr 14, 2016
565	Emily	Richardson	N/G	Richmond	23227	N/G	Apr 14, 2016
564	Amelia	da Silva	N/G	Richmond	23228	N/G	Apr 14, 2016
563	Athena	Huss	8030 old Roxbury rd	New Kent	23141	View	Apr 14, 2016
562	Patrick	Jackman	1313 Dubois Ave	Richmond	23220	N/G	Apr 13, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
561	Jacob	Hosen	27 Bishop Street	New Haven	06511	N/G	Apr 13, 2016
560	Rachel	Harper	305 North Monroe Street	Richmond	23220	N/G	Apr 13, 2016
559	Janet	Lundy	1924 Floyd Ave	Richmond	23220	N/G	Apr 13, 2016
558	Dian	Jackson	7137 South Dr.	Richmond	23225	N/G	Apr 13, 2016
557	Mark	Ryan	1924 Floyd Ave	Richmond	23220	N/G	Apr 13, 2016
556	Sarah	Ferriter	213 w 30th St	Va	23225	View	Apr 13, 2016
555	Ilana	Blackmore	1020 Tilden Street	Richmond	23221	N/G	Apr 13, 2016
554	Donna	Barrow	4920 Klamath Road	Virginia Beach	23462	N/G	Apr 13, 2016
553	Robert	Barrow	3304 Forest Hill Avenue	Richmond	23225	N/G	Apr 13, 2016
552	Luisa	Brooks	N/G	Richmond	23221	N/G	Apr 11, 2016
551	Jessica	Ward	2616 Parkwood Ave	Richmond	23220	N/G	Apr 09, 2016
550	Haley	Hollenbach	4017 Northrop St.	Richmond	23225	N/G	Apr 09, 2016
549	Janet	Ralston	N/G	North Chesterfield	23235	N/G	Apr 09, 2016
548	Roger	Bessette	4904 Evelyn Byrd Rd	Richmond	23225	N/G	Apr 07, 2016
547	Kristin	Thompson	204 E 13th St	Richmond	23224	N/G	Apr 06, 2016
546	Michelle	Hornby	23306 pheasant ct.	North Dinwiddie	23803	N/G	Apr 05, 2016
545	Michelle	Thompson	9401 FERNLEIGH DRIVE	RICHMOND	23235	N/G	Apr 05, 2016
544	Susan	Faye	7129 south drive	Richmond	23225	N/G	Apr 05, 2016
543	Robert	Heinitz	10215 Still Creek Lane	Mechanicsville	23116	View	Apr 05, 2016
542	Forest	Mcneill	1829 powell rd.	Richmond	23224	View	Apr 05, 2016
541	Kathryn	Jackson	5010 Clarence Street	Richmond	23225	N/G	Apr 05, 2016
540	Tate	Sanchez	901 montague rd.	Richmond	23225	N/G	Apr 05, 2016
539	Deanna	Philpott	1533 Floyd Ave apt 1	Richmond	23220	N/G	Apr 05, 2016
538	Beth	Glasser	North Monroe St.	Richmond	23220	N/G	Apr 05, 2016
537	Nancy	Rose	1166 Joliette Road	Richmond	23235	N/G	Apr 05, 2016
536	Aryn	Carlson	N/G	N/G	23229	N/G	Apr 05, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
535	Sarah	Kiesler	609 W 28th St	Richmond	23225	N/G	Apr 04, 2016
534	Deborah	Belt	5302 Caledonia Rd	Richmond	23225	View	Apr 04, 2016
533	Brian	Sudol	2015 Idlewood Ave	Richmond	23220	N/G	Apr 04, 2016
532	CARY	RALSTON	1311 WINSLOW RD	RICHMOND	23235	N/G	Apr 04, 2016
531	Kelly	Callahan	N/G	N/G	23220	N/G	Apr 04, 2016
530	Melissa	Davis	8202 Buckeye Drive	Richmond	23228	N/G	Apr 04, 2016
529	Charles	Ralston	1000 W 47th St	Richmond	23225	View	Apr 04, 2016
528	Lisa	Bessette	4904 Evelyn Byrd road	Richmond	23225	N/G	Apr 04, 2016
527	Bettina	Sullivan	N/G	N/G	23235	N/G	Apr 04, 2016
526	Carrie	Barbagallo	N/G	Richmond	23220	N/G	Apr 04, 2016
525	Micah	Kemp	South Mulberry Street	richmond	23220	View	Apr 04, 2016
524	TAK	Hudson	N/G	Ruther Glen	22546	View	Apr 04, 2016
523	Scott	Hamilton	4027 Northrop St	Richmond	23225	N/G	Apr 04, 2016
522	Alyssa	Freeman	1241 Apt. B7 Gaskins Rd	Henrico	23238	N/G	Apr 03, 2016
521	Laura	Sullivan	2718 Bainbridge st	Va	23225	N/G	Apr 03, 2016
520	Jaleesa	Wilson	1711 n. King st.	Hampton	23669	N/G	Apr 03, 2016
519	James	McDonald	820 w 44th street	Richmond	23225	N/G	Apr 03, 2016
518	Madge	Bemiss	N/G	N/G	23221	N/G	Apr 03, 2016
517	Matt	Linkous	4910 Pine Crest Avenue	Richmond	23225	N/G	Apr 03, 2016
516	Terry	Dascher	1005 W 42nd St	Richmond	23225	N/G	Apr 03, 2016
515	Jane	Geaney	4313 Hillcrest Rd	Richmond	23225	N/G	Apr 03, 2016
514	Lee	Shewmake	3300 Semmes Avenue	Richmond	23225	View	Apr 02, 2016
513	Jeremiah	White	999 W 43rd St	Richmond	23225	N/G	Apr 02, 2016
512	Anna	Thomas	5805-A Willow Oaks Drive	Richmond	23225	N/G	Apr 01, 2016
511	Daniel	Patenaude	4005 Dunston Ave	Richmond	23225	N/G	Apr 01, 2016
510	Tim	Steele	4300 Reedy Ave	Richmond	23225	N/G	Mar 31, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
509	Genevelyn	Steele	4300 Reedy Avenue	Richmond	23225	View	Mar 31, 2016
508	Katharin	Pappas	1011 w 42nd st	Richmond	23225	N/G	Mar 31, 2016
507	Jessica	Nelson	416 N 26th St	Richmond	23233	N/G	Mar 31, 2016
506	Margaret	Gunter	4420 Reedy Ave	Richmond	23225	N/G	Mar 31, 2016
505	Didi	Cohen	213 Bland St	Richmond	23225	N/G	Mar 31, 2016
504	marilyn	erickson	N/G	richmond	23230	N/G	Mar 31, 2016
503	Lisa	Marshall	4016 Northrop St	Richmond	23225	N/G	Mar 30, 2016
502	Ian	Hartman	4018 Northrop St	Richmond	23225	N/G	Mar 30, 2016
501	Reilly	Gallagher	N/G	Virginia	21212	N/G	Mar 30, 2016
500	Rebecca	Robins	9301 cragmont dr	richmond	23229	N/G	Mar 30, 2016
499	Lee	Kennon	1510 Huguenot trail	Powhatan	23139	N/G	Mar 30, 2016
498	Scott	Terbush	9052 gold ridge lane	Mechanicsville	23116	N/G	Mar 30, 2016
497	Ellie	Angle	106 Cyril Lane	Richmond	23229	N/G	Mar 30, 2016
496	Hannah	Feder	8900 Alendale Road	Richmond	23229	N/G	Mar 30, 2016
495	Tracy	Kline	1804 W. 43rd Street	Richmond	23225	View	Mar 30, 2016
494	Joel	Cabot	N/G	Richmond	23223	N/G	Mar 30, 2016
493	Diana	Urbiztondo	Northrop	Richmond	23225	View	Mar 29, 2016
492	Sarah	Colletti	642 Cross Ridge LN	Richmond	23103	N/G	Mar 29, 2016
491	Lizzie	Turner	3847 traylor drive	Richmond	23235	N/G	Mar 29, 2016
490	Jane Carlton	Gremer	7010 University Drive	Richmond	23229	N/G	Mar 29, 2016
489	Haley	Kell	8705 Bellefonte Rd	Richmond	23229	N/G	Mar 29, 2016
488	Emily	mendelson	37 old mill	Richmond	23226	N/G	Mar 29, 2016
487	Madison	ONeil	1478 sovereign court fox hall	Richmond	23233	N/G	Mar 29, 2016
486	Liza	Miller	200 Tarrytown Drive	Richmond	23229	N/G	Mar 29, 2016
485	Polly	Sommers	N/G	Richmond	23229	N/G	Mar 29, 2016
484	John	Williamson	4110 Forest Hill Avenue	Richmond	23225	N/G	Mar 29, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
483	George	Pearson	Va	Richmond	23235	N/G	Mar 28, 2016
482	Caroline	Goggins	213 Walsing Drive	Richmond	23229	N/G	Mar 28, 2016
481	Ellen	Shaver	5343 White Pickett Ln	Chesterfield	23237	N/G	Mar 28, 2016
480	Christie	Owens	4001 Garden Road	Richmond	23235	N/G	Mar 28, 2016
479	Catie	Lausten	710 w franklin	Richmond	20147	N/G	Mar 27, 2016
478	Corinne	Ridderhof	2120 N. Monroe St	Arlington	22207	N/G	Mar 27, 2016
477	Sue	Hargadon	1504 W. 41st Street	Richmond	23225	N/G	Mar 27, 2016
476	Charlotte	Hinson	810 W 29th st	Richmond	23225	N/G	Mar 27, 2016
475	ron	dickerson	1207 west 41st street	richmond	23225	N/G	Mar 27, 2016
474	mary	farrar	1207 west 41st street	richmond	23225	N/G	Mar 27, 2016
473	Arwen	Otwell	3718 Moody Avenue	Richmond	23225	N/G	Mar 27, 2016
472	Jeanne	Gillard	12431 Cameron bay drive	Midlithian	23112	N/G	Mar 27, 2016
471	Mathias	Bergmann	215 W. Roanoke St	Richmond	23225	N/G	Mar 26, 2016
470	stephanie	saccone	818 w 44th st	richmond	23225	View	Mar 26, 2016
469	Cristin	Kaspar	608 west 27th street	Richmond	23225	N/G	Mar 26, 2016
468	Sarah	Stonehurst	300 Twinridge Lane, A;t 417	Richmond	23235	N/G	Mar 26, 2016
467	Kalene	Szymczak	4908 daffodil circle	Glen Allen	23060	View	Mar 26, 2016
466	Grant	Hunnicutt	4306 Reedy Ave	Richmond	23225	N/G	Mar 26, 2016
465	Ann	Wagner	7104 winding creek lane	Chesterfield	23832	N/G	Mar 26, 2016
464	Bridget	Dougherty	N/G	N/G	23237	N/G	Mar 26, 2016
463	Lawrence	Olds	1441 Braeside Drive	richmond	23225	N/G	Mar 26, 2016
462	Heather	Martin	5819-D Willow Oaks Drive	Richmond	23225	N/G	Mar 26, 2016
461	Amber	Thomas	1426 Westover Gardens Blvd	Richmond	23225	View	Mar 26, 2016
460	Missy	Olds	1441 Braeside Drive	Richmond	23225	View	Mar 26, 2016
459	Craig	Eggleton	13613 Bundle Rd	N/G	23838	N/G	Mar 26, 2016
458	Sara	Bird	3409 Parkwood Ave.	Richmond	23221	N/G	Mar 26, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
457	stuart	harlow	1008 west 43rd st	richmond	23225	View	Mar 26, 2016
456	Mary	Zeugner	6408 Roselawn rd	Richmond	23226	View	Mar 26, 2016
455	Sarah	Gaskin	322 S Cherry St	Richmond	23220	N/G	Mar 26, 2016
454	Andrew	Town	3011 Stonewall Avenue	Richmond	23225	N/G	Mar 25, 2016
453	Barbara	Parker	3414 Monument Ave	Richmond	23221	N/G	Mar 25, 2016
452	Jennifer	Szot	306 W. 30th St	Richmond	23225	N/G	Mar 25, 2016
451	Allison	Mesnard	7736 Whittington Dr.	North Chesterfield	23225	View	Mar 25, 2016
450	Sasha	Davis	Va	Richmond	23225	N/G	Mar 25, 2016
449	Elmo	Alexander	1006 east 69th street	Richmond	23225	View	Mar 25, 2016
448	Becky	Bell	N/G	Richmond	23220	N/G	Mar 25, 2016
447	Dianne	Weimer	12316 Chadsworth Ct	Glen Allen	23059	N/G	Mar 25, 2016
446	Janine	Lester	2127 Rosewood Av.	Richmond	23220	View	Mar 25, 2016
445	Christina	Garnett	1506 south Meadow street	Richmond	23220	N/G	Mar 25, 2016
444	Samantha	Krigsvold	906 W 30th Street	Richmond	23225	N/G	Mar 25, 2016
443	Amy	Bergmann	215 W. Roanoke Street	Richmond	23225	View	Mar 25, 2016
442	Jacqueline	Dwyer	605 Horsepen Roaf	Henrico	23229	N/G	Mar 25, 2016
441	Cheryl	Phillips	3631 Cliffwood Rd	Richmond	23234	View	Mar 24, 2016
440	Lee	Kennon	N/G	N/G	23139	N/G	Mar 24, 2016
439	Raymond	Hughey	814 La Strada Drive	Fallbrook	92028	N/G	Mar 24, 2016
438	Lisa	Bessette	4904 Evelyn Byrd road	Richmond	23225	N/G	Mar 24, 2016
437	Caroline	Butler	1620 Monument Ave	Richmond	23220	View	Mar 24, 2016
436	Marina	Alexander	42nd	Ric	23225	View	Mar 24, 2016
435	Nicole	Horton	100 South Boulevard Apartment 4	Richmond	23220	N/G	Mar 24, 2016
434	David	Shantz	332 Wilkinson Drive	Williamsburg	23188	N/G	Mar 24, 2016
433	Jean	Neal	N/G	N/G	23226	View	Mar 24, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
432	Andrea	Almond	1703 s meadow	va	23220	N/G	Mar 24, 2016
431	Margaret	Seals	1819 Floyd Avenue	Richmond	23220	View	Mar 24, 2016
430	Bob	Shippee	13000 Trinity Ct	Richmond	23233	N/G	Mar 24, 2016
429	Stephen	Fishel	202 West 34th Street	Richmond	23225	N/G	Mar 24, 2016
428	Janet	Woody	10242 Sioux Rd	Richmond	23235	N/G	Mar 24, 2016
427	Cassandra	Huff	1809 whitehead rd	Richmond	23225	N/G	Mar 24, 2016
426	Linda	Burr	2922 Grayland Ave	Richmond	23221	N/G	Mar 24, 2016
425	Nicole	Anderson Ellis	1431 Chaffins Bluff Lane	Richmond	23231	View	Mar 24, 2016
424	Kira	Allmann	5223 Blockade Reach	Williamsburg	23185	N/G	Mar 24, 2016
423	Sherry	Keating	4026 Northrop street	Richmond	23225	View	Mar 24, 2016
422	Karen	McClain	3710 Dunston Ave	Richmond	23225	N/G	Mar 24, 2016
421	Heather	Holub	2707 E Broad St	Richmond	23223	N/G	Mar 24, 2016
420	Philip	Pendleton	304 Chancellor place	Fredericksburg	22401	N/G	Mar 24, 2016
419	Steven	Heinitz	10215 Still Creek Lane	Mechanicsville	23116	View	Mar 24, 2016
418	Liz	Smith	2211 conte dr	Midlothian	23113	N/G	Mar 24, 2016
417	Thomas	Lacy	12114 Walnut Hill Drive	Rockville, VA	23146	View	Mar 24, 2016
416	Jennifer	Macdonald	3708 Brookside Rd	Richmond	23225	N/G	Mar 24, 2016
415	Teresa	Davis	1003 Matadequin Lane	Hanover	23111	N/G	Mar 24, 2016
414	Liza	Zechini	4029 Northrop st.	Richmond	23225	View	Mar 24, 2016
413	Cara	Douglas	5007 Clarence Street	Richmond	23225	N/G	Mar 24, 2016
412	Patricia	Morrison	5011 Clarence St.	Richmond	23225	View	Mar 24, 2016
411	Janice	Robertson	4337 WAKEFIELD RD	RICHMOND	23235	N/G	Mar 24, 2016
410	Caitlin	Faia	3917 Brook Rd	Richmond	23227	N/G	Mar 24, 2016
409	Gail	Christie	3509 Walkers Ferry Rd	Midlothian	23112	N/G	Mar 24, 2016
408	Paige	Goodpasture	3206 Seminary Ave	Richmond	23227	N/G	Mar 24, 2016
407	Virginia	Anderson	1900 Southcliff Road	Richmond	23225	View	Mar 24, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
406	Donna	Lacy	P.o box 28043	Richmind	23228-0043	N/G	Mar 24, 2016
405	Michael	Keller	2312 Maplewood Ave	Richmond	23220	N/G	Mar 23, 2016
404	Meriwether	Broaddus	1326 Ware Road	Richmond	23229	N/G	Mar 23, 2016
403	Catharine W.	Tucker	302 Danray Dr.	Richmond	23227-1923	View	Mar 23, 2016
402	Marlene	Paul	614 W. 25th St.	Richmond	23225	View	Mar 23, 2016
401	Kathleen	Markowitz	1908 Windingridge Drive	Richmond	23238	View	Mar 23, 2016
400	Nancy	Baker	2305 Park Ave.	Richmond	23220	View	Mar 23, 2016
399	Amy	Gernin	104 whistle walk	Williamsburg	23188	N/G	Mar 23, 2016
398	Stephen	Kapeller	4100 Dunston Ave.	Richmond	23225	N/G	Mar 23, 2016
397	Jane	Kapeller	4100 Dunston Ave.	Richmond	23225	N/G	Mar 23, 2016
396	Edward	Knight	4511 Brook Road	Richmond	23227	N/G	Mar 23, 2016
395	Barbara	Eck	6819 Glenwood St	Richmond	23228	N/G	Mar 23, 2016
394	Susan	Eschenroeder	N/G	N/G	23235	N/G	Mar 23, 2016
393	Sue	Ridd	9655 Greenmeadow Circle	Glen Allen	23060	View	Mar 23, 2016
392	Amelia	Belde	5019 King William Road	Richmond	23225	N/G	Mar 23, 2016
391	Art	Carpenter	405 West 30th Street	Richmond	23225	N/G	Mar 23, 2016
390	Mike	Crowley	8232 Halstead Rd	Richmond	23235	View	Mar 23, 2016
389	Frank	Albert	1005 Forest Vw. Dr.	Richmond	23225	N/G	Mar 23, 2016
388	Rhenda	Mason-Armetta	6123 Kimberly dr	Richmond	23225	View	Mar 23, 2016
387	Rod	Leger	118 south ohio ave.	Lancaster	43130	View	Mar 23, 2016
386	Michelle	Groeger	4971 Bigelow Rd	West Valley	14171	N/G	Mar 23, 2016
385	Kimber	McQueen	824 W 47th St	Richmond	23225	N/G	Mar 23, 2016
384	joy	glass	4303 Springhill Ave	Richmond	23225	View	Mar 23, 2016
383	natahan	groeger	214 Crescent Drive	Williamsburg	23188-1077	N/G	Mar 23, 2016
382	Ann	Myers	8232 Halstead Rd.	Richmond	23235	N/G	Mar 23, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
381	Bill	Shanabruch	4020 Dunston Avenue	Richmond	23225	N/G	Mar 23, 2016
380	James	Wise	5100 sylvan road	Rochmond	23225	N/G	Mar 23, 2016
379	Ann	Cronan	3127 Stony Point Rd	Richmond	23235	N/G	Mar 23, 2016
378	Jamie	Alberti	5282 Jessup Lane	Woodbridge	22193	N/G	Mar 23, 2016
377	Daniel	Zipperer	4406 Stonewall Ave	Richmond	23225	View	Mar 23, 2016
376	J.E.	Graham-Landau	1201 taylor ave	richmond	23225	N/G	Mar 22, 2016
375	Tess	Perry	9807 Ridge Meadow Place	Henrico	23238	N/G	Mar 22, 2016
374	Lauren	Lynch	13 Welwyn Court	Richmond	23229	N/G	Mar 22, 2016
373	E	Macdonald	N/G	Richmond	23225	N/G	Mar 22, 2016
372	Allen	Belden	N/G	N/G	23225	N/G	Mar 22, 2016
371	Virginia	Harris	N/G	Richmond	23238	N/G	Mar 22, 2016
370	Laura	Major	1804 W 42nd Street	Richmond	23225	N/G	Mar 22, 2016
369	Mike	Flick	N/G	N/G	23235	N/G	Mar 22, 2016
368	Lynne	Groeger	214 crescent dr	Williamsburg	23188	N/G	Mar 22, 2016
367	Kate	Ferrell	8901 Brieryle Rd	Richmond	23229	N/G	Mar 22, 2016
366	Jessica	Lyszyk	1708 Whitlone Drive	Richmond	23225	N/G	Mar 22, 2016
365	LeeLee	Fulk	1201 west 45th St	Richmond	23225	N/G	Mar 22, 2016
364	Lynn	McNulty	1517 Cedar Lane	Richmond	23225	N/G	Mar 22, 2016
363	Ronnie	Durie	95 Mountian Peak,dr.	Lynchburg	24502	View	Mar 22, 2016
362	Caroline	Campos	1913 Old Brick Road	Glen Allen	23060	N/G	Mar 22, 2016
361	Anthony	LaRocca	1900 Hillcrest Cir	Richmond	23225	N/G	Mar 22, 2016
360	Liana	Major	5115 Caledonia Rd	Richmond	23225	View	Mar 22, 2016
359	Joanna	French	9415 aynhoe lane	mechanicsville	23116	N/G	Mar 22, 2016
358	Michele	Cox	.	Richmond	23225	N/G	Mar 22, 2016
357	zach	mayo	11 Overbrook Rd	Richmond	23222	N/G	Mar 22, 2016
356	james r	smith	1617 claremont ave.	Richmond	23227	N/G	Mar 22, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
355	Rhonda	Clopton	4211 Hillcrest Road	Richmond	23225	N/G	Mar 22, 2016
354	Karen	engard	4807 Bassett Ave.	Richmond	23225	N/G	Mar 22, 2016
353	John	ZEUGNER	6408 Roselawn Rd	Richmond	23226	View	Mar 22, 2016
352	Carson	White	5404 Ditchley Rd	Richmond	23226	N/G	Mar 22, 2016
351	Jennifer	Douglas	707 w 49th Street	Richmond	23225	N/G	Mar 22, 2016
350	Eliza	Howard	N/G	N/G	23229	N/G	Mar 22, 2016
349	Anneclaire	Quindoza	N/G	N/G	23113	N/G	Mar 22, 2016
348	Georgia	Beazley	24 East Glenbrooke Circle	Richmond	23229	N/G	Mar 22, 2016
347	Daniel	Carr	3310 Monument Ave	Richmond	23221	N/G	Mar 22, 2016
346	Annie	Mahoney	6739 Greenhen Lane	Richmond	23229	N/G	Mar 22, 2016
345	Kate	Anders	4 Dunaway Drive	Richmond	23238	View	Mar 22, 2016
344	Catherine	DeVoe	8917 Norwick Road	Richmond	23229	N/G	Mar 22, 2016
343	Emily	Smith	10138 Cherokee Rd	Richmond	23235	View	Mar 22, 2016
342	Barry	Burgess	N/G	N/G	23229	N/G	Mar 22, 2016
341	Olivia	Messer	N/G	N/G	23238	N/G	Mar 22, 2016
340	Sarah	Smithson	9304 Bramall Road	Richmond	23229	N/G	Mar 22, 2016
339	Colleen	Higgins	9601 Iredell Rd	Bon Air	23235	N/G	Mar 22, 2016
338	Timothy	Jones	3726 Brookside Rd	Richmond	23225	N/G	Mar 22, 2016
337	Rebecca	Durnal	N/G	N/G	23111	N/G	Mar 22, 2016
336	Tom	Campagnoli	8362 W. Weyburn Rd	Richmond	23235	View	Mar 22, 2016
335	Sasha	Durnal	1214 garber st	richmond	23231	N/G	Mar 21, 2016
334	Paul	Deiss	908 Herbert St	Richmond	23225	N/G	Mar 21, 2016
333	Anna	Gethins	4005 Northrop Street	Richmond	23225	View	Mar 21, 2016
332	Susy	Meyer	5108 New Kent Rd	Richmond, VA	23225	N/G	Mar 21, 2016
331	Susanna	Raffenot	1627 Pope Ave	Richmond	23227	View	Mar 21, 2016
330	Rab	McClure	3700 Brookside Road	Richmond	23225	N/G	Mar 21, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
329	Robert	Pfeifer	5612 Crenshaw Rd	Richmond	23227	N/G	Mar 21, 2016
328	Adam	McDermott	311 Carson St	Richmond	23225	N/G	Mar 21, 2016
327	Donna	Bausch	408 W. 30th St.	Richmond	23225	N/G	Mar 21, 2016
326	Erin	Freeman	N/G	VA	23225	N/G	Mar 21, 2016
325	Peter	Solomon	2112 Riverside Dr Apt B14	Richmond	23225	N/G	Mar 21, 2016
324	Lisa	Delao	410 Dobson St Apt D	Richmond	23220	N/G	Mar 21, 2016
323	Jason	Gupton	3920 stockton st	Richmond	23224	N/G	Mar 21, 2016
322	Chris	Lyszyk	1708 Whitlone dr	Richmond	23225	N/G	Mar 21, 2016
321	Constance	Carroll	3319 grandview drive	Richmond	23225	N/G	Mar 21, 2016
320	Rosa	Roncales	215 bland st	richmond	23225	N/G	Mar 21, 2016
319	Christine	Shtogren	7315 Longview Ct.	Richmond	23225	N/G	Mar 21, 2016
318	Christine	Alicea	3807 griffin ave	richmond	23323	N/G	Mar 21, 2016
317	kathy	herrell	2720 Hillcrest rd.	richmond	23225	View	Mar 21, 2016
316	Tinga and Ray	Mastrelli	5310 Media Rd	Richmond	23225	View	Mar 21, 2016
315	Carmen	Rodriguez	12509 Amershire Ln	Glen Allen	23059	N/G	Mar 21, 2016
314	Erik	Kutzler	6639 Wexford Ln	Richmond	23225	N/G	Mar 21, 2016
313	Nicole	stuart	1711 carter st	richmond	23220	N/G	Mar 21, 2016
312	Marshall	O'Leary	42 Junie Buck Rd	N/G	23146	N/G	Mar 21, 2016
311	Chris	Herrington	4302 New Kent Ave	Richmond	23225	N/G	Mar 21, 2016
310	Phil	Feger	59 W 29th St	Richmond	23225	N/G	Mar 21, 2016
309	Page	Hayes	5201 King William Road	Richmond	23225	N/G	Mar 21, 2016
308	Mary Katherine	Hilb	20 Lower Tuckahoe Road West	Richmond	23238	N/G	Mar 21, 2016
307	Karen	Kester	722 W. 33rd St.	Richmond	23225	N/G	Mar 21, 2016
306	arthur	Butt	609 W 27th St	Richmond	23225	View	Mar 21, 2016
305	Penny	Sedgley	4308 Forest Hill Ave	Richmond	23225	N/G	Mar 21, 2016
304	Rebeccca	Wright	5121 Evelyn Byrd Road	Richmond	23225	N/G	Mar 21, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
303	Tiffany	Clark	4307 stonewall ave	Richmond	23225	N/G	Mar 21, 2016
302	Randy	Ussery	5023 Clarence St	Richmond	23225	N/G	Mar 21, 2016
301	BRIAN	ECKBERGW	5103 DORCHESTER RD.	RICHMOND	23225	View	Mar 21, 2016
300	Jackie	McDonnough	3220 1stAve	Richmond	23222	View	Mar 21, 2016
299	wyndham	price	2016 Junaluska Cir.	richmond	23225	N/G	Mar 21, 2016
298	Kaelin	O'Donnell	615 N 8th St	Richmond	23284	N/G	Mar 21, 2016
297	Deborah	Jett	1211 W 41st Street	Richmond	23225	N/G	Mar 21, 2016
296	James	Jett	1211 W 41st Street	Richmond	23225	N/G	Mar 21, 2016
295	Dawn	Mills	2568 walkers Ridge terr	Powhatan	23139	N/G	Mar 21, 2016
294	Elizabeth	Hendrick	1201 W 45th St	RICHMOND	23225	N/G	Mar 21, 2016
293	Diane	Pendleton	4020 Dunston Ave.	Richmond	23225	N/G	Mar 21, 2016
292	Mary	Godsey	4314 Forest Hill Ave	Richmond	23225	View	Mar 21, 2016
291	Shana	Bloom	2492 Three Oaks LN	Maidens	23102	N/G	Mar 21, 2016
290	Marjorie	Menacker	3022 Porter St	Richmond	23225	N/G	Mar 21, 2016
289	Will	Recinos	N/G	N/G	23225	N/G	Mar 21, 2016
288	Chris	Banks	220 S Colonial Ave	Richmond	23221	View	Mar 21, 2016
287	Ann	Dannhausen	17 James Falls Dr	Richmond	23221	N/G	Mar 21, 2016
286	Nicole	Krause	821 W. 47th Street	Richmond	23225	N/G	Mar 21, 2016
285	Mary-Stuart	Torbeck	3700 Grove Avenue	Richmond	23221	N/G	Mar 21, 2016
284	Paul	Burns	270 NE 42rd Court	Oakland Park	33334	N/G	Mar 21, 2016
283	Amanda	Loy	1023 W 45th St	Richmond	23225	N/G	Mar 21, 2016
282	Amanda	Austin	N/G	N/G	23220	N/G	Mar 21, 2016
281	C.A.	Edgar	3006 Ferncliff Rd	Richmond	23225	N/G	Mar 21, 2016
280	Mark	McKinley	5922 Osoge rd	Richmond	23225	N/G	Mar 21, 2016
279	Pamela	Jewell	6109 Bliley Rd.	Richmond	23225	N/G	Mar 21, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
278	Gwen	Blankenship	808 Brantley Rd	N Chesterfield	23235	N/G	Mar 21, 2016
277	Matt	Lee	3851 Fauquier Ave	Richmond	23227	N/G	Mar 21, 2016
276	Bettye	Gorman	1800 Rawlings st	Richmond	23231	N/G	Mar 21, 2016
275	Michelle	Karpaitis	N/G	Virginia Beach	23451	N/G	Mar 21, 2016
274	ken	pace	7710 anoka rd	richmond	23229	View	Mar 21, 2016
273	Shannon	Cain	6218 Nicolet Road	Richmond	23225	N/G	Mar 21, 2016
272	Melissa	Hull	VA	Richmond	23220	N/G	Mar 21, 2016
271	John	Mason	4307 Springhill Ave	Richmond	23225	View	Mar 21, 2016
270	Ward	Tefft	4306 new Kent ave	Richmond	23225	N/G	Mar 21, 2016
269	Harriet	Covey	4618 Grove Ave	Richmond	23226	N/G	Mar 21, 2016
268	Shannon	Fahey	3304 Forest Hill Ave	Richmond	23225	N/G	Mar 20, 2016
267	Jonathan	Alvarado	N/G	N/G	23320	N/G	Mar 20, 2016
266	Carol	Parke	4620 Devonshire Road	Richmond	23225	N/G	Mar 20, 2016
265	Karen	Long	8516 summit acres drive	Bon Air	23235	N/G	Mar 20, 2016
264	Mary	Webster	1601 brackets bend	Powhatan	23139	N/G	Mar 20, 2016
263	Laura	Greenleaf	7421 Hill Drive	Richmond	23225	N/G	Mar 20, 2016
262	Bob	Burcj	2423 Breckenridge rd	Richmond	23225	View	Mar 20, 2016
261	Pam	Fox	4118 Hillcrest Road	Richmond	23225	N/G	Mar 20, 2016
260	Leslie	Forrest	2324 Singingwoods lane	Henrico	23233	N/G	Mar 20, 2016
259	Gwen	Wolverton-Diggs	19151 horse shoe rd	Charles city	23188	N/G	Mar 20, 2016
258	Aaron	Fowler	6837 Montauk Dr	Richmond	23225-1703	View	Mar 20, 2016
257	Karin	Miller	370 Hanover Road	Sandston	23150	N/G	Mar 20, 2016
256	Christine	Gentry	8520 Sunview Lane	North chesterfield	23235	N/G	Mar 20, 2016
255	Holly	Carlson	5207 Caledonia Rd	Richmond	23225	N/G	Mar 20, 2016
254	Beth	DeByle	4503 West End Dr.	Richmond	23294	N/G	Mar 20, 2016
253	katie	garnett	4028 sharon ct	richmond	23225	N/G	Mar 20, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
252	Ellen	Shepard	4308 Newport Dr.	Richmond	23227	N/G	Mar 20, 2016
251	Catherine	Welsh	3610 S Belmont Rd	Richmond	23234	View	Mar 20, 2016
250	Shana	Moore	3147 Ridge Road	Palmyra	22963	View	Mar 20, 2016
249	lydia	banks	1302 tralee circle	aberdeen	21001	View	Mar 20, 2016
248	Ashley	Lillard	4005 dunston avenue	Richmond	23225	N/G	Mar 20, 2016
247	Gary	Kalar	213 Dundee Ave	Richmond	23225	N/G	Mar 20, 2016
246	Kirsten	Sites	825 Spring St.	Richmond	23220	N/G	Mar 20, 2016
245	Cynthia	Porter	7633 Granite Hall Avenue	Richmond	23225-1013	N/G	Mar 20, 2016
244	Patricia	Bernal	2206 E Grace St	Richmond	23223	N/G	Mar 20, 2016
243	Joshua	Lockwood	410 Dobson St Apt D	Richmond	23220	View	Mar 20, 2016
242	Kathryn	Jones	N/G	Richmond	23229	N/G	Mar 20, 2016
241	Cameron	Booth	211 Bland Street	Richmond	23225	N/G	Mar 20, 2016
240	michele	garrigan	1802 W 44th St	richmond	23225	N/G	Mar 20, 2016
239	Georgianne	Stinnett	1226 Stanhope Avenue	Richmond	23227	N/G	Mar 20, 2016
238	Phoebe	Copeland	701 W Grace St.	Richmond	23220	N/G	Mar 20, 2016
237	Alexander	Banks	1302 tralee cir	aberdeen	21001	N/G	Mar 20, 2016
236	Robin	Ruth	4029 Crutchfield St.	Richmond	23225	View	Mar 20, 2016
235	Michael	James-Deramo	215 West Clay Street	Richmond	23220	N/G	Mar 20, 2016
234	Philip	Lillard	3710 Dunston Ave	Richmond	23225	N/G	Mar 20, 2016
233	Sarah	McLillard	3710 Dunston Ave	Richmond	23225	N/G	Mar 20, 2016
232	Gary	Jaeckel	613 Newkirk Drive	Richmond	23224	N/G	Mar 20, 2016
231	Mark	Larson	5506 Riverside Dr	Richmond	23225-3050	N/G	Mar 20, 2016
230	Luisa	Brooks	N/G	Richmond	23221	N/G	Mar 20, 2016
229	George	Jones	N/G	Richmond	23225	View	Mar 20, 2016
228	Barbara	Jones	3706 Brookside Rd.	Richmond	23225	View	Mar 20, 2016
227	Robert	French	9415 anyhow Ln	Mechanicsville	2316	N/G	Mar 20, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
226	Russell	Endres	5214 Sylvan Rd	Richmond	23225	N/G	Mar 20, 2016
225	sarah	sobcZyk	1101 West 43rd st	richmond	23225	N/G	Mar 20, 2016
224	Edward	Singer	1023 Taylor Avenue	Richmond	23225	View	Mar 20, 2016
223	Breann	Bassler	1624 Monument Ave	Richmond	23220	N/G	Mar 20, 2016
222	Kim	Sholley	846 Irby Drive	Richmond	23225	N/G	Mar 20, 2016
221	Dorothy	Jensen	927 Hill Top Drive	Richmond	23225	N/G	Mar 20, 2016
220	James	Gregg	617 W 32ND ST	Richmond	23225	View	Mar 20, 2016
219	Chuck	Epes	4028 Chevy Chase Street	Richmond	23227	View	Mar 20, 2016
218	tim	fratacangelo	5531 forest hill ave	richmond	23225	View	Mar 20, 2016
217	Mark	Wood	3215 Patterson Avenue	Richmond	23221	N/G	Mar 20, 2016
216	Shelia	Gray	509 S Laurel St	Richmond	23220	View	Mar 20, 2016
215	David	Pohlmann	3014 Seminary Ave	Richmond	23227	N/G	Mar 20, 2016
214	Alicia	Arrington	4707 Luray Ave	Richmond	23231	N/G	Mar 20, 2016
213	Jessica	Shim	611 W. Cary St. Apt 213	Richmond	23220	N/G	Mar 20, 2016
212	I'm Amy	Altman	N/G	Richmond	23225	N/G	Mar 20, 2016
211	John	Bander	1003 W 42nd St	RICHMOND	23225	N/G	Mar 20, 2016
210	Brett	Busang	708 5th Street, NE	Washington	20002	View	Mar 20, 2016
209	Julie	Drechsler	117 Tuckahoe Blvd	VA	23226	N/G	Mar 20, 2016
208	Gail	Campton	2820 mount hill drive	Midlorhian	23113	View	Mar 20, 2016
207	Belinda	Early	5401 Dorchester Road	Richmond	23225	N/G	Mar 20, 2016
206	patricia	cosby	N/G	richmond	23225	N/G	Mar 20, 2016
205	Susann	Whittier	2711 W.Main Street	Richmond	23220	N/G	Mar 20, 2016
204	Diane	Hyra	814 Westover Hills Blvd.	Richmond	23225	N/G	Mar 20, 2016
203	Anne	Berry	N/G	Richmond	23228	N/G	Mar 20, 2016
202	Joan	Putney	5657 St James Ct	Richmond	23225	N/G	Mar 20, 2016
201	Sally	Kannemeyer	4304 Hillcrest Road	Richmond	23225	View	Mar 20, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
200	C.	Kase	9317 Guenevere Pl.	Mechanicsville	23116	N/G	Mar 20, 2016
199	Nano	Ogura	N/G	Richmond	23220	N/G	Mar 20, 2016
198	Cristy	O'Keefe	2615 1/2 Floyd Ave	Richmond	23220	View	Mar 20, 2016
197	Rachel	Ford	N/G	N/G	23220	N/G	Mar 20, 2016
196	Tom	Layman	2822 E. Franklin St.	Richmond	23223	N/G	Mar 20, 2016
195	Katherine	Olson	214 s colonial ave	Richmond	23221	View	Mar 20, 2016
194	Kenneth	Venos	2609 Hanover Ave.	Richmond	23220	N/G	Mar 20, 2016
193	Rachael	Unger	905 W 30th St	Richmond	23225	N/G	Mar 20, 2016
192	Jesse	Senechal	702 W 25th Street	Richmond	23225	View	Mar 20, 2016
191	Jennifer	Vaughan	7227 Berwick Rd	Richmond	23225	View	Mar 20, 2016
190	jim	WITHERS	5724 WOODBURN RD	RICHMOND	23225-2550	N/G	Mar 20, 2016
189	MARSHA	WITHERS	5724 WOODBURN RD	RICHMOND	23225-2550	N/G	Mar 20, 2016
188	Jane	Bowe	2801 Semmes Avenue	Richmond	23225	View	Mar 20, 2016
187	Johannes	Van niekerk	400 w 33 rd str	Rivhmond	23225	View	Mar 20, 2016
186	Lee	Dijoseph	2001 Rawlings street	Richmond	23231	N/G	Mar 20, 2016
185	Denise	Payne	52 east 32nd street	Richmond	23224	View	Mar 20, 2016
184	Katelyn	Schifano	3920 Stockton st	Richmond	23224	N/G	Mar 20, 2016
183	Roberta	McKnight	9400 Derbysre	Richmond	23229	N/G	Mar 20, 2016
182	Ashley	Smith	N/G	Richmond	23220	N/G	Mar 20, 2016
181	Elizabeth	Roderick	N/G	Richmond	23225	N/G	Mar 20, 2016
180	Teresa	Ford	4716 King William Rd	Richmond	23225	N/G	Mar 20, 2016
179	Nina	Marino	2113 Nicolet Circle	Richmond	23225	N/G	Mar 20, 2016
178	Pixie	Hamilton	4716 King William Rd	Richmond	23225	N/G	Mar 20, 2016
177	Ashley	Meade	N/G	N/G	23225	N/G	Mar 20, 2016
176	A	Wright	1901 Southcliff Rd	Richmond	23225	View	Mar 20, 2016
175	Gary	Waynick	4310 Forest Hill Avenue	Richmond	23225	View	Mar 20, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
174	Asheley	Tuck	3203 Rueger street	Richmond	23221	N/G	Mar 20, 2016
173	Lauren	Stevens	4317 New Kent Ave	Va	23225	N/G	Mar 20, 2016
172	Kevin	Gallagher	301 Bland St	Richmond	23225	View	Mar 20, 2016
171	Disna	Vincelli	809 Westover hills	Richmond	23225	View	Mar 20, 2016
170	Judith	Harris	1401 Braeside Drive	Richmond	23225	View	Mar 20, 2016
169	Heather	Cullen	5111 Boscobel Ave	Richmond	23225	N/G	Mar 20, 2016
168	Jennifer	Black	306 W. 28th St	Richmond	23225	N/G	Mar 20, 2016
167	Mary	Stevens	4308 Springhill Avenue	Richmond	23225	N/G	Mar 20, 2016
166	Mark	Robertson	410 W 32nd St	Richmond	23225	N/G	Mar 19, 2016
165	M	Regelson	3019 Noble Ave.	Richmond	23222	View	Mar 19, 2016
164	Kristine	Vandenberg	3218 Douglasdsle Rd	Richmond	23221	N/G	Mar 19, 2016
163	Katrina	Brooks	N/G	N/G	23225	N/G	Mar 19, 2016
162	Brooke	Pega	113 w 30th st	Richmond	23225	N/G	Mar 19, 2016
161	Bre	Bailey	N/G	Richmond	23225	N/G	Mar 19, 2016
160	Matt	Morrison	7 e Jackson st.	Richmond	23219	N/G	Mar 19, 2016
159	Sylvia	Gale	4030 Northrop Street	Richmond	23225	N/G	Mar 19, 2016
158	Travis	Mousel	N/G	Richmond	23227	N/G	Mar 19, 2016
157	Lillian	Varin	3717 Pinoak road, Richmond va	L	23223	N/G	Mar 19, 2016
156	Alli	Alligood	2711 East Broad Street	Richmond	23223	N/G	Mar 19, 2016
155	Esrther	Regelson	109 Washington St Apt 5	New York	10006	View	Mar 19, 2016
154	Michael	Corbett	1200 West 41st St	Richmond	23225	N/G	Mar 19, 2016
153	Beth	Jasper	N/G	Henrico	23228	N/G	Mar 19, 2016
152	Suzanne	Steele	1535 Yeardeley Dr	Richmond	23225	View	Mar 19, 2016
151	Kaitlin	Westbrook	403 Cleveland St.	Richmond	23221	View	Mar 19, 2016
150	Mary	Delicate	1908 Hillcrest Circle	Richmond	23225	N/G	Mar 19, 2016
149	Derek	Johnson	4309 Hillcrest Rd	Richmond	23225	N/G	Mar 19, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
148	Lynn	Anderson	812 W. 44th Street	Richmond	23225	View	Mar 19, 2016
147	Aimee	Munford	4021 Northrop Street	Richmond	23225	N/G	Mar 19, 2016
146	Rebecca	St.Clair	3003 Stonewall Avenue	Richmond	23225	N/G	Mar 19, 2016
145	Peter	Mollica	4015 Dunston ave.	Richmond	23225	View	Mar 19, 2016
144	Richard	Bland	113 N. Lombardy street	Richmond	23220	View	Mar 19, 2016
143	Cameron	Walker	711 West Broad St	Richmond	23220	N/G	Mar 19, 2016
142	MARY	DAVIS	4804 S 23RD RD	ARLINGTON	22206	N/G	Mar 19, 2016
141	Kong	Nou	N/G	Richmond	23225	N/G	Mar 19, 2016
140	Greta	Bollinger	4208 Hillcrest Rd	Richmond	23225	View	Mar 19, 2016
139	Brad	Cooke	Westover hills	Richmond	23225	N/G	Mar 19, 2016
138	Ruth Anne	Young	2507 Semmes Ave.	Richmond	23225	N/G	Mar 19, 2016
137	Mary	Scott	1005 Taylor avenue	Richmond	23225	N/G	Mar 19, 2016
136	Beth	Glasser	312 North Monroe St.	Richmond	23220	View	Mar 19, 2016
135	Gurveen	Kour	15259 dumfries road	Manassas	20112	N/G	Mar 19, 2016
134	Laura	Posthumus	5106 Clarence st.	Richmond	23225	View	Mar 19, 2016
133	Kris	Woodson	N/G	va	23222	N/G	Mar 19, 2016
132	Anne Moss	Shelton	1917 Southcliff Road	Richmond	23225	N/G	Mar 19, 2016
131	Melissa	Linkous	4910 Pine Crest Avenue	Richmond	23225	N/G	Mar 19, 2016
130	Luis	Cabrera	5616 seminary rd.	alexandria	22311	N/G	Mar 19, 2016
129	Molly	Watson	1200 Park Ave	Richmond	23220	N/G	Mar 19, 2016
128	Stewart	Powell	6004 Rois Road	Richmond	23227	N/G	Mar 19, 2016
127	Martha	Waynick	4310 Forest Hill Ave	Richmond	23225	N/G	Mar 19, 2016
126	John	Haverkamp	717 Govenor's Way	Waynesboro	22980	N/G	Mar 19, 2016
125	Debbie	Rowe	1624 Pope Ave	Richmond	23227	N/G	Mar 19, 2016
124	Kira	Price	227 Germania St.	Fredericksburg	22401	N/G	Mar 19, 2016
123	Katy	Moffett	1722 Blair street	Richmond	23220	N/G	Mar 19, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
122	Michael	Spanel	5506 Devonshire Court	Richmond	23225	View	Mar 19, 2016
121	Alex	Ritter	3700 Brookside Road	Richmond	23225	N/G	Mar 19, 2016
120	Christopher	Catanzaro	N/G	Richmond	23225	View	Mar 19, 2016
119	Suzette	Lyon	4028 Northrop Street	Richmond	23225	View	Mar 19, 2016
118	Emily	Gambone	705 W 32nd St	Richmond	23225	N/G	Mar 19, 2016
117	M	Lunsford	619 w 25th st	Richmond	23225	N/G	Mar 19, 2016
116	Karen	Kincaid Wittich	5020 New	Richmond	23225	View	Mar 19, 2016
115	James	Shelton	811 Roehampton Ct	Richmond	23236-3727	View	Mar 19, 2016
114	Bruce	Jones	4208 HILLCREST ROAD	RICHMOND	23225	N/G	Mar 19, 2016
113	Arthur	Kay	511 Hancock St	Richmond	23220	View	Mar 19, 2016
112	Jill	Krohn	4027 Chevy Chase St	Richmond	23337	View	Mar 19, 2016
111	Francine	Rapp	909 wear 32nds street	Richmond	23225	N/G	Mar 19, 2016
110	Robert	Argabright	3131 Stony Point Rd UNIT E	Richmond	23235	View	Mar 19, 2016
109	Ben	Colteaux	3006 New Kent Ave	Richmond	23225	View	Mar 19, 2016
108	Pamela	Piero	4013 Sharon Ct	Richmond	23225	N/G	Mar 19, 2016
107	Sarah	Skeen	4906 Pine Crest Avenue	Richmond	23225	N/G	Mar 19, 2016
106	Karen	Kardian	N/G	Richmond	23235	View	Mar 19, 2016
105	Susan	Kennedy Spain	3009 Stonewal Avenue	Richmond	23225	N/G	Mar 19, 2016
104	William	Loy	N/G	Richmond	23225	View	Mar 19, 2016
103	Stephanie	Foertmeyer	607 W 25th St.	Richmond	23225	View	Mar 19, 2016
102	Richard	Farley	1729 Porter Street	Richmond	23224	View	Mar 19, 2016
101	Theodore	Nelson	4306 Smithdeal Ave	Richmond	23225	N/G	Mar 19, 2016
100	Jimmy	McMillan	4703 Sylvan Rd.	Richmond	23225	View	Mar 19, 2016
99	Barbara	Tomlinson	4006 Crutchfield Street	Richmond	23225	View	Mar 19, 2016
98	Yewell	Thompson	1804 Westover Hills Blvd.	Richmond	23225	N/G	Mar 19, 2016
97	scott	hamilton	4027 Northrop St	Richmond	23225	N/G	Mar 19, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
96	stephanie	bertram	3724 brookside rd	richmond	23225	N/G	Mar 19, 2016
95	Rebecca	Keel	N/G	Richmond	23220	N/G	Mar 19, 2016
94	Jeremy	Parker	6476 Barksdale rd	Henrico	23231	N/G	Mar 19, 2016
93	Lelia	Pendleton	811 W. 44th St.	Richmond	23225	View	Mar 19, 2016
92	Jacqueline	Crowley	5215 Campbell Ave	Richmond	23231	N/G	Mar 19, 2016
91	Matthew	Tankersley	N/G	Richmond	23221	View	Mar 19, 2016
90	Ralph	Paine	3163 eakin park court	Fairfax	22031	N/G	Mar 19, 2016
89	John	Moser	1409 Westbrook Ave	Richmond	23227	N/G	Mar 19, 2016
88	Sue	Land	4612 Sylvan Rd.	Richmond	23225	View	Mar 19, 2016
87	Lauren	McDonald	811 West 49th Street	Richmond	23225	N/G	Mar 19, 2016
86	Elizabeth	Fowler	6837 Montauk Dr	Richmond	23225	N/G	Mar 19, 2016
85	farid alan	Schintzius	3321 garland ave	richmond	23222	N/G	Mar 19, 2016
84	Jordan	Peterd	5922 osoge rd	Richmond	23235	N/G	Mar 19, 2016
83	Jan	Uecker	4311 Reedy Ave	Richmond	23225	View	Mar 19, 2016
82	Lisa	Dunaway	705 w 33rd st	richmond	23225	N/G	Mar 19, 2016
81	diane	hill	404 w 27st	richmond	23225	View	Mar 19, 2016
80	Mary	Boyes	1600 Westover Hills Blvd	Richmond	23225	N/G	Mar 19, 2016
79	Cynthia	Gricus	5307 Dorchester Rd.	Richmond	23225	View	Mar 19, 2016
78	Jenni	Bachman	1601 1/2 Carlisle Avenue	Richmond	23231	N/G	Mar 19, 2016
77	GROVER	MCDONALD	811 West 49th Street	Richmond	23225	View	Mar 19, 2016
76	Rachele	Roberts	217 w 34th st	Richmond	23225	View	Mar 19, 2016
75	Mary-Helen	Sullivan	2023 Grove Ave	Richmond	23220	N/G	Mar 19, 2016
74	Ernest	Wilson	1734 Leicester Rd.	Richmond	23225	View	Mar 19, 2016
73	Andrea	Steegmayer	7825 Marilea Road	Richmon	23225	View	Mar 19, 2016
72	Carol	Buckingham	804 West 30th St	Richmond	23225	N/G	Mar 19, 2016
71	Elizabeth	Wall	620 N 30th St	Richmond	23223	N/G	Mar 19, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
70	Debra	Strickland	5022 Caledonia Rd	Richmond	23225	N/G	Mar 19, 2016
69	Patricia	Wood	3712 Brookside Rd	Richmond	23225-4730	View	Mar 19, 2016
68	Lisa	Perilli	1209 Leicester Rd	Richmond	23225	View	Mar 19, 2016
67	Angela	Worris	5920 forest hill avenue	Richmond	23225	N/G	Mar 19, 2016
66	Valarie	B	N/G	Va	23225	N/G	Mar 19, 2016
65	chris	zechini	4029 Northrop St	richmond	23225	N/G	Mar 19, 2016
64	Edward	Gable	4204 Forest Hill Ave	VA	23225	View	Mar 19, 2016
63	Rebekah	Jewell	N/G	Richmond	23225	N/G	Mar 19, 2016
62	Tom	Walsh	4609 Bassett Ave	Richmond	23225	N/G	Mar 19, 2016
61	John	Moody	9184 breeders cup place	John	23116	View	Mar 19, 2016
60	Amy	Treonis	819 W. 29th St.	Richmond	23225	N/G	Mar 19, 2016
59	Susan	Price	Forest Hill Ave	RICHMOND	23225	N/G	Mar 19, 2016
58	Jeff	Nester	501 Byswick Ln	Richmond	23225	N/G	Mar 19, 2016
57	Christopher	Ashman	1602 W. 42nd St.	Richmond	23225	View	Mar 19, 2016
56	Joshua	Rogers	5005 Riverside Dr	Richmond	23225	View	Mar 19, 2016
55	adam	goldsmith	4008 Sharon CT.	Richmond	23225	N/G	Mar 19, 2016
54	Andrew	Mondak	3930 COGBILL RD	NORTH CHESTERFIELD	23234	N/G	Mar 19, 2016
53	Mark	Mumford	N/G	Richmond	23225	N/G	Mar 19, 2016
52	Paige	Harvey	4716 Cutshaw Avenue	Richmond	23230	View	Mar 19, 2016
51	megan	rollins	2040 Cedarhurst Drive	richmond	23225	N/G	Mar 19, 2016
50	Emily	Faye	4018 Dunston Ave	Richmond	23225	View	Mar 19, 2016
49	Rod	Burke	1015 W. 42nd. St.	Richmond	23225	N/G	Mar 19, 2016
48	Sonja	Rife	737 Cottonwood Ryegrass Rd.	Daniel	83115	View	Mar 19, 2016
47	Karen	Call	1719 Avondale Ave	Richmond	23227	N/G	Mar 19, 2016
46	Melissa	Burgess	N/G	Richmond	23225	View	Mar 19, 2016
45	DANIEL	MEGAR	2605 HANOVER AVE	RICHMOND	23220	View	Mar 19, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
44	Jennifer	Bogut	7 adams st	Somerville	08873	N/G	Mar 19, 2016
43	Nicole	Saur	2801 Walnut Dr	Quinton	23141	N/G	Mar 19, 2016
42	Davis	Wrinkle	7741 Rock falls Dr	Richmond	23225	N/G	Mar 19, 2016
41	Didi	Chisholm	Dundee Ave	Richmond	23225	View	Mar 19, 2016
40	Charles	Woodson	302 South Cherry Street	Richmond	23220	N/G	Mar 19, 2016
39	Leah	Geiger	1506 westwood ave	Richmond	23227	N/G	Mar 19, 2016
38	Alyssa	Freeman	1241 Apt. B7 Gaskins Rd	Henrico	23238	N/G	Mar 19, 2016
37	Bryant	Moore	4315 Stonewall Ave.	richmond	23225	N/G	Mar 19, 2016
36	Tara	Powell	400 Cobblestone Drive Apt 309	Fredericksburg	22401	N/G	Mar 19, 2016
35	Melissa	Davis	1224 Irby Dr.	Richmond	23225	N/G	Mar 19, 2016
34	Carp,yn	Paulette	4312 Forest Hill Ave.	Richmond	23225	N/G	Mar 19, 2016
33	Bill	McKelway	401 w. 33rd richmond, va 23225	richmond	23225	View	Mar 19, 2016
32	Lynn	Pelco	N/G	N/G	23284	N/G	Mar 19, 2016
31	Darlene	Dragavon	8107 Provincetown Dr	North Chesterfield	23235	N/G	Mar 19, 2016
30	Jonathan	Marcus	2211 W. Grace Street	Richmond	23220	N/G	Mar 19, 2016
29	Terrie	McSween	3749 Birdwood Rd	Richmond	23235	View	Mar 19, 2016
28	Gina	Collins	4500 Reedy Avenue	Richmond	23225	N/G	Mar 19, 2016
27	Eileen	Tangley	2110 wedgewood ave	henrico	23228	View	Mar 19, 2016
26	Michele	MacPhee	4107 Boscobel Ave	Richmond	23225	N/G	Mar 19, 2016
25	Scott	Burger	612 S. Laurel St.	Richmond	23220-6514	View	Mar 19, 2016
24	christopher	JOERG	4608 SYYVAN RD	richmond	23225	N/G	Mar 19, 2016
23	Tom	Orr	1361 Page Rd	Powhatan	23139	N/G	Mar 19, 2016
22	Mary	Trice	5105 Riverside Drive	Richmond	23225	N/G	Mar 19, 2016
21	Marjolein	de Wit	4301 Springhill Ave	Richmond	23225	N/G	Mar 19, 2016
20	Paula	Ogston	N/G	Richmond	23225	View	Mar 19, 2016
19	Andrew	Lester	1013 w 48 street	Richmond	23225	View	Mar 19, 2016

#	FirstName	Surname	Address	Town/City	Zip/PC	Comment	Date
18	Cristi	Cousins	808 w 29th st	Richmond	23225	N/G	Mar 19, 2016
17	Hank	Helmen	183 Spring Oaks Ln.	Ruckersville	22968	N/G	Mar 19, 2016
16	TRAVIS	FELLOWS	3151 Moody Ave	Richmond	23225	View	Mar 19, 2016
15	Shannon	Taylor	N/G	Richmond	23225	N/G	Mar 19, 2016
14	Charles	Fehle	300 S Randolph St	Richmond	23220	View	Mar 19, 2016
13	Sonali	Krishna	2405 Lake Loreine Ln	Henrico	23233	N/G	Mar 19, 2016
12	Glenda	Kotchish	14 East 12th Street	Richmond	23224	View	Mar 19, 2016
11	Karen	Murphy	324 Woodbrook Run	Newport News	23606	N/G	Mar 19, 2016
10	Jesse	McCoy	1200 West 47th	Richmond	23225	N/G	Mar 19, 2016
9	Rob	Huddleston	4000 forest hill ave	Richmond	23225	N/G	Mar 19, 2016
8	Lin	Rasmussen	4207 Fauquier Avenue	Richmond	23227	N/G	Mar 19, 2016
7	Nadja	Gutowski	5703 Bromley Lane	Richmond	23226	N/G	Mar 19, 2016
6	Carol	Ridderhof	3018 New Kent Ave.	Richmond	23225	N/G	Mar 19, 2016
5	Debra	Hedberg	4405 Stonewall Avenue	Richmond	23225	N/G	Mar 19, 2016
4	David	Ridderhof	N/G	N/G	23225	N/G	Mar 19, 2016
3	David	Fahey	211 bland st	Richmond	24225	View	Mar 19, 2016
2	Blake	Evans	610 w 49th st	Richmond	23225	N/G	Mar 19, 2016
1	CYNTHIA	MASHBURN	801 W 49TH ST	RICHMOND	23225	View	Mar 14, 2016

* N/C - field not collected by the author

* N/G - not given by the signer

* S/C/P - State, County or Province

* PC - Post Code

* View - view comment

Appendix: All signatures comments

820 catherine spence

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I am vigorously opposed to the proposed stream restoration on Reedy Creek.

815 Lauren Dubovsky

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Preserve our trees!!!!

814 Lori Duffy

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Totally reckless pseudo environmental fix. Better to save the thriving trees than sacrifice them for a non viable creek. How about beefing up public transportation and improving our air?
Lori Duffy

810 Charles Ellis

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As a former resident of Chesterfield County and job-holder in Richmond (1979-2007) and as a friend to many Richmonders (since 1979), I urge Richmond's City Council to stop the so-called "stream restoration plan" along Reedy Creek. The losses of more than 400 mature trees as part of a 7.4-acre clearing effort, the damage to the stream from water pollution, destruction of wetlands, and raising of water temperatures resulting from the clearing and the upstream gutters, can hardly be defined as a stream restoration, no matter what else is offered as a project benefit. Instead, the project, as I understand it, would be a grave insult to the City's environment and an unnecessary aggravation of downstream water pollution, rising temperatures, and the water quality of the Chesapeake Bay. The whole works would also contribute to global warming -- which, in case you haven't noticed, is getting worse all the time.

806 Philip Latasa

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Beavers before bulldozers! Stream restoration is the path of least resistance, but a poor second choice to watershed restoration focused on limiting stormwater before it reaches streams.

800 Ann Woodlief

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This would make the drainage problem much worse, not better.

799 Judi Ellis

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Save those trees!

796 Mary Ellen Mercer

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This sounds like a project that will result in the opposite of the aim. Pulling mature, native trees (as very many of them are) will result in more erosion of streams of Reedy Creek. The project doesn't deal with stormwater and won't filter pollutants from that water to help the Chesapeake Bay. Please, please take another look at this. Thank you!

794 Marion Macdonald

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The proposal is flawed because of poor planning, high risk low benefits for 1.3 millions cost, and does not core t the underlying problems of bank erosion and storm water runoff

793 Grant Matthews

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This isn't a restoration, its a destruction. Its not a long term fix, the stream will create the course of least resistance and this is by no means a permanent solution. 10 acres of trees were destroyed on Bliley, many more over off Jahnke for a new development, we can't tear down 7 more acres in the same area of town to redig a stream. there is a better way to comply.

792 CHRIS ECKBERG

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Together we can stop this senseless bureaucratic fueled slaughter.

788 J Stoneking

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Even though you will replace trees, you can NEVER replace the root system along the creek. It will destroy the primary filtration system & the ground retention method.

784 holly rhode

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Please respect our neighborhood, our river, our bay, our town, our state.....The greenspace sanctuary that this provides to all those in our community is sadly in jeopardy, as is the entire environment, with this proposal. And that is the myopic view considering the impact it will have on preservation of so much life, including that of our river, the bay, and its entire life support system. As a gravely concerned citizen do not waste our tax dollars or risk our ecological integrity with this proposed „restoration"

Sincerely,

Holly Rhode

782 william nelson

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Removing 500 trees plus all the saplings and smaller growth is without regard for the environment and will never be replaced.

780 Patrick Farley

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DPU, City Council, Richmond Planning Commission, Mayor

778 Michele Rogers

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This petition raises a compelling argument against this "stream restoration". Everyone in the city should be made aware of the facts.

777 Louis Ross

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Save the trees please!

773 Georgianne Stinnett

[Back to signature list](#)

This is an absolutely ridiculous project. It will do nothing to improve environmental quality. It will only line someone's pockets with money.

768 Jenny Rogers

[Back to signature list](#)

Denuding trees is rarely the best solution to an environmental problem, particularly when concerned with the are concerned, & it's complete vulnerability to everything upriver.

767 Phylliss Moret[Back to signature list](#)

Prudence for long-term systems-thinking should compel wise, mindful leaders to connect the findings of the 2012 watershed plan with a stream conditions assessment ... Please!

762 Joseph Crane[Back to signature list](#)

With all the budgetary problems Richmond has, this seems to be a very poor use of my tax dollars and one with definite damage to the environment.

761 James Gregg[Back to signature list](#)

I'm against the Reedy Creek change.

760 Bentley Cobb Jr[Back to signature list](#)

Don't do it.

755 Kent Thompson[Back to signature list](#)

Given the overall needs of the City relative to available funds in areas such as schools, etc., the City's poor track record with such projects, the high potential for unintended results and the high cost relative to the minimal to adverse potential benefit I am opposed to the deforestation of the Reedy Creek area.

749 Renate Forssmann-Falck[Back to signature list](#)

I strongly oppose this project

748 Jason Alley[Back to signature list](#)

Although I am not a resident of the neighborhood surrounding Reedy Creek, my family loves spending time there & would hate to see it ruined by another poorly researched & planned city project.

742 Carl Johnson[Back to signature list](#)

Obvious!!! Good Lord! Good job on this petition.!!!

735 Reece O'Donnell[Back to signature list](#)

I am a Master's of Environmental Science student at Christopher Newport University and agree that this is not a sound restoration attempt

733 Larry Olanrewaju[Back to signature list](#)

As a city we should pay attention to the concerns of residents. All expertise about issues affecting our neighborhoods and environments do not reside at city hall. The members of the Reedy Creek Coalition have studied the issues and it is important that their concerns be taken into consideration.

720 Catherine Harold[Back to signature list](#)

Restoration should begin in the upper watershed and address the sources of the degraded stormwater runoff. The project is not stream restoration it is stream relocation and channelization.

719 George Knipe

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I appose the removal of the over 400 trees because I feel that the money would be better spent in other ways including controlling the run off by removing the concrete channel upstream.

711 Alex Dyer

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Save the trees!

710 Kate Pulman

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Wish for the tree at Brook and Adams to remain strong and upright. There's more history in that tree than there is in a man made statue that is proposed to take its place!

705 Tinga Mastrelli

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Please listen to reason and delay this restoration for a better plan!

699 Carol Kozlowski

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Please don't destroy this habitat, I finally have some great grand children who will love the outdoors

697 joel cabot

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It's just the beginning of something bigger

696 stephen Roberts

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stop reedy creek restoration

695 John Butcher

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<http://calaf.org/?p=2525>

689 Laura Harvey

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Starting farther upstream on land that is already cleared or partially cleared would be a much better option. We need to look at alternatives before we cause more harm than help.

686 Nellwyn Skinner

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I can not believe the city wants to spend this much money and remove 300 trees for the banks of Reedy Creek. I read the article when was on the front page of the newspaper and sent it to my brother in NC. He is the Town Manager of a small town there and he also thought it was bad use of the city's resources.

683 Stephen Waldron

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I fail to see how removing riparian buffer zone from this section of Reedy Creek makes any sense in improving water quality.

676 Daniel Graff II

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We need more trees, not less. The pictures of the proposed site upgrades look nice, however I don't feel they address

the real issues of Reedy Creek.

674 Michael Puglia

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Save Reedy Creek!!!!

673 raymond hubbaed

[Back to signature list](#)

crazy aggressive plan

669 Andrew Pederson

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Doesnt sound like the city has thought this through. If they cant cut the grass at our schools then how are they going to maintain a creek?

667 Steve martin

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Please no bike paths and no cutting of the trees.

664 Daniel Mouer

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I am a the retired Director of VCU's Archaeological Research Center. I recently visited the location of the proposed "Reedy Creek Restoration Project." As I understand the purpose of the proposed project is to alleviate the consequences of erosion in the valley. I believe that will be a difficult to impossible proposition, because the creek is lined with what appear to be the remains of 19th- and early 20th-century granite quarrying operations. The steep vertical walls of Reedy Creek, like those of Crooked Branch Ravine Park and much of Reedy Creek's course through Forest Hills Park are due to massive quarrying efforts in the past. Granite quarrying was central to the region's economy, and the history of this work is preserved in quarry sites and other archaeological remains along the stream.

I hope that a full, proper, transparent assessment of Reedy Creek's natural and historic resources will be completed before this project is launched and damage is done, and I am requesting that the U.S. Army Corps of Engineers require such assessments prior to granting a permit for the project..

656 Rebecca Whitson

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Under researched proposal that doesn't sound like it will fix it.

653 Kristen Nutter

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If we can't afford to cut the grass, we should not be even considering CLEARCUTTING a perfectly healthy and beautiful collection of mature trees, much older than anyone making these decisions to execute them with little exponential benefit or explanation. This is an outrage and the city needs to stop this.

646 Lynn Wilson

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There is something very, very wrong about this "stream restoration." Shame on the city -- and on any locality -- that proceeds to "check the boxes" in the face of substantive objections. Where are the elected officials with integrity on this?!?!?

645 Nancy Freed

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Great informational interview by Bill Shanabruch on Lightly on the Ground

636 Caryl Burtner

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This is the stupidest thing the city has proposed yet.

633 Whitney Zarei

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Please!!!!!!! Please don't do this. Get specialists on board to help you figure a way around what's happening without damaging Reedy Creek and its creek banks.

632 Josh Evans

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Seems like a short sighted plan and should be re-evaluated

626 Andrew Sullivan

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I don't trust the current administration whatsoever right now to do the right thing.

625 William Teeples

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Protect Reedy Creek

622 Melvin Ely

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I want to defend the Chesapeake Bay, but I am firmly opposed to the destruction of hundreds of trees in our neighborhood, especially in the name of stream "restoration" that is unlikely to work.

621 John Thomasson

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Save the stream, the wildlife and the trees. The stream has been functioning fine for 100's of years without human intervention. The last brilliant idea was to concrete part of it.

613 judith nelson

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Leave Reedy Creek alone! Nature is smarter than you are - why don't you know that? The diversity of plants and trees is amazing there - you cannot improve on this natural site. Go away.

608 Pamel Turner

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The proposed project has high potential to do more harm than good. Please heed the concerns of the Reedy Creek Coalition.

606 Kris Iden

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DON'T cut DOWN these TREES - figure out a way to pay for their care !!

604 Mary Wickham

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This project needs to be reconsidered. Please do not destroy this beautiful pocket of urban forest to pursue a poorly planned "stream restoration" project.

602 Monica Rumsey

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How dare you ravage poor little Reedy Creek in the name of stream restoration? You should be ashamed of yourselves. Reedy Creek runs through "the last remaining forest in Forest Hill." If this is the best you can do, then stop right now and start over.

587 Hope Ford

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Lord we need a new mayor.

581 Kathleen Ryan

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Stop the madness.

563 Athena Huss

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I lived in the area last year and am strongly opposed.

556 Sarah Ferriter

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Cutting back green space around the creek is ill advised and an encroachment on the park and its surroundings. Trees only enhance pollution and runoff controls. We need more mature trees NOT fewer of them!

543 Robert Heinitz

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I encourage the City of Richmond to develop a new plan to restore the Reedy Creek watershed that does not destroy the existing mature tree canopy. The roots of the existing trees provide a vital foundation for the creek and prevent erosion. Thank you.

542 Forest Mcneill

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Trees are sacred. They are home to much life. This unnecessary killing will not go unpunished. This is truly asking for bad karma. Richmond city council has sanctioned the killing of too many mature trees. Don't do this! For the love of God's creation DON'T DESTROY LIFE.

534 Deborah Belt

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Let the trees be. Please!

529 Charles Ralston

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This is a waste of money. Plant more trees. One of the many countless benefits of mature trees and their roots and the vegetation that grows under them is that they are extremely effective at controlling erosion and catching runoff. Please think ecologically about what is being proposed here.

525 Micah Kemp

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A full environmental impact analysis and watershed planning should be done prior to this. Use the tax-dollars for smart planning or other projects!

524 TAK Hudson

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Please do not tear these trees down. It is very important to maintain this ecosystem. Our children need to have a place that is not pure asphalt. Thank you.

514 Lee Shewmake

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Dear Government,

Please stop spending money for the sake of spending. Let us see some real leadership that spends wisely instead. Thank you to all the RCC members past and present for your dedication and passion and vigilance on this and other matters. You are all tremendous assets to our community.

509 Genevelyn Steele

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Please do not do this! We lost so much wildlife after the hurricane knocked only a few trees down. And the trash that accumulates from unmanned creek walkways is a disaster. DONT DO IT!!

495 Tracy Kline

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There are better options.

493 Diana Urbiztondo

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Natural creek in premises of city should be treated like a treasure! Its unforgivable to " butcher" and destroy it as there will be no repairs to damage done ,wildlife and trees should be treated with responsibility , .the restoration project seems to be simply a disaster in many ways! It should not be done in haste as there's better ways to improve the situation!

470 stephanie saccone

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I strongly oppose this.

467 Kalene Szymczak

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Do not cut down Rvas mature trees!

461 Amber Thomas

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Please save these trees.

460 Missy Olds

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It can't hurt to take more time to find a better solution.

457 stuart harlow

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the sensitive creek bed must not be destroyed

456 Mary Zeugner

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Please don't mess with the mature trees. Better planing needs to be done for after the project.

451 Allison Mesnard

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The mature trees of Richmond are a resource that should not be taken lightly. There must be a green solution to creek maintenance without destroying so many trees!

449 Elmo Alexander

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I support this cause but I don't want to get mail and emails from you guys all the time.

446 Janine Lester

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We need environmental impact studies to be made public before approving projects such as this.

443 Amy Bergmann

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This project is one that sounds good, but in reality is not what is needed to correct the issue. Spend this money on truly beneficial environmental problems. Don't take these Reedy Creek trees!

441 Cheryl Phillips

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Please think again about destroying these trees which are homes and shelter to much of our local wildlife! These trees help prevent soil erosion as well!

437 Caroline Butler

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Do not remove these trees

436 Marina Alexander

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This is a area that host amphibians, an owl, many songbirds and has mature trees who keep or air clean, and the entire area sheltered from school noise, train noise and traffic noise.

433 Jean Neal

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Jean Neal

431 Margaret Seals

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This is an ill-conceived project that will cost thousands and thousands of dollars to correct if undertaken, and will cost thousands of dollars in lost eco-system services from the destroyed trees with no -- repeat. NO -- benefits to the city and its taxpayers.

425 Nicole Anderson Ellis

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I am a strong supporter of stream restoration, but it seems counterproductive to remove mature tree cover, when planting trees is such a widely accepted best practice for reducing stormwater.

423 Sherry Keating

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This shows Incompetence and No knowledge . There are more urgent and less destructive things the city needs that money for. For once do your homework on your thinking of all the great ideas you have done that has been disastrous . Sherry keating

419 Steven Heinitz

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I would like to request that this project be put on hold until alternative plans are developed to reduce the amount of native trees that would be disturbed under the existing project.

417 Thomas Lacy

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Although I do not live in the affected area I have family that does. Interrupting one seemingly small waterway and taking down a few trees impacts the environment more than just what is initially done. Besides, Richmond Public Schools could use the money for better purposes.

414 Liza Zechini

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I grew up on this creek. I learned about nature, animals, and the circle of life on this creek. I learned to respect nature by playing with the rocks, sand, algae, trees, and fish in this beautiful creek. Don't destroy what is not your's to destroy! It is more than land to be claimed and adjusted, it is nature and should not be disturbed!

412 Patricia Morrison

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Grant monies could be shifted to help the RPS refit the schools that are causing the most storm water runoff. That appears to be a more urgent problem. Schools have an outrageous storm water bill

407 Virginia Anderson

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Do not use my tax dollars to destroy hundreds of mature trees which are preventing erosion on Reedy Creek! I would like to see a well thought out plan to address the needs of this area.

403 Catharine W. Tucker

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It is a crime to remove these trees. It will increase run-off into the James, decrease quality of landscape for residents of the area, adversely affect Forest Hill Park, increase light escaping to sky, remove shade & cooling effects in summer. And that's just the beginning. I haven't begun to mention the damages caused by workmen with tree-removal equipment. This project is ill-conceived & fails to consider any of the positive aspects of the trees in intercepting & holding water, allowing it to percolate into the ground. BAD IDEA!!

402 Marlene Paul

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Please!!!!

401 Kathleen Markowitz

[Back to signature list](#)

Please do not destroy 400 plus mature trees.

400 Nancy Baker

[Back to signature list](#)

Stop this destruction.

393 Sue Ridd

[Back to signature list](#)

The city is undertaking this proposal primarily to meet its responsibilities under the Chesapeake Bay TMDL. Yet, the numbers in the city's Chesapeake Bay TMDL Action Plan show that the Reedy Creek stream restoration project would not be needed for many years. There is ample time to formulate a comprehensive Reedy Creek watershed restoration plan and implement it systematically.

390 Mike Crowley

[Back to signature list](#)

This stream restoration project seems rather misguided. I don't understand the benefit, and therefore I question why this should be done.

388 Rhenda Mason-Armetta

[Back to signature list](#)

My children attend PHSSA they use forest hill park and reedy creek as an outside classroom every week. To destroy all of these beautiful trees would be incredibly devastating to our beautiful park system. Don't do it!

387 Rod Leger[Back to signature list](#)

This is a disgrace. Whatever happened to preserving nature.
We must learn to temper ourselves.
Man is not superior to nature.
We need to live in harmony with her, not against her. Find another solution.
Respecyfully,
Rod

384 joy glass[Back to signature list](#)

Do not cut down the trees! they are needed for water quality and to protect our environment.

377 Daniel Zipperer[Back to signature list](#)

My students need textbooks that are more modern than 2003. You don't have money for my classroom but you have money for this destructive waste? If this is done it will damage the environment not help it.

363 Ronnie Durie[Back to signature list](#)

I employ you to,reconsider this move of action to this matter.I think that removing 424 trees and taking the last pristine area,ls a travesty.So PLEASE DONT DO THIS.Thanks

360 Liana Major[Back to signature list](#)

With so many areas of Richmond's greenery and the James River Park System underfunded and in need of more care and maintenance, let's invest in those places instead. The city's proposed plan falls short in terms of due diligence in planning, environmental impact, and ongoing maintenance, which makes me very hesitant to offer support seeing other areas in dire need. These green (and blue) spaces make Richmond unique and it's why I call it home. Let's double our focus on areas that need more support!

353 John ZEUGNER[Back to signature list](#)

I know the Reedy Creek watershed very well.
I agree with the criticism that the City plans to do the most convenient work, rather than the most effective work.
Removing hundreds of trees will accelerate water velocities and add to SW sediment loads, and exacerbate erosion where high stream banks are already exposed and eroding. Recognize some of the flawed fundamental assumptions, and do the project right, as the RCC has urged. Please!

345 Kate Anders[Back to signature list](#)

trees are beautiful and they help us breath.

343 Emily Smith[Back to signature list](#)

SAVE THE TREES!!! I live on the James river and don't plan on having my house flood due to erosion...

336 Tom Campagnoli[Back to signature list](#)

Please take into account this 7 points of this petition. Spend more time and do it right. Especially pay attention to points 1 & 2 and choose an alternate plan to fulfill the city's obligations.

333 Anna Gethins[Back to signature list](#)

We must protect our environment in a caring way.

331 Susanna Raffenet

[Back to signature list](#)

The concept lakes sense and preparation.

317 kathy herrell

[Back to signature list](#)

Every time the city gets money from the feds they seem to create more problems in order to use said money.

316 Tinga and Ray Mastrelli

[Back to signature list](#)

Ridiculous plan under the circumstances.

306 arthur Butt

[Back to signature list](#)

Let's get this right!

301 BRIAN ECKBERGW

[Back to signature list](#)

We need to save trees not cut them down for a needless & pointless Gov't Pork Project.

300 Jackie McDonnough

[Back to signature list](#)

collect data on impact of tree removal first.

292 Mary Godsey

[Back to signature list](#)

This destruction will be another horrible mistake on the part of the City of Richmond.

288 Chris Banks

[Back to signature list](#)

I am concerned about the removal of trees, the apparent lack of planning, and the questions raised for the justification.

274 ken pace

[Back to signature list](#)

Looks like a no brainer to me. Looks like the project will create disastrous results Nature seems to know best and if it ain't broke, don't fix it!

271 John Mason

[Back to signature list](#)

Please save the trees!

262 Bob Burcj

[Back to signature list](#)

Please get more input from responsible groups before doing something so drastic

258 Aaron Fowler

[Back to signature list](#)

i don't have anything nice to say.

251 Catherine Welsh

[Back to signature list](#)

This is a poor plan to control runoff. It is costly and will be expensive to maintain (if it is maintained- always a problem in the City of Richmond).

250 Shana Moore

[Back to signature list](#)

I work in Richmond, and hope to move there in near future. I also have many friends in the immediate areas impacted by this project. Let's work smarter, not faster.

249 lydia banks

[Back to signature list](#)

Please, do not cut down these trees. It always seems that is the solution we like to go for. If you search, you can find another way. Thank you

243 Joshua Lockwood

[Back to signature list](#)

Stop this madness!

236 Robin Ruth

[Back to signature list](#)

The City is supposedly trying to meet its pollution reduction goals by removing 400 trees on the only section of Reedy Creek which has not been ruined by previous channelization projects carried out by the City. In reality this is because this is the most accessible area and would be the cheapest way to supposedly do this. In fact we have hard scientific facts to suggest the stream banks degraded by this project will only be more subject to erosion from fast moving water coming from the channelized sections upstream. There are other ways the pollution reduction goals could be achieved which would have a much greater chance of ultimate success.

229 George Jones

[Back to signature list](#)

My property backs up to the creek near Forest Hill Park. I feel this restoration done improperly my harm the creek and possibly my property.

228 Barbara Jones

[Back to signature list](#)

We live on Reedy Creek and are very much in support of the Reedy Creek Coalition and against the City's Plan. The City has consistently asked for feedback from citizens on various initiatives and has often ignored public opinion and proceeded with the City's original plan. Hope this will not be another example.

224 Edward Singer

[Back to signature list](#)

The City's plan is flawed and will cause more harm than good to the watershed. Leave the trees!

220 James Gregg

[Back to signature list](#)

Healthy trees MUST be preserved, not cut down.

219 Chuck Epes

[Back to signature list](#)

Given the objections to this project and that it does not conform to the city watershed plan, I urge Richmond DPU to halt its Reedy Creek restoration plans and consider alternatives that will better address the volume of upstream runoff, erosion problems, and preserve the existing trees.

218 tim fratarcangelo

[Back to signature list](#)

happy to sign

216 Shelia Gray

[Back to signature list](#)

They need to take some time and do things right. This is ignorant of all the issues.

210 Brett Busang

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Along with a bus route that appears to do very little to accommodate under-served populations, the Reedy Creek restoration project is short-sighted, claustrophobically inbred, and community-averse. And while its own literature minimizes its destructive capacity, that literature has been conclusively debunked. Stop it now and start counting all of our blessings.

208 Gail Campton

[Back to signature list](#)

Leave trees alone

201 Sally Kannemeyer

[Back to signature list](#)

DO NOT put this heedless Reedy Creek stream restoration plan in motion. It is ill-conceived at best. Perhaps greedy and financially suspect at worst. It's mind-blowing that the City Public Works dept. is considering bulldozing acres of park woodland, and cutting down 424 trees, destroying a treasured habitat in the middle of our wonderful neighborhood. Stop this from going forward NOW.
yours, Sally & Derek Kannemeyer

198 Cristy O'Keefe

[Back to signature list](#)

Let's make a better plan!

195 Katherine Olson

[Back to signature list](#)

It seems the city is going into this project poorly informed. Please consider the points the Reedy Creek Coalition has outlined here and put the brakes on implementing this plan.

192 Jesse Senechal

[Back to signature list](#)

I oppose this plan. The city needs to put more thought into their restoration work. Cutting down tracks of native trees is counter productive.

191 Jennifer Vaughan

[Back to signature list](#)

It is unacceptable to spend this money, our hard earned tax dollars, so irresponsibly.

188 Jane Bowe

[Back to signature list](#)

Please don't cut these trees down. Find another way to fix problems. Leave these beautiful trees and forest alone.

187 Johannes Van niekerk

[Back to signature list](#)

I oppose the reedy creek restoration project as described.

185 Denise Payne

[Back to signature list](#)

We are not interested in your plan of restoration that would destroy any tree especially mature trees. They are vital to the habitat, sustainability and beauty of reedy creek and it surrounding park.

176 A Wright

[Back to signature list](#)

My educational background is in stream ecology, and I have been interested in Reedy Creek and the restoration projects that have already been done on its headwater area for many years.

This plan is ill conceived and short sighted. More restoration UPSTREAM is what is needed before damaging a lower intact section of forest that sits below a concrete culvert . Please reconsider and divert the money and efforts to upstream restoration below the created wetland off Midlothian Turnpike.

175 Gary Waynick

[Back to signature list](#)

I am opposed to the use of my tax dollars to execute the poorly developed Reedy Creek plan that will destroy 400 trees in the city.

172 Kevin Gallagher

[Back to signature list](#)

Treat the illness not the symptoms! Restoration of reedy creek must begin at the headwaters and work its way down stream.

171 Disna Vincelli

[Back to signature list](#)

Please step back and rethink this. Save the trees!

170 Judith Harris

[Back to signature list](#)

I live across the street from a creek that is part of Powwhite Park -- a beautiful natural area. It is important to keep our natural areas just that.

165 M Regelson

[Back to signature list](#)

Trees are the Earth's lungs. We need every tree now more than ever!

155 Esrther Regelson

[Back to signature list](#)

I am from Richmond and can't stand to see this happen. Once these trees are gone it will never come back the way it was.

152 Suzanne Steele

[Back to signature list](#)

Do not proceed.

151 Kaitlin Westbrook

[Back to signature list](#)

The Lorax would not approve.

148 Lynn Anderson

[Back to signature list](#)

Once again the City is not doing their due diligence when spending funds. A haphazard idea that doesn't have the research to back it is being pushed as a way to spend \$1.3. The City has demonstrated little to no concern or awareness of this community. Destroying the flora & fauna in this area will have an irreparable impact on the environment. Before this should be considered the drainage must be fixed. Right now the garbage, small carcasses

etc., flow into the creek during storms. Cutting back what has naturally developed to reduce this pollution will be destroyed leaving the creek vulnerable. I suspect the members of City Council & most City employees do more research & planning when taking care of their lawns & gardens. Do not approve this project without seeing the research, data & looking at area's that truly need this project. Please don't allow the Mayors & City Councils legacy to be one of poor planning; lack of accountability and lack of integrity.

145 Peter Mollica

[Back to signature list](#)

please keep me in the loop

144 Richard Bland

[Back to signature list](#)

violence toward neighborhood wood and streams impacts the community, stripping accountability on a level of legality is dehumanized.

140 Greta Bollinger

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The Reedy Creek Coalition has done their homework; please respect their findings, and please stop forging ahead with expensive discretionary projects like this when basic city services still aren't at an acceptable level.

136 Beth Glasser

[Back to signature list](#)

Please save the trees. They are important for the environment. They are living things

134 Laura Posthumus

[Back to signature list](#)

Another expensive and ill advised plan.

122 Michael Spanel

[Back to signature list](#)

Dear City and Park Officials, this this through. You are not only putting the area around Reedy Creek in a danger by destroying these trees, but also not proper any significant benefit by implementing this plan. I am a resident of the Forest Hill Park area and will vote against my city council representative if she allows this poorly conceived plan to go through. Stop. Think. Please.

120 Christopher Catanzaro

[Back to signature list](#)

As a scientist, I am shocked and dismayed by this proposal. Not only is it a waste of public money, it would do more harm than good. It would merely enable the city to check some boxes with regard to the Chesapeake TMDL project. My goal is to move from the city due to it's financial mismanagement. It's tragic.

119 Suzette Lyon

[Back to signature list](#)

This is a band-aid approach. Storm water runoff needs to be reduced since that is the source of the problem. We all need to do our part, but city properties (parks, schools, etc) should provide good examples of how to improve water quality.

116 Karen Kincaid Wittich

[Back to signature list](#)

Leave the mature trees!!!!!!!

115 James Shelton

[Back to signature list](#)

Restore the concrete channel with the money. And add a rain garden at the Rock church.

113 Arthur Kay

[Back to signature list](#)

The reedy creek coalition has been monitoring this creek for 7 years, and it would be advisable that if the city is planning on spending our tax dollars to do a BMP, they actually ask for the input of the people who care--NOT unaccountable people at the DEQ or Timmons group.

112 Jill Krohn

[Back to signature list](#)

No to reedy creek project proposed project

110 Robert Argabright

[Back to signature list](#)

The citizen in the Albro Creek watershed are not pleased with the stream restration project that has not been completed as of this date in this community. This is an example of how not to do a project. We are waiting to have this project completed. This project can not be used as an example of " how to complete a successful stream restration project" A total failure!!!!

109 Ben Colteaux

[Back to signature list](#)

The methods do not support the goals of this plan. Money will be spent and goals not met. Take more time, develop a better plan then move forward.

106 Karen Kardian

[Back to signature list](#)

Opposed

104 William Loy

[Back to signature list](#)

Please don't let this be an instance of act first, think (and pay more) later.

103 Stephanie Foertmeyer

[Back to signature list](#)

Removing the trees will do far more harm than good. Please do not cut them down!!

102 Richard Farley

[Back to signature list](#)

Do not cut down these trees. We need more trees, not fewer. How can the Richmond city government be so horribly incompetent with the amount of taxes it charges it's citizen's?

100 Jimmy McMillan

[Back to signature list](#)

I strongly oppose this project.

99 Barbara Tomlinson

[Back to signature list](#)

The city of Richmond apparently hates trees; the live oak at Broad and Adams, a tree that can live to be 500+ years old, is going for a lifeless statue. Granted, the statue of Maggie Walker deserves a good spot, but not at the proposed location at the expense of an incredible Live Oak, very unusual in this area.

93 Lelia Pendleton

[Back to signature list](#)

My home is immediately beside the affected area. The damage to the entire ecology of the area may be unrecoverable. It will be a profound loss.

91 Matthew Tankersley

[Back to signature list](#)

City of Richmond sucks at landscaping. I'm confident this project will be a fiasco, due partially to corruption and proven by recent failure of the simple task of leaf removal. I can do it better myself, and if you fire the incompetents, you may entertain me with a job offer.

88 Sue Land

[Back to signature list](#)

Please review the watershed plan of 2012. Don't cut down the trees!

83 Jan Uecker

[Back to signature list](#)

I live next to Reedy Creek and I do not support the city's stream restoration plan!

81 Diane Hill

[Back to signature list](#)

This is an ill conceived plan

79 Cynthia Gricus

[Back to signature list](#)

I agree with this petition.

77 GROVER MCDONALD

[Back to signature list](#)

This is a waste of time and city funds. There is no excuse for green-lighting a poorly planned project that destroys or parkland!

76 Rachele Roberts

[Back to signature list](#)

Money poorly spent.

74 Ernest Wilson

[Back to signature list](#)

The city's plan is a disaster.

73 Andrea Steegmayer

[Back to signature list](#)

I am totally and completely against removing any trees period. That is all we do around here-cutting down trees that take more than 50 years to grow and that provide homes to wildlife, clean the air, provide shade, clean the water -the list is endless. NO, NO, NO removal of trees. Remove some streets or parking lots or abandoned buildings, but no trees!!

69 Patricia Wood

[Back to signature list](#)

The Chesapeake Foundation, the Department of Environmental Quality (city), and the Department of Historic Resources have not approved the restoration plan. That suggests the restoration plan, as proposed by the city, is flawed.

68 Lisa Perilli

[Back to signature list](#)

This is a horrifying misuse of taxpayer money and the results will be disastrous. Please use the money for the schools and to fix the potholes instead. Hell, I would even love to have the sidewalks my neighborhood was promised decades

ago...

64 Edward Gable

[Back to signature list](#)

Don't destroy the environment to "save" it.

61 John Moody

[Back to signature list](#)

It sounds like the project needs a little more planning before moving forward

57 Christopher Ashman

[Back to signature list](#)

Reedy Creek Coalition's arguments make sense to me. The area is heavily covered with vegetation. If it's eroding, isn't that because the natural land that is already there is unstable--so a natural creek would erode it naturally. Then altering to stabilize it would not be restoration. And, restoration to what? Am I misunderstanding the meaning of the word "restoration"? Since this is a mostly undeveloped (read: heavily wooded) tract of land, I guess it will be just a handful of homeowners on the north side of the creek that will be affected. It smells a lot like this is a way for the city to claim they are doing something without really doing anything. If we really want to protect the watershed we need to do things that really make a difference--pretending will come back to bite us in the long run.

56 Joshua Rogers

[Back to signature list](#)

Please address the up creek storm water volume before ripping out forest land.

52 Paige Harvey

[Back to signature list](#)

What is it with RVA and tearing down trees? Can't they come up with something better for a change? First, it's the Redskins fiasco, then it's the pretty little tree on Broad St. for another statue and now it's this!!!! Geez - give it a rest!

50 Emily Faye

[Back to signature list](#)

I have read the Reedy Creek Coalition's stance on this and agree the current plan of removing all these trees is a bad one.

48 Sonja Rife

[Back to signature list](#)

As property a owner, still--despite moving, in Woodland Heights just above the park, I oppose this plan.

46 Melissa Burgess

[Back to signature list](#)

This would have a devastating impact on our neighborhood and local wildlife.

45 DANIEL MEGAR

[Back to signature list](#)

Leave the trees alone.

41 Didi Chisholm

[Back to signature list](#)

I oppose the removal of the 400 trees along Reedy Creek for the reasons noted in this petition.

33 Bill McKelway

[Back to signature list](#)

More specifics are needed to justify destroying a park and clear details showing long term benefits

29 Terrie McSween

[Back to signature list](#)

We must be stewarts of the resources already here. Please leave the indigenous trees and abandon this proposed plan

27 Eileen Tangley

[Back to signature list](#)

I am a member of many local environmental groups in the area and have logged in many, many hours of volunteer work in the area. I have seen some of my work undone by city projects. I am amazed at how, when there is money to be spent, the city shows no true understanding of the natural world and the environment. Please, please do not go plowing into an area that is already doing a better job than what is being proposed!

25 Scott Burger

[Back to signature list](#)

Let's do it right.

20 Paula Ogston

[Back to signature list](#)

This plan should not move forward. From my understanding the creek would be better served if a restoration and cleanup was implemented farther upstream. It is also my understanding that the city ultimately chose this section of the creek to target due to the fact that thi section, unlike others, is all city owned and thus involved less red tape. This effort needs to be rethought with more involvement from the reedy creek coalition

19 Andrew Lester

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I believe I speak for the majority of my fellow Woodland Heights and Forest Hill residents when I say this is a seriously half-baked and crappy idea. Due to the fact that the trees marked to be removed have grown naturally, many of us have a hard time imagining how they don't qualify for "native" status and furthermore, many of us appreciate foliage, regardless of the type. Since the "invasion" of these "non-native" trees has not disrupted the surrounding ecosystem, this does not seem to be a legitimate reason to destroy them. This plan sucks, and we don't want it in our neighborhood. Also - we'd probably be a lot happier if you took that \$1.3 million and invested it in our schools or something that citizens would actually approve of and benefit from.

16 TRAVIS FELLOWS

[Back to signature list](#)

A project of this scope and magnitude needs a more carefully researched plan. Once you start down the path you have proposed it will be impossible to turn back--mature trees can' simply be replanted.

14 Charles Fehle

[Back to signature list](#)

Please do not use taxpayer money on this ill conceived project!

12 Glenda Kotchish

[Back to signature list](#)

Please reconsider this project: Reason 1: Lack of Data Collection for Proper Choice of Stream Restoration Site
Reason 2: Proposed Site is "High Risk"
Reason 3: Address Root Causes of Stream Degradation First: Watershed Restoration before Stream Restoration
Reason 4: Proposed Site is "Low Benefit"
Reason 5: Destruction of Tree Canopy and Park Property

3 David Fahey

[Back to signature list](#)

This proposal will do more harm than good to reedy creek

PLEASE STOP THE PROPOSED REEDY CREEK STREAM RESTORATION. PLEASE ADDRESS THE CAUSES OF STORMWATER RUNOFF AND EDUCATE THE PUBLIC BY CREATING AND MAINTAINING RAIN GARDENS AND OTHER MEASURES AT PUBLIC SCHOOLS IN THE WATERSHED THAT WILL DECREASE STORMWATER RUNOFF TO ZERO AT THOSE SITES. THEN WORK TO DECREASE THE IMPERVIOUS SURFACES ON MIDLOTHIAN BLVD BY EDUCATING BUSINESSES AND HELPING THEM ACHIEVE SIMILAR RESULTS AND SUBSTANTIAL REDUCTIONS IN THEIR STORMWATER FEES.

Signatures 898 to 886 of 898

#	Name	Town/City	S/C/P	
898	Jo Lee Kenney	Richmond	VA USA	N
897	m lesh	richmond	N/G	N
896	Jessica Lamberta	Richmond	Virginia	Y
895	Margaret Shea	Richmond	VA	Y
894	Anonymous	Richmond	VA	N
893	Catie Lausten	Richmond	Virginia	N
892	Diane Kennedy	Richmond	Virginia	Y
891	timothy walters	richmond	virginia	N
890	Pat Loughridge	Richmond	VA	Y
889	Daniel Zipperer	Richmond	VA	Y
888	Keithley Pierce	Richmond	Virginia	N
887	sally witt	richmond	virginia	N
886	Magnus Akesson	Richmond	Virginia	N

Appendix B

Timeline

Chesapeake Bay program requires states in the Chesapeake Bay watershed to install Best Management Practices (BMPs) that reduce specific pollutants – nitrogen, phosphorus, and sediment

- The states are given reduction amounts for each pollutant.
- Virginia assigned reduction amounts to each locality.
- Localities may select which BMPs to install to meet the assigned goal. Examples of some BMPs are stream restoration, bioretention/rain gardens, dry ponds, tree planting, permeable pavement, and rain water harvesting.

This is a 15 year plan beginning in 2013. Only 5% of the total must be met during the first 5 years, ending in 2018.

2012

- November City receives a final report titled: “Watershed Plan for Reedy Creek”
- Dec. 17 The Urban Stream Restoration Workgroup issues its final report (http://www.chesapeakebay.net/channel_files/18983/attachment_b1-urban_stream_restoration_panel_final_report_12062012.pdf) Credits for stream restoration were dramatically increased which caused many localities to choose this BMP to meet much of their required reductions in nutrients and sediment.

2014

- Oct City applies to DEQ for a Stormwater Local Assistance Fund (SLAF) grant to pay for 50% of the proposed Reedy Creek stream relocation project.

2015

- April Forest Hill neighbors notice workers in Reedy Creek floodplain and question why. News of the proposed Reedy Creek project is discovered through contacts at DEQ.
- June RCC members attend RVAH2O public meeting to get information....no details available. Plans are about 30% complete.
- July City announces public comment period for its Chesapeake Bay TMDL Action Plan but never communicates directly with RCC. (The plan includes the proposed Reedy Creek stream relocation.)

- Aug RCC learns about public comment period for CB Action Plan after it was closed.
- Sep RCC sends e-mail to DPU expressing concerns about the overall Chesapeake Bay TMDL Action Plan and specific opposition to the proposed Reedy Creek project. (<https://reedycreekcoalition.files.wordpress.com/2015/09/comments-on-dpu-plan-1-1.pdf>) More than 50 people signed on to the comments.
- Oct. Richmond DPU and Timmons (environmental design firm hired to create plans for the proposed Reedy Creek project) provide a presentation at the Forest Hill Neighborhood Association meeting.
- Dec. 1 Richmond DPU meets with the Reedy Creek Coalition. There is clear disagreement on the proposed stream relocation (which is not in the 2012 Reedy Creek Watershed Plan). But there is good agreement on many of the projects suggested in the 2012 Reedy Creek Watershed Plan. DPU confirms at the meeting that a Stream Condition Assessment was never performed as suggested in the 2012 Reedy Creek Watershed Plan.

2016

- Feb. 5 Permit application for the proposed Reedy Creek project is received by the US Army Corps of Engineers. Application is submitted under a streamlined "Nationwide Permit" program that does not require any public participation or evaluation of alternative projects.
- Feb. 8 RCC sends email to Richmond DPU stating continued opposition to the proposed Reedy Creek relocation and also includes an attachment about how the two groups could work together. DPU never responded to the contents of the attachment.
- Feb. 23 City holds public meeting....."It is a done deal."
- April 26 Site visit with Deputy Secretary of Natural Resources
- May 18 Local historians discover evidence of a dwelling and quarry activity in the proposed project area.
Findings filed with Department of Historical Resources (DHR) and the Army Corps of Engineers reopens its review of historical resources.

June RCC and the Forest Hill Historic Designation Committee are listed as “consulting parties” to the reopened historical review.

July 14 RCC presentation and on-site meeting with staff from the Army Corp of Engineers; DPU, Timmons, and DEQ.

August Freedom of Information Act request confirms that no analysis of alternatives was considered prior to submitting the SLAF grant application and that there was no systematic site selection process.

Sept. 14 Historical report submitted to Army Corps of Engineers. This started a 30-day clock ticking that could lead to a permit by mid-October.

Sept. 19 Planning Commission deadlocks (4-4) on a vote to accept grant money from DEQ for the proposed Reedy Creek project.

Sept. 26 City Council continues Ordinance No. 2016-217

Oct. 21 Virginia Department of Historical Resources submits comments asking for more work on the Phase I Cultural Resources Review

Oct. 24 Three members of the Reedy Creek Coalition visit Snakeden Creek stream restoration cited as a “comparable” project to proposed Reedy Creek project

Oct. 28 Reedy Creek Coalition receives documents from Freedom of Information Act request including January 5, 2015 BANCS report

Nov. 9 Reedy Creek Coalition and DPU hold a meeting to discuss the proposed Reedy Creek project

Appendix C

Summary of Major Concerns Regarding the Proposed Reedy Creek Project

- **DEFORESTATION OF OVER 7 ACRES OF MATURE HARDWOODS**

The area of the proposed project represents one of the best stream-side habitats in the City of Richmond. Over 7 acres of hardwood forest will be cleared for the construction of nearly 3,000 feet of new channels, stock piles of earth, access roads and equipment. It will rip the heart out of Crooked Branch Ravine Park, a valuable oasis for residents and wildlife. Replacement plantings will take 50+ years to reach the same maturity that currently exists.

- **PROPOSED PROJECT ADDRESSES SYMPTOMS NOT THE CAUSE**

The proposed stream relocation is an attempt to treat eroded streambanks which are simply **one** symptom of a disease known in the scientific literature as Urban Stream Syndrome. The underlying cause of the problem is the huge volume of polluted runoff from impervious surfaces that picks up pollutants from throughout the watershed.

- **PROPOSED PROJECT IS HIGH RISK**

Good stream restoration projects fail and/or require remediation at a significant cost. The proposed stream relocation project is a much riskier project than the vast majority of stream restoration efforts because it is located immediately below one mile of concrete channel that funnels stormwater from the commercial corridor along Midlothian Turnpike. The Army Corps of Engineers has not granted a permit for a comparable project in Virginia. The Snakden Creek project in Reston, VA that has been cited as “comparable” does **not** have a concrete channel. The Reedy Creek Coalition has email communications from both Army Corps and DEQ staff stating that they have never permitted a similar project. In addition, there are many other important differences between Snakden Creek and the proposed Reedy Creek project: 1) years of data collection, planning, and citizen participation **prior** to design and installation of the projects; restoration of the entire stream channel starting with the most upstream reaches first.

- **LACK OF SOUND PLANNING AND SITE SELECTION**

No stream restoration project is recommended in the 2012 Stormwater Master Plan for the Reedy Creek watershed. The City replied to a recent FOIA request that it had **no** information concerning site selection for the proposed stream relocation. The proposed project was selected based on convenience (no easements required) and not on science. The BANCS assessment performed by the city was done **after** the site was selected and the SLAF grant submitted. And the BANCS assessment indicates that over 80% of the banks in the proposed project area have either low or very low erosion potential. In other words, there are a few patches of eroded banks; but nothing that warrants such a massive and destructive project.

- **LITTLE BENEFIT TO CHESAPEAKE BAY AND DEGRADATION OF REEDY CREEK**

The project will have little benefit to the Chesapeake Bay restoration effort (the stated reason for the project) because water will move through the area too fast to allow efficient removal of pollutants. The city's own report indicates that the project will only remove approximately 50% of the sediment and phosphorous for which it will claim credit. This project undermines the Chesapeake Bay restoration. With regard to Reedy Creek, monitoring data from both DEQ and the Reedy Creek Coalition shows that high levels of fecal bacteria and low levels of dissolved oxygen result from upstream problems. As the water moves through the current forested natural area, dissolved oxygen levels improve and the level of fecal bacteria decreases. The proposed project will further degrade Reedy Creek for decades from the loss of a mature tree canopy - there will be lower levels of life-sustaining oxygen, stress from higher water temperatures, and a dramatic increase in the growth of nuisance algae.

- **ALTERNATIVES NOT EVALUATED**

Many logical alternatives exist across the entire watershed that would benefit Reedy Creek, the Chesapeake Bay, and the residents of Richmond (routine dredging of Forest Hill Lake, green infrastructure at schools, bioretention on several other city-owned properties, cost-share programs for installation of best management practices on private property, tree planting, etc.) Most of these practices are eligible for Chesapeake Bay TMDL credit and also address other city goals such as increased tree canopy, creation of additional green space, citizen involvement, and decreased flooding.

- **MAINTENANCE & REMEDIATION COSTS**

As proposed, there is no plan to fix a catastrophic failure during or after construction and no estimates of routine maintenance costs (watering of trees for two years, removal of invasive plants across 7+ acres, immediate repair of minor erosion damage before it becomes catastrophic). The city has not maintained a much simpler stream channel project on Albro Creek even though there is easy access. The city has not performed routine dredging of Forest Hill Lake despite assurances by city staff 7 years ago. The City already struggles with providing basic services to its citizens and the proposed project will bleed money for years. And, the proposed Reedy Creek project is currently only one of 5 stream restoration projects.

- **LOSS OF HISTORIC RESOURCES**

The proposed project would permanently impact historical resources in a designated historic district. Two new archeological sites have been identified in the area and there is strong evidence for an undiscovered mill site. The Virginia Department of Historical Resources recently urged the Army Corps of Engineers to require further field work because the Phase I Historical Review performed on behalf of the city was done during the summer when thick vegetation made it difficult to detect historical resources. And if the Army Corps ultimately decides there are no "significant" historical resources from a national point of view, does that mean they are not significant to local residents?

- **LACK OF CITIZEN PARTICIPATION**

The proposed Reedy Creek project represents another unfortunate example of lack of sound planning coupled with a lack of transparency and citizen participation. A grant application for this project was submitted in October, 2014. Residents first discovered the existence of the project in April 2015 when staff from Timmons were observed in the floodplain (and sometimes on private property without permission). The first public discussion with local residents occurred at a meeting of the Forest Hill Neighborhood Association in October 2015 (a full year **after** the grant had been submitted). At the only meeting hosted by DPU on February 23, 2016, residents were told the project was a “done deal”.

Appendix D

Communication Sent from the Reedy Creek Coalition to Richmond DPU on February 8, 2016

The document below was sent as an attachment to an email. DPU responded to other requests in the email; but did not respond to the request for further discussion about the contents of the attachment.

Accomplishments/Activities of the Reedy Creek Coalition

The centerpiece of the Reedy Creek Coalition activities over the last seven years has been the collaboration with the Alliance for the Chesapeake Bay to develop and pilot the Watershed Protection Audit program (now known as the RiverWise program). Over 140 assessments have been completed in the Reedy Creek watershed and over \$200,000 in grant money was obtained to install best management practices on private property. Other highlights of the last seven years include:

- Six years of monitoring data at 4 stations distributed through the watershed
- Streamwalks covering over 80% of the mainstem of Reedy Creek and its tributaries
- Workshops and tours on best management practices (rain gardens, Bayscapes, rain barrels, native plants, etc.)
- Planning and volunteer assistance for installation of best-management practices at Patrick Henry School of Science and Arts (rain garden, Bayscape, stabilization of eroded slope, tree planting)
- Participation in educational events at schools (Miles Jones and PHSSA), Sunday in the Park, and other neighborhood venues
- Presentations at state (Virginia Citizens for Water Quality), regional (Middle James Roundtable), and neighborhood meetings
- Riparian tree plantings
- Stream clean-ups
- Storm drain marking
- Invasive plant removal in Forest Hill Park and Crooked Branch ravine

Things Reedy Creek Coalition and DPU agree on

- Reedy Creek has problems due to stormwater.
- A variety of green infrastructure projects (especially at schools) which were listed in the 2012 Reedy Creek Watershed Stormwater Master Plan: George Wythe HS, Westover ES, Miles Jones ES, Covington St. property, Forest Hill Park, etc.
- Reedy Creek watershed could be a **model** for watershed restoration in the city.
- Need for planning.

Things RCC could help provide in collaboration with DPU and other organizations

- Volunteers to help reduce cost of green infrastructure projects and volunteers to water and maintain BMP plantings.
- Education/Outreach on stormwater problems and solutions to homeowners, churches, and commercial properties in the form of workshops, tours, etc. (Although we have focused on Reedy Creek, some of our events attract people from other watersheds. In the future, we could be part of specific efforts to reach people in other parts of the city.)
- Monitoring and stream condition assessment of Reedy Creek. (We could consider assisting with monitoring in other watersheds. Not all of our monitors live in the Reedy Creek

watershed and might be interested in other watersheds. Also, there is the possibility of systematically training college and/or high school students to collect data.

- Training to interested volunteers in other watersheds. (stormwater assessments, monitoring, stream condition assessment, organization of events, etc.)
- Data collection, “ground-truthing” of existing watershed conditions, and other inputs into a comprehensive watershed plan for Reedy Creek.
- Pursuing grant funding for projects in Reedy Creek

Moving Forward

- Let’s work together on projects we all agree on:
 1. Stream condition assessment (Reedy Creek Coalition has already gathered a lot of relevant data and is in the process of summarizing it.)
 2. Comprehensive watershed plan for Reedy Creek
 3. Green infrastructure projects at schools, Forest Hill Park, and other city properties
- Make Reedy Creek a model for watershed restoration (use BMPs for tours and outreach, pilot new programs and approaches for stormwater reduction).
- Pilot a cost-share program for residential properties, churches, and perhaps commercial properties.
- Investigate the possibility of obtaining Chesapeake Bay TMDL credits for Forest Hill Park Lake and initiate a regular dredging program as originally promised by city staff.
- Delay the currently proposed stream restoration project and use the city portion of the money to carry out the green infrastructure projects we agree on during the next 3 years. Perhaps some of the DEQ grant money could be used for green infrastructure projects. If not, the DEQ portion could be matched through grants to non-profit collaborators, volunteer time, cost-share program, and other city departments involved in green infrastructure projects (e.g. Richmond Public Schools, Department of Public Works, Richmond Recreation, Parks, and Community Facilities).
- No proposals for stream restoration in Reedy Creek for the next 8 years during which time a stream condition assessment study and comprehensive watershed plan are completed.
- Create a “balanced” Chesapeake Bay TMDL Action Plan that focuses on watershed restoration.

Appendix E

Maintenance Issues at the Albro Creek Streambank Project

Members of the Reedy Creek Coalition visited the Albro Creek project behind Bellmeade-Oak Grove Elementary School on March 5, 2016. The document below summarizes the results of that visit.

Albro Creek Stream Project

Several members of the Reedy Creek Coalition recently visited a small stream restoration project on Albro Creek, a tributary of Goode Creek on the Southside of Richmond. The stream restoration is located behind the new Bellmeade-Oak Grove Elementary School. In contrast to the proposed Reedy Creek stream restoration, this project is located relatively close to the headwaters of the stream; there is no concrete channel immediately upstream of the project site; and there was very easy access for heavy equipment without the need for lots of tree removal. The project was installed during the summer of 2014. Here are some pictures taken on March 5, 2016.



Eroding soil on left bank; matting torn up; no surviving trees along this damaged section of bank.



Erosion and damaged matting along right bank.



Erosion occurring behind buried root balls embedded in the left bank.



Overview of the upper end of the stream restoration. Note riprap piled along right bank at the first bend in the restored area. This stopgap measure was taken after this segment of the stream restoration failed shortly after installation.



Most of the vegetation along right bank is a “volunteer” blackberry thicket that is starting to be over-run by invasive Japanese honeysuckle.

Summary

The Albro Creek stream restoration site is in poor condition more than 18 months after installation. There are multiple areas of erosion and damaged banks, lots of missing trees, invasive plants moving in, and no sign of maintenance since the riprap was dumped along the right bank.

Whether the problems with this restoration stem from poor design, poor installation, poor maintenance, or a combination of all three is irrelevant. The end result is a stream restoration in need of considerable work that is not being done. Is this what we would have to look forward to along Reedy Creek if the proposed stream restoration occurs? Remember that the Reedy Creek proposal is much larger with that mile of concrete channel just upstream. And since the site is relatively inaccessible, any repair work involving heavy equipment would mean destruction of some new plantings.

Also, the proposed Reedy Creek project is only one of five stream restoration projects the city wants to do in the next couple years. Given its track record, will the City successfully oversee installation and maintenance of all these projects? Will the city quickly repair small-scale damage before it becomes large-scale? Can the city keep invasive plants from overwhelming the new vegetation?

At the February 23 public meeting, the City touted the cost-effectiveness of stream restoration projects. This is true if design and installation are the only costs considered. What if one factors in long-term maintenance? The possibility that one or more projects will fail due to poor site selection as in the case of Reedy Creek?

Appendix F

Examples of emails sent to the US Army Corps of Engineers in early June which resulted in the July 14, 2016 meeting

Dear Colonel Kelly,

I am writing to ask that the Army Corp of Engineers reconsider the request for a public meeting on Permit Application No. 20160173, which is for proposed watershed 'restoration' on the Reedy Creek in Richmond, Virginia.

I am a resident of the Reedy Creek area, but I am also a soil scientist and microbial ecologist at the University of Richmond with over 20 years of experience studying soils and soil biogeochemistry in extreme and disturbed environments. I would like the opportunity to provide my perspective on this project publicly and to hear my fellow citizens' thoughts.

I have reviewed the proposed plan and responses from both the Reedy Creek Coalition and the City of Richmond. To me, the proposed project is an expensive and disruptive way to 'check the box' on EPA mandates to lessen pollution into the Chesapeake Bay. There are just too many negatives associated with the project. Most importantly, I have serious doubts that this project will actually do what it is supposed to in this particular location; the scientific evidence to support the efficacy of these types of restorations is lacking. The intensive disturbance to one of the most pristine areas of the watershed seems much more likely to me to actually exacerbate pollution problems, not mitigate them.

When soils are de-vegetated and disturbed:

- 1) Decomposition is accelerated, leading to increased nitrogen and phosphorus mineralization and runoff.
- 2) Fine soil particles are readily washed away, until the area is stabilized by the establishment and extensive root growth of new plantings. This process will take years and meanwhile, soil erosion will occur, leading to sediment outputs, particularly in this location, into which large volumes of water are funneled during rainfall events.
- 3) Disturbance results in a loss of soil biodiversity – the very organisms that are required to facilitate the water purification processes that this area is expected to perform.
- 4) This area is impacted by many invasive plant species that will experience ecological release in the disturbed area, meaning that they will compete with new plantings for establishment unless intensively managed for many years (an uphill battle). Invasive plants generally support less biodiversity, lessening the ability of the site to support urban wildlife.

In short, I think this project will make things worse and is a waste of public funds. I am happy to speak to my concerns with anyone at any time, but I believe a formal public meeting is necessary. This project is not in the public interest and the impacts will not be minimal.

Thank you,

-Amy M. Treonis, Ph.D.
Department of Biology
University of Richmond
Richmond, VA

Dear Colonel Kelly,

I am writing to you to add my voice to the many in Richmond who oppose the Reedy Creek stream restoration project.

I am a Richmond resident and an urban planner with experience in watershed management and green infrastructure projects. My investigation into the details of this project has left me with no doubt that this project is wasteful and ill-conceived, and will do little or nothing to improve the water quality of Reedy Creek, much less the James River or the Chesapeake Bay. Instead, this project is a result of the City's cursory attempt to meet Bay TMDL requirements.

The Reedy Creek Coalition has sent you ample information regarding the project and it's flaws and I second their arguments.

In addition, I would urge you consider this on a regional level. The TMDL legislation is intended to instigate meaningful improvements to water quality and the health of the Bay. What will happen if project after project meets load requirements according to a model but does nothing to actually improve water quality?

Thank you for your attention to this matter.

Sincerely,

Anne W Darby
2921 Seminary Ave
Richmond VA 23220

Dear Colonel Kelly:

In way of introduction my name is Dr. Arthur Butt, and I am concerned over your staffs denial of a public hearing of Permit Application No. 20160173, a proposed stream “restoration” on Reedy Creek in the City of Richmond. My family and I live near Reedy Creek and frequent the watershed weekly. Like many of my neighbors, we believe the City of Richmond has made misleading comments and is using poor judgement regarding their proposed “restoration” efforts. As proposed, the “restoration” would destroy an established riparian buffer, and not solve a problem that lies further upstream. This is counter to any stream restoration efforts I have witnessed. Therefore, the City’s proposal will neither “...increase the aquatic resource function and services” nor serve the publics interests and is ignoring its own Reedy Creek watershed plan from 2012.

According to Dr. Gezzera (ACE), the Corps has discretionary authority since the proposed “restoration” will cause unnecessary and negative impacts to an established area and contrary to the public interest. In that situation, the project can be reviewed under the Individual Permit process.

I look forward to an opportunity for citizens to be heard on this permit application.

Thank you for your consideration.

Sincerely,
Arthur Butt, Ph.D. – Retired
VADEQ Water Quality Monitoring & Assessment Manager
VADEQ TMDL Senior Scientist
VADEQ Chesapeake Bay Program Senior Scientist

Colonel Kelly,

My name is Bill Shanabruch and I am member of the Reedy Creek Coalition in Richmond, VA. I am also a former Virginia DEQ Regional Biologist with over 12 years of experience assessing the aquatic life use of nontidal streams in the Piedmont and Coastal Plain ecoregions. As you will see from the e-mail chain below, your staff has denied the Reedy Creek Coalition's request for public input into the review of Permit Application No. 20160173, a proposed stream "restoration" on Reedy Creek in the City of Richmond.

Please read the attachment provided which outlines some of the reasons many residents believe that an opportunity for public input should be provided regarding the proposed Reedy Creek project. In particular, the attachment address three major areas of disagreement with the most recent communication from Ms. Gazzera: 1) The proposed project should not be eligible for a NWP27 permit because it will fail to provide "...net increases in aquatic resource functions and services." 2) The proposed project will have more than minimal impacts. 3) The proposed project is not in the public interest.

I look forward to an opportunity for citizens to be heard on this permit application.

Thank you for your consideration.

Bill Shanabruch, Ph.D.
Reedy Creek Coalition Steering Committee

The attachment to this email is below:

1. The proposed project should not be eligible for a NWP27 permit.

There is a strong scientific case that the proposed activity will actually damage aquatic life in Reedy Creek for decades. One major factor is that the proposed project location is immediately downstream of one mile of concrete channel draining a highly impervious commercial area. We have documented low dissolved oxygen concentrations within the proposed project area even though it has the best riparian area in the watershed. The low dissolved oxygen levels may derive from a combination of the following: a) high summer water temperatures created by the long section of concrete channel; b) overnight respiration of the large mats of filamentous algae that form in the concrete channel between scouring rain events; c) sanitary sewer leaks from an aging infrastructure that periodically contaminate the storm water collection system and add high levels of BOD; d) abnormally low base flow due to poor groundwater recharge and excessive evaporation from the concrete channel. Whatever the cause(s), the current project will not address the fundamental problems that have led to low dissolved oxygen levels in the proposed project area.

In fact, the proposed project will exacerbate the current problems by removing the tree canopy in the project area, raising water temperatures, and lowering dissolved oxygen levels even further. As discussed later, the past record of the City of Richmond makes it impossible to believe that the trees planted as part of the project will survive the lack of maintenance associated with other projects.

The Reedy Creek Coalition has collected benthic macroinvertebrate data for Reedy Creek in the lower segment of the proposed project area. This site was chosen because it has the best available riparian area in Reedy Creek, good access to a large floodplain, and decent benthic habitat that scores in the low suboptimal range on rapid bioassessment protocols. Benthic macroinvertebrate scores for this site indicate that Reedy Creek is severely impaired for aquatic life use. The most obvious stressors are the scouring volumes of storm water and the low dissolved oxygen levels. Rather than address the causes of these stressors, the proposed project is only going to make matters worse.

Academic research on a multitude of urban stream restoration projects support our position that aquatic life will not improve as a result of this project. The poor prospects for significant reduction of nutrients and sediment as a result of the proposed project are addressed under the third section below.

2. The proposed project will have more than minimal impacts.

I understand that the Army Corps often deals with very large projects that can cost hundreds of millions or even billions of dollars and impact large tracts of land and many miles of aquatic resources. However, I would urge you to place the impacts of the proposed project in the context of our small urban watershed. Reedy Creek is just under 4.0 miles long and the proposed destruction along the mainstem of Reedy Creek is 1,975 feet. That would be the equivalent of destroying over 32 miles of the best riparian area along the James River. (This calculation only includes the James River starting from the confluence of the Jackson and Cowpasture Rivers.) No one would consider 32 miles minimal impact. And we are not talking about a project that is essential to protect human safety and property. It is the death by a thousand cuts created by projects like the one proposed for Reedy Creek that have made a substantial contribution to the degradation our nation's waters.

The purpose of the proposed project is supposedly to improve the Chesapeake Bay and provide functional uplift to Reedy Creek. In an era where we now understand the importance of riparian areas and have ambitious goals to increase riparian forest, the proposed project involves unacceptable impacts. Destruction of a very significant segment of high quality riparian area for a completely unnecessary project is indefensible.

3. The proposed project is not in the public interest.

There are a multitude of factors that led local residents to oppose the proposed stream restoration. Any one of the concerns is reason to question the project. Together, they make an unambiguous case for killing the proposed project. Here are some of the major factors:

- a. Is it in the public interest for a local government to do a stream "restoration" without ever performing a stream condition assessment to determine the best locations for stream restoration? This lack of scientific underpinning for the proposed project flies in the face of guidance in stream restoration manuals.
- b. Is it in the public interest for a local government to choose a stream restoration site based on convenience rather than science? (City of Richmond staff have stated at public meetings that the site was chosen because the city owns the property and does not have to get easements.) There are stream segments upstream of the concrete channel and much closer to the

headwaters of Reedy Creek that have more highly eroded banks, much worse riparian areas, and less favorable habitat for aquatic life.

- c. Is it in the public interest to choose a site for stream restoration that is clearly a “higher risk” site than potential sites upstream of the concrete channel or in the headwaters of other Richmond streams? In light of the fact that there is a small but significant failure rate for stream restoration projects, it makes no sense to deliberately choose a site that will have a higher probability of failure than others.
- d. Is it in the public interest to destroy a high quality riparian area – a resource that is quite rare in the City of Richmond – for a project that is unnecessarily high risk and arguably without any water quality benefit? In addition, the disturbance will include an access road through the middle of a largely intact parcel of forest. The proposed project would fragment one of the few remaining forested parcels in the City of Richmond. This will cause a large increase in already abundant “edge” habitat and eliminate forest habitat that supports our rarest wildlife species.
- e. Is it in the public interest for the City of Richmond to completely ignore the guidance of the Chesapeake Bay Program Expert Panel on Urban Stream Restoration with regard to addressing the causes of stream degradation? Some relevant quotes from the Expert Panel that have been ignored include: i) “Second, the research reinforces the notion that stream restoration should not be a stand-alone strategy for watersheds, and that coupling restoration projects with upland retrofits and other practices can help manage the multiple stressors that impact urban streams (Palmer et al., 2007).” ii) “It is important to note that watersheds can only be comprehensively restored by installing practices in upland areas, the stream corridor, and in appropriate settings, within the stream itself.” iii) “In general, the effect of stream restoration on stream quality can be amplified when effective upstream BMPs are implemented in the catchment to reduce runoff and storm water pollutants and improve low flow hydrology.” iv) “Stream restoration projects that reduce bank erosion and create in-stream habitat features are a useful strategy as part of a comprehensive watershed approach to reduce sediment and nutrient export from urban and non-urban watersheds.” (<http://chesapeakestormwater.net/wp-content/uploads/downloads/2012/10/Final-CBP-Approved-Expert-Panel-Report-on-Stormwater-Performance-Standards-SHORT1.pdf>) In this vein, it is important to note that the City of Richmond has a storm water master plan from 2012 that does not include any stream restoration projects; but does include the suggestions of a stream condition assessment study as well as a variety of projects on city-owned property that would reduce storm water volume and pollutant loading. The city has made no commitment to following its own plan.
- f. Is it in the public interest to spend \$1.3 million dollars on a gamble that is very unlikely to provide the reductions in nutrients and sediment that the City of Richmond will potentially receive credit for? The preceding statement is based on the following observations: 1) the interim default rate for credit due to urban stream restoration is based on a very thin data set because so few stream restorations have been intensively monitored to quantify sediment and nutrient reduction; 2) the stream restoration projects used for setting the TMDL credit rate were “good” projects based on proper site selection; 3) data from different projects produced a rather wide range of nutrient and sediment reductions; 4) the specific context of the proposed project on Reedy Creek (lower third of the stream, 40% impervious surface, and

immediately below one mile of concrete channel) is very dissimilar to the projects used to set the default rates; and 5) the net reductions compared to the current situation will be over-estimated because they fail to take into account the current access to a large floodplain along the north bank of Reedy Creek. All of these facts lead to the logical conclusion that the proposed project on Reedy Creek will not provide the benefits assumed by the City of Richmond. This project is an exercise in “bean counting for the Bay” that undermines the entire Chesapeake Bay restoration effort. The safest and most cost-effective action that could be undertaken to improve the Chesapeake Bay is to dredge the forebay in Forest Hill Lake which collects nutrients and sediment from nearly the entire watershed. Residents were assured by City of Richmond officials after the entire lake was dredged over 7 years ago that the forebay would be dredged routinely. It has never been dredged.

- g. Is it in the public interest to allow a high stakes stream restoration project when the responsible party has a record of neglecting previous stream restoration projects? The Albro Creek stream restoration project installed in 2014 is the most recent example. This was a small, simple stream restoration project in which there was easy access for heavy equipment from both the sides of the stream. Shortly after installation, a rain event blew out the right bank at the first bend. Subsequently, the city dumped some riprap to stabilize the failing bank and nothing else. Most of the new trees were neglected and died. No attempt has been made to remove the invasive species that are moving in. Sediment behind the root balls along the left bank is being eroded away and there are multiple areas of exposed soil and damaged matting. Based on prior action/inaction, it is impossible to believe that the proposed project on Reedy Creek will be properly maintained. This is especially true due to the size, complexity, and inaccessibility of the proposed project. Even if the proposed project does not blow out, it will bleed money for a very long time and/or fail slowly due to neglect.

In conclusion, there is ample scientific evidence that the proposed project will not deliver improvements to Reedy Creek and is not in the best interest of residents of the watershed, the City of Richmond, the Commonwealth of Virginia, or the Chesapeake Bay watershed. Please consider the context of this project within the Reedy Creek watershed and within the context of the Chesapeake Bay restoration that has motivated this bad proposal. If this project is allowed to proceed it will haunt everyone from the U. S Army Corps of Engineers to the Chesapeake Bay Program to Virginia DEQ to the City of Richmond – the government players who are not heeding an informed public.

Appendix G

Comments from Archeologist suggesting that a Phase II Historical Review should be performed

Memorandum

To: Carolyn Paulette, Forest Hill Historic Designation Committee
From: L. Daniel Mouer, PhD

Ref: Comments on Dutton and Associates Cultural Resources Report on Reedy Creek Project, Richmond, Va

I found the report by Dutton and Associates on their Phase I cultural resources survey of the proposed project area to be thorough and of excellent quality. I am especially pleased that they took our concerns and findings seriously and, especially in the case of Dick Helm's research, they incorporated them into their background and context discussions.

I agree that archaeological site 44CF0802, the early 20th-century dwelling site, and site 44CF0808, a sand and gravel pit, are probably not eligible for listing in the NRHP for the reasons stated in the report. Neither is likely to provide critical new archaeological data. They are common site types for their period and at least the dwelling site has been substantially disturbed.

I am less convinced that there is not potential significance for the other two known sites: the granite quarry operation (44CF0803) and the "canal," or channelized portion of Reedy Creek within the potentially affected area of this project (44CF0807). I will discuss my thoughts concerning these resources individually.

44CF0803

The site designation for the granite quarrying activity is specific to a particular feature that lies within the boundaries of the Forest Hill Historic District. There is no doubt that it is a granite quarry, and from evidence at and adjacent to the site (and various points along the stream bed in the project area) different types of quarrying technology (feather-and-wedge technique as well as drill holes for dynamite blasting) were used indicating that quarrying had extended over a substantial period of time. Dutton and Associates concluded: *"At the conclusion of the Phase I, documentation providing actual dates of construction and use, principal mining engineers and firms, means of conveyance, and support features associated with Site 44CF0803 and Site 44CF0808 was not found."* Further they determined that the site is not eligible *because it lacks "individual distinction," does not "represent a good example of stone quarrying or extraction methods," or "possess limited potential to provide new information on stone quarrying and sand and gravel mining in general."*

I agree with the authors of the report that documentation of the chronology, ownership and/or

broader potential historic context was not found. However, the site is *potentially* associated with historic persons and activities that are quite significant in the context of the Historic District community. I believe that since the Phase I report has not turned up new evidence specific to the quarrying activities at this site, additional research at the Phase II level, is indicated.

While the primary period of significance for the Forest Hill Historic District is the period of development of the “streetcar suburb” community in the early 20th century, the NRHP nomination clearly singles out granite mining as the central feature of the Historic District’s history through the late 19th century. I have attached the text from the NRHP nomination dealing with this significance as Appendix A. There is plenty of evidence of granite quarrying all along lower Reedy Creek, so this particular site should not be evaluated in a vacuum without reference to the broader significance of the historic property owners, their potential involvements in this activity, and the importance to the District of granite quarrying in general. Although the majority of significance of the District is attached to early 20th-century architecture and landscape, it is certainly reasonable to consider that the 18th- and 19th-century industrial activities (granite quarrying, the railroad, milling, and hydrological engineering, for instance) are also significant, and such intact resources should, perhaps, be considered as additional contributing elements.

440807, Reedy Creek “Canal”

The authors of the report recommend that this site not be considered eligible for much the same reasons as the for 440803. They wrote: *“At the conclusion of the Phase I, documentation providing specific associations with a builder, actual dates of construction, use, and extent of the canal were not found. While assumptions can be made regarding the canal’s potential associations and use, without specific primary source documentation corroborating such assumptions, it is D+A’s recommendation that the Reedy Creek canal (44CF0807) is not considered potentially eligible for individual listing in the NRHP.”*

It is true that the report provided no concrete evidence concerning the who, why, and when questions concerning the channelization of the creek. Documentation by Richard Helm and others has provided evidence suggesting *possible* answers to these riddles in the applications for building one or more mills along the creek by two generations of the Markhams. Equally interesting was the Marham’s acquisition of that one parcel on the south side of Reedy Creek near the terminus of the “canal.” The authors reported that there were substantial portions of the project area are in forest with “dense underbrush” which obscures visibility. I trust the judgement of the archaeologists involved in this report, but I cannot help but be curious myself about what might be revealed by a survey—especially in the straight apparently channelized portion of Reedy Creek—in the winter time when visibility and access would be much improved. It is, of course, quite possible that even if remnants of a dam, a mill site, or clear evidence of “canal” construction were to be located, the site may still be ineligible for listing in the NRHP.

Conclusion

I am not being critical of the work done by Dutton and Associates. It was of high professional caliber, and much better than many I have reviewed. I am, however, a resident of a nearby neighborhood and a person who has devoted much of his life to understanding, studying, and preserving the historic resources of Central Virginia. I simply hope that we who are responsible for finding and evaluating cultural resources before they are destroyed by “improvements” are sure to

do our due diligence and err on the side of caution.

Many legitimate historical and archaeological questions raised by the Forest Hill Historic Designation Committee and the Reedy Creek Coalition remain unanswered, but that is what Phase II studies are designed to resolve. I would encourage VDHR to recommend additional documentary research and at least a minimal additional field study to be conducted this winter to answer some of these outstanding questions.

Appendix A (From the Historic Context section of the NRHP nomination)

Late-Nineteenth-Century Development

Following the Civil War, surveyor James La Prade completed a detailed survey of the land mass south and west of the James River. The 1888 La Prade Map of Chesterfield County, Virginia depicted the area of Manchester as being south and west of the City of Richmond.

On La Prade's map, Manchester is depicted as a grid of mostly regular blocks and streets. The eastern area of Woodland Heights is also shown with blocks and streets. The area west of West 34 Street, including the land between Reedy and Powhite Creeks, is occupied by four large plantations, labeled "The Grove"; "Rhodes"; "Archers"; and "Taylor." The Archer, Taylor and Rhodes properties encompassed much of the land that would become the Forest Hill Historic District.

Granite was quarried in Forest Hill from the 1860s until 1914. In the nineteenth century, four quarries were located in Forest Hill: Netherwood, IC Smith, Boscobel and Benson's. Two former quarry sites (not counted as resources in the historic district), marked by enormous craters, are located in the residential area of Forest Hill. The larger quarry site, once 11.81 acres, is situated near the north end of West 42 Street.

This quarry was variously called the Mount Robin Quarry Tract, the Netherwood & Barry Quarry, and finally the James Netherwood Quarry. The crater from the 2-acre I.C. Smith quarry is located at the west end of Smithdeal Avenue where it intersects West 44 Street.

Two other quarries, illustrated in the Beers Atlas, c. 1876, were located in Forest Hill Park. One of these quarries, sometimes called Boscobel Quarry, was situated on the west side of Reedy Creek, near the southwest edge of Forest Hill Lake. The second quarry, situated in the southeast corner of the park, was called Benson's. Granite was extracted by channeling into the rock, drilling evenly spaced holes at right angles and using wedges to break the stone into blocks.

Evidence of the channeling method is visible in the surviving ledges in Forest Hill at the north end of Hillcrest Road. The granite was transported from the Forest Hill quarries by railroad to the wharf in Manchester where it was cut into standardized blocks. Then the stones were loaded on barges and schooners for shipment. Granite quarrying grew into one of the most important industries on the south side of the James River.

Granite from the Netherwood site was used in many notable Richmond landmarks including the Dooley Mansion (Maymont); the Lee Monument; the John Marshall Hotel; Broad Street Station; the basement of Old City Hall; the Soldiers and Sailors Monument on Libby Hill, and the YMCA Building.

Granite from the Netherwood Quarry was also used to construct the State, War and Navy Building in Washington, DC, which at the time of construction was the largest building under a single roof in the world. In the 1880s, large quantities of granite blocks from the quarries in Forest Hill were shipped to Philadelphia, Baltimore, Cincinnati and Cleveland for paving the streets.

Appendix H

**Comments from the Virginia Department of Historical Resources requesting
revisions to the the Phase I Cultural Resources Review**



COMMONWEALTH of VIRGINIA

Department of Historic Resources

Molly Joseph Ward
Secretary of Natural Resources

2801 Kensington Avenue, Richmond, Virginia 23221

Julie V. Langan
Director

Tel: (804) 367-2323
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www.dhr.virginia.gov

October 21, 2016

Ms. Silvia Gazzera
U.S. Army Corps of Engineers
Richmond Field Office
9100 Arboretum Parkway, Suite 235
Richmond, Virginia 23236

RE: *Phase I Cultural Resource Survey of the ±3.0-Hectare (7.6-Acre) Reedy Creek Stream Restoration Area, City of Richmond, Virginia*
DHR File No. 2016-3140

Dear Ms. Gazzera:

The Department of Historic Resources (DHR) has received for our review and comment copies of the report referenced above prepared by Dutton + Associates, LLC in August 2016. We have also received comments from the Reedy Creek Coalition and the Forest Hill Historic Designation Committee. Our comments are provided as assistance to the U.S. Army Corps of Engineers in meeting its responsibilities under Section 106 of the National Historic Preservation Act.

The survey resulted in the identification of two new archaeological sites (44CF0807 and 44CF0808); two previously recorded sites (44CF0802 and 44CF0803) were revisited during the investigation. The report recommends and DHR concurs that Site **44CF0802**, an early twentieth-century domestic site, and **44CF0808**, a sand and gravel pit, are not eligible for listing in the National Register of Historic Places (NRHP). At this time, DHR is unable to concur with the consultant's recommendations regarding sites 44CF0803 and 44CF0807 without additional information.

The consultant recommends that Site 44CF0803, the remains of a granite quarry, is not eligible for NRHP listing because it lacks individual distinction, does not represent a good example of stone quarrying, and has limited information potential; however, according to the report, "there was no readily visible evidence of the landscape feature itself at the time of the survey due to heavy vegetation" (page 7-10). It is unclear how the consultant reached their conclusion without a thorough examination of the site. The extent of the quarry is also unclear. Figure 7-27 depicts Site 44CF0803 as quite small (approximately 75 feet in diameter) and contained entirely within the area of potential effects (APE). As recorded in DHR's Virginia Cultural Resource Information System, Site 44CF0803 is considerably larger. DHR requests

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that the consultant revise Figure 7-27, as appropriate, and provide additional support for their eligibility recommendation by assessing the integrity of the quarry and determining whether the portion of the Site 44CF0803 within the APE contributes to the potential NRHP eligibility of the site. It is DHR's opinion that the quarry does not contribute to the Forest Hill Historic District, and Site 44CF0803 should be evaluated individually within the context of other known granite quarries in the area.

Although inconclusive, documentary evidence suggests the possibility that Site 44CF0807, a channelized stretch of Reedy Creek or possibly a canal, is associated with a historic mill. No remains of a structure outside the possible canal were identified during the survey; however, only two judgmental shovel tests were excavated in the immediate vicinity of Site 44CF0807. Given the lack of surface visibility, it is DHR's opinion that additional subsurface testing is warranted along the channelized stretch of Reedy Creek. Additional surface examinations of the ground surface during a period of reduced vegetation may also be effective in identifying structural remains should they be present within the limits of disturbance.

With regard to the prehistoric artifacts reported by the Reedy Creek Coalition, DHR agrees with the consultant's assessment that the APE is unlikely to contain prehistoric settlements or the remains of other substantive Native American activities. Any artifacts found within the tributary known locally as Crooked Branch would likely be out of context, and would likely not offer important information about prehistory. It is DHR's opinion that no additional investigations along the tributary of Reedy Creek are warranted.

DHR requests that the consultant address the above comments by providing two bound, archival hardcopies and a digital copy of a revised report for our review and comment.

Thank you for the opportunity to review the report. If you have any questions concerning these comments, or if we may provide any further assistance, please do not hesitate to contact me at gregory.labudde@dhr.virginia.gov.

Sincerely,



Greg LaBudde, Archaeologist
Review and Compliance Division

Appendix I

Responses to DPU presentation at the Planning Commission meeting on September 19, 2016

The Reedy Creek Coalition would like to respond to four specific items presented by DPU staff during the Planning Commission meeting on September 19, 2016.

1. Compliance Issues with the Chesapeake Bay TMDL if the proposed Reedy Creek project is not done.

At the Planning Commission meeting on September 19, 2016, it was stated that the City of Richmond could be subject to heavy fines at the end of the current permit period in 2018 if the Reedy Creek project was not done. We have examined the numbers in the City of Richmond Chesapeake Bay TMDL Action Plan and have reached a different conclusion. Using the numbers in Table ES-5 (page xii) and Table ES-4 (page ix) leads to the values in the following table. The second column summarizes the nutrient and sediment reduction provided by the four stream restoration projects without the proposed Reedy Creek project. The third column summarizes the reductions required by 2018 to meet the compliance requirement of the Chesapeake Bay TMDL. In all cases, the four remaining stream restoration projects exceed the 2018 requirements.

Pollutant	Reductions without Reedy Creek project (pounds/year)	Reductions required by Chesapeake Bay TMDL by 2018 (pounds/year)
Total Nitrogen	806	618
Total Phosphorous	731	136
Sediment	482,504	59,260

It is fortunate that the City of Richmond took an aggressive approach in its TMDL Action Plan by surpassing the minimal requirements. That now provides flexibility to evaluate alternatives that will reduce stormwater volume and improve water quality in Reedy Creek and other streams.

2. Magnolia Green stream restoration project

Richmond DPU staff used the Magnolia Green stream restoration project in Chesterfield County as an example of what would take place in Reedy Creek. We have examined aerial photography of the Magnolia Green area and conclude that it provides a very poor comparison to Reedy Creek for the following reasons:

- a. The watershed draining to the project area is very small compared to the Reedy Creek project. The Magnolia Green project occurred in the very headwaters of the stream.

- b. There was a low level of impervious surface at the time of construction when stream restoration projects are most vulnerable. Magnolia Green is a golf course/residential development in which many houses had not been constructed at the time of the stream project.
- c. There is no concrete channel in the Magnolia Green watershed.
- d. Although there may be plans for commercial development, there was little to no commercial development at the time of installation of the stream restoration project.
- e. Development that does occur on the Magnolia Green property is subject to modern stormwater regulations whereas most of the development along Midlothian Turnpike occurred long before effective stormwater regulations took effect.
- f. Due to removal of a pre-existing forest to make way for development, there was easy access for heavy equipment without having to build a road through park property.

3. Quotation from Stella Koch concerning stream restoration projects in Reston, VA

Stella Koch was quoted to provide the impression that community members sometimes complain about tree removal associated with stream restoration projects; but are then happy with the outcome. We do not doubt that was the case in Reston. However, the proposed Reedy Creek project bears little resemblance to the Reston stream restoration projects. The latter were based on the kind of comprehensive planning and science-based site selection that the Reedy Creek Coalition is advocating. Most importantly, a long-term phased approach was used in which headwater segments were restored first (<http://reston.wetlandstudies.info/>). As presented elsewhere in this packet, the concerns of the Reedy Creek Coalition were not limited to the issue of tree removal.

4. The Proposed Reedy Creek Project Received the Highest Score among SLAF Grant Applications in the 2015 Fiscal Year

There are two extreme ways of looking at the high score received by the Reedy Creek grant application to the Stormwater Local Assistance Fund (SLAF):

- 1) The project is very good OR
- 2) The SLAF grant program is seriously flawed.

Of course, the reality probably lies somewhere in between.

After looking at the grant application requirements and the evaluation guidelines, the Reedy Creek Coalition concluded that the SLAF grant program does have some serious shortcomings. We expressed our concerns to our state legislators. Senator Sturtevant and Delegate Carr responded by sending a joint letter to DEQ about making improvements to the SLAF program. (See next page.)

The efforts of our state legislators opened the door for the Reedy Creek Coalition to offer comments to DEQ regarding the SLAF program. Suggestions for strengthening the SLAF grant program were

submitted by the Reedy Creek Coalition in August and are provided below. DEQ recently submitted draft revisions to the State Water Control Board and the Reedy Creek Coalition will offer further comments and continue to follow this process. We do not want any other community in Virginia to have to wage a similar struggle to protect our resources.

SENATE OF VIRGINIA

GLEN H. STURTEVANT, JR.
10TH SENATORIAL DISTRICT
ALL OF POWHATAN COUNTY; PART OF
CHESTERFIELD COUNTY; AND PART OF THE
CITY OF RICHMOND
POST OFFICE BOX 2535
MIDLOTHIAN, VIRGINIA 23113



COMMITTEE ASSIGNMENTS:
COMMERCE AND LABOR
COURTS OF JUSTICE
LOCAL GOVERNMENT
PRIVILEGES AND ELECTIONS

June 22, 2016

Mr. David K. Paylor, Director
Virginia Department of Environmental Quality
Post Office Box 1105
Richmond, VA 23218

Re: Improvements to the Stormwater Local Assistance Fund (SLAF)

Dear Director Paylor:

We write in regard to the Stormwater Local Assistance Fund (SLAF) program administered by the Department of Environmental Quality (DEQ). Three cycles of the SLAF program have been completed thus far and the General Assembly has provided \$20 million in funding in Fiscal Year 2017. In light of this, it seems appropriate to take stock of this relatively new program and consider possible measures to increase efficiency and effectiveness of the program in order to ensure that we are being good stewards of public resources and funding projects that are most likely to successfully accomplish the mission of the Fund.

Our attention to this issue has been drawn by concerns related to the proposed Reedy Creek stream restoration project that is opposed by the local watershed organization, some environmental professionals (including former DEQ staff and academic scientists), constituents who live in the watershed, and other interested stakeholders. Setting aside the credible concerns about the specifics of the SLAF-funded Reedy Creek project, our constituents have pointed to some potential areas of weakness in the SLAF program that merit consideration and improvement.

We propose that we begin a dialogue to discuss avenues for improvement in the current proposal scoring system, application requirements, and DEQ's evaluation process. It may also be time to consider that future projects be truly "shovel-ready" prior to submission of a SLAF proposal. The latter requirement would facilitate a more efficient and effective dispersal of funds where warranted, demonstrate the locality's commitment to the project, and provide valuable information for a more robust evaluation of costs, risks, and benefits prior to awarding grants.

Compared to stream restoration, it is our understanding that many other best management practices (e.g. bioretention, wetlands, wet ponds, green streets) have a higher success rate,

more predictable nutrient and sediment removal rates, and less costly maintenance. In addition, these alternative practices reduce the volume of stormwater entering local streams and often address other urban goals such as increased green space, reduced carbon footprint, and enhanced aesthetics.

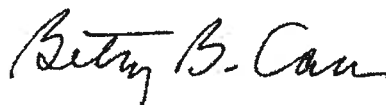
However, our understanding is that stream restoration projects still have a significant failure rate when compared to other projects. Given that a large proportion of SLAF money is awarded for stream restoration projects that are inherently more risky than other projects, it is imperative that stream restoration projects receive appropriate oversight.

We would welcome the opportunity to discuss these matters with you and other stakeholders to make SLAF the most effective stormwater grant program in the region.

Sincerely,

A handwritten signature in black ink, appearing to read "G. Sturtevant, Jr." with a stylized flourish at the end.

Senator Glen H. Sturtevant, Jr.

A handwritten signature in black ink, appearing to read "Betsy B. Carr" in a cursive style.

Delegate Betsy B. Carr

Suggestions/Comments on SLAF program

Suggested Requirements for Grant Applications

1. Every project application shall include a detailed watershed management plan in which the proposed project is prioritized along with other projects within the watershed. The current 10 points provided for a project if it is part of a watershed management plan (out of a total of 550 points) is totally insufficient.

Rationale: The report of the Chesapeake Bay Program Urban Stream Restoration Workgroup states: “Stream restoration projects that reduce bank erosion and create in-stream habitat features are a useful strategy as part of a **comprehensive watershed approach** to reduce sediment and nutrient export from urban and non-urban watersheds.” In fact, any sizable project eligible for SLAF funding should be an integral part of a comprehensive watershed plan to ensure the desired results. If the local government cannot provide convincing evidence the project is needed and fits into a well-conceived plan for the watershed, then it should not get funding. The **context** of projects needs to be an important consideration in funding.

2. All stream restoration projects shall include an Appendix providing the information used in site selection. This would include a stream condition assessment which includes an evaluation of the surrounding riparian areas; a description of how the information was used to prioritize candidate sites; and the reasoning for the choice of the specific site for which funding is requested.

Rationale: All guidance manuals on stream restoration emphasize the importance of site selection and identify a stream condition assessment as the first step in a systematic process. While there may not be scientific consensus on what constitutes a “good” stream restoration project, there is very strong scientific consensus about the importance of site selection and the steps involved. No SLAF funding should go to any stream restoration project that is not underpinned by good science, especially since some projects fail.

3. SLAF shall only fund shovel-ready projects that include detailed plans with all of the necessary permits in place.

Rationale: Detailed plans would allow for a much more robust evaluation of the risks and benefits associated with each project. In addition, it would demonstrate the commitment of local government to the project and result in more timely distribution of funds.

4. Detailed maintenance plans with estimated costs shall be included with every proposal. Maintenance includes immediate repair of storm-related damage, survival of plantings, removal of invasive plants, and removal of man-made debris.

Suggested Changes to Proposal Scoring and Evaluation

1. Proposals shall be reviewed by a minimum of two technical experts (could include an outside expert to add some independence to the process) to make sure all watershed management plans, detailed project plans, etc. are coherent and the proposed project has a

high likelihood of success. An ideal team of evaluators would include a stormwater engineer, stream restoration specialist (especially for stream restoration projects), and an aquatic ecologist/biologist.)

2. Extra points shall be given to projects that directly reduce stormwater volume through infiltration and/or rain water harvesting. This is key because root causes of degradation would be addressed. Stormwater volume reduction ultimately reduces instream erosion downstream from the BMPs and so the credits should go beyond the immediate impacts on nutrient and sediment reductions from installed BMPs. In addition, stormwater reduction via infiltration recharges groundwater and leads to increased base flows and improved aquatic life.
3. Stream restoration does not count as stormwater reduction unless there is a **new** connection to a floodplain or wetland that leads to a substantial reduction in peak flows. This evaluation would rely on reviewer discretion.
4. Extra points shall be given for projects on “highly visible” local government property that reduce stormwater volume and provide educational signage. This might include properties with high pedestrian traffic such as parks, entrances to frequently used buildings like main government offices, libraries, community centers, etc.) Some local governments already take into account the educational value and “multiplier” impact of projects when prioritizing potential BMPs.
5. Extra points shall be given for green infrastructure on school properties provided that an educational plan is in place to use the BMPs to educate students, parents, and the wider community.
5. Evidence of support from watershed groups, neighborhood groups, riparian landowners, and other stakeholders in effected areas shall be taken into account in the proposal scoring system.
6. There shall be a scoring category for level of risk/likelihood of success. This should be at least 10% of total available points. This is especially important for stream restoration projects that have a failure rate higher than most other projects.
7. For local governments that have received prior SLAF funding, the success of previous projects shall be taken into account.

Miscellaneous

1. Since some localities do not have watershed management plans in place, SLAF could provide smaller grants for watershed planning. This could be money very well spent over the next few years as localities gear up for the accelerated implementation schedule.

2. Aggressive follow-up monitoring/tracking of SLAF projects with withdrawal/reduction of TMDL credits when warranted. It is not clear whether some localities understand that if a stream restoration project fails that they will lose credit toward their Chesapeake Bay TMDL requirements.
3. DEQ needs to establish collaborations with local and federal government agencies, academia, local watershed groups, etc. to carefully monitor whether urban stream restorations are delivering the reductions they are being credited for. The current credit for stream restoration is based on a very small set of projects – none of which are located in Virginia.
4. Cost-effectiveness calculations for Total Phosphorous (TP) reduction need to take into account the destruction of existing vegetation (especially riparian vegetation). If one acre of forest is removed, then the loss of TP reduction should be deducted because it will be many decades before water quality benefits and ecosystem function returns.
5. Rather than totally exclude projects that cost more than \$50,000 per pound of TP removed, create a sliding scale for reimbursement. For example, a project with a projected cost of \$60,000 per pound of phosphorous removal might be awarded a grant for 40% of the costs of the project.
6. Increase transparency of the SLAF program by making all grant submissions (with all supporting materials) readily available on the DEQ website.

Appendix J

Conclusions from Visit to Snakeden Creek

Bill McKelway, Amy Treonis, and Bill Shanabruch went up to Reston, VA on October 24, 2016 and met with Mike Rolband, the President of Wetland Studies and Solutions, Inc (WSSI). Mike was incredibly generous with his time and spent over 4 hours with us. Our day included site visits to a stream segment just starting to undergo restoration and to the stream segment on Snakeden Creek that DPU cites as "comparable" to the proposed Reedy Creek project. (The comparable segment on Snakeden Creek will be referred to as **Reach 12** which is the designation WSSI uses for the segment.) More information about the Snakeden Creek project can be obtained at: <http://reston.wetlandstudies.info/>. Among other things, the website includes before and after pictures which show the channels were highly incised and the banks were much more eroded than the banks in the proposed project areas along Reedy Creek and Crooked Branch.

Observations and Discussion

1. There is **no** concrete channel along Snakeden Creek upstream of Reach 12. Mike indicated that there was a miscommunication about this issue. There is a concrete box culvert just upstream of Reach 12 which looked pretty comparable to the new box culvert where German School Road crosses Reedy Creek.
2. The entire upstream length of Snakeden Creek (about 3 miles) underwent stream restoration **prior** to the restoration of Reach 12. That means nearly the entire length of the upstream section of Snakeden Creek has good access to a floodplain which allows for infiltration and slows down the peak flows entering Reach 12. This is a significant difference from the mile of concrete channel immediately upstream of the proposed Reedy Creek project. From looking at Reach 12 and asking Mike specifically how high the water rose during a typical one-year rain event, it seemed clear that Reach 12 is nowhere near as flashy as Reedy Creek. (If necessary, it should be possible to calculate the cross-sectional area of the peak flow during a one-year rain event at Reach 12 and compare it to what happens in Reedy Creek.)
3. The percent of impervious cover is supposedly about the same for the Reach 12 drainage and the proposed Reedy Creek site. The combination of driving around the Snakeden Creek watershed and looking at aerial photography makes this conclusion questionable. (In addition, there is a document from Fairfax County that states the impervious cover for the entire Snakeden Creek watershed is 27%.) One possibility is that WSSI used a different method to calculate impervious cover (IC) for Snakeden Creek than the one used by Timmons to calculate IC for Reedy Creek. We have two volunteers with GIS expertise and we are hoping to resolve this issue by doing calculations of IC for both watersheds using the same GIS layers and methodology.
4. Another relevant issue is that much of the development in the Snakeden Creek watershed occurred later than most of the development in the Reedy Creek watershed. This is relevant because a significant amount of Reston's development occurred after stormwater regulations came into effect in the 1970's. The result is that the "effective" impervious cover in the Snakeden Creek watershed is probably lower than the analogous impervious cover in the Reedy Creek watershed that contributes to stormwater problems. In other words, the

amount of stormwater entering Snakeden Creek per acre of IC is probably less than the comparable number for Reedy Creek.

Although not directly related to risk factors, members of the Reedy Creek Coalition discovered several other interesting facts about the Snakeden Creek restoration project:

1. The project design was true stream restoration and not stream relocation. The strategy used in all stream reaches was to raise the level of the incised stream bed by bringing in rock, gravel, and other substrate materials. This strategy allows reconnection to the original floodplain and greatly reduces the number of trees lost. In addition, it enhances pollutant removal in the hyporheic zone (water located in the spaces between rock/cobble/gravel, etc.). Since the level of the substrate was raised by 4-5 feet in many cases, there is a lot of hyporheic zone volume where microbes can remove nitrogen.
2. WSSI surveyed all trees in a project area that were 4-inches in Diameter at Breast Height (DBH) or larger and tried to save as many as possible. (The tree survey for Reedy Creek only considered trees greater than 6-inch DBH or greater.)
3. WSSI held many, many community meetings prior to starting the design phase.
4. WSSI spent years collecting data prior to starting the design phase.
5. WSSI uses several strategies to minimize the impact of invasive plants such as heavy seeding with grass seed that is used for initial stabilization of the banks. However, WSSI does **not** perform invasive removal as part of maintenance. Although the shrub and tree plantings were doing well in the restored riparian area, there was a lot of Japanese stiltgrass that will smother out smaller perennial plants and prevent establishment of a truly healthy ecosystem.
6. To increase stability at the upper end of stream restoration projects, WSSI often includes a series of step pools to dissipate the energy of incoming flood waters. This is the approach used in Reach 12 where three step pools were used. The Timmons design for Reedy Creek includes one pool.
7. WSSI has been performing benthic macroinvertebrate monitoring to determine if there has been any improvement in aquatic life use. Similar to a long list of other urban stream restoration projects for which similar data has been collected, WSSI has not detected an improvement in Snakeden Creek since the stream restoration projects were installed in 2008 and 2009. There are many possible reasons for the failure of urban stream restoration projects to improve aquatic ecosystems. Among the possibilities are: high salt concentrations from use of road salt, large stormwater volumes that scour out substrate and make much of the substrate unstable, low dissolved oxygen due to low flows during the summer time (result of failure to infiltrate stormwater and recharge the groundwater), toxics such as heavy metals, pesticides, petroleum products, etc., periodic spikes in chlorine due to release of swimming pool water and/or flushing fire hydrants during low flow, high levels of nutrients and/or sediment. The culprits may vary from watershed to watershed and it is probably some combination of these many potential factors that prevent improvements in aquatic life use. The current take-home message is: urban stream restoration alone does not improve aquatic life use.

Appendix K

January 2015 Report from Timmons

The following report was received as the result of a Freedom of Information Act request. This report includes the BANCS analysis which indicates that over 80% of the stream banks in the proposed project area had either low or very low erosion potential. In addition, this report includes calculations showing the reductions in phosphorous and sediment achieved by this project would be less than 50% of the interim default rate. In reality, the proposed project will not deliver the pollution reductions for which the city is trying to get credit.



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January 5, 2015

Shawn MacIntosh
City of Richmond Department of Public Utilities
Technical Services Division
730 E. Broad Street – 6th Floor
Richmond VA 23219

VIA EMAIL: shawn.macintosh@richmond.gov

**Re: Sediment and Nutrient Removal Assessment
Reedy Creek from West 46th Street to Roanoke Street
Richmond, Virginia**

Dear Mr. MacIntosh:

Timmons Group was contracted to perform two tasks for the City of Richmond; the first, an investigation of stream bank erosion to evaluate the pollutant load coming from Reedy Creek and Crooked Branch. The second task was to analyze the applicability of three of the four (Protocols 1-3), as well as the interim rate from the *Recommended Protocols for Defining Pollutant Reductions Achieved by Individual Stream Restoration Projects*¹. These protocols give a pollutant load reduction estimate. The following is a summary of our analysis.

Task 1: Pollutant Load Investigation (BANCS Model Assessment)

To evaluate the pollutant load coming from stream bank erosion it is recommended to use the Bank and Nonpoint Source Consequences of Sediment (BANCS) Model developed by Dr. David L. Rosgen (2001). This model is a part of the EPA's technical tools for watershed assessment of River Stability and Sediment Supply (WARSSS) developed by Dr. Rosgen, for stream restoration practitioners to use in evaluating streams and rivers impaired by excess sediment.

The BANCS model is a tool to evaluate the bank characteristics and flow distribution along stream reaches. The model uses two bank erosion estimation tools: The Bank Erosion Hazard Index (BEHI) and Near-Bank Stress (NBS). These risk ratings are used to produce an annual erosion rate. After multiplying this erosion rate by the stream bank length and the stream bank height, a total erosion rate can be calculated for the entire stream being evaluated.

BEHI - The BEHI is an evaluation tool to measure the susceptibility of a stream bank to erosion for multiple erosional processes. This process-integration approach does not isolate individual processes of erosion. The process integrates multiple variables that relate to a "combined" erosional processes leading to annual erosion rates. Erosion risk is then established for a variety of BEHI variables to obtain an overall BEHI rating.

NBS - Annual streambank erosion rate prediction must include the NBS assessment associated with energy distribution against streambanks. NBS determinations are broken into seven different

¹ Provided as Section 5 in *Recommendations of the Expert Panel to Define Removal Rates for Individual Stream Restoration Projects* prepared by Tom Schueler, Chesapeake Stormwater Network and Bill Stack, Center for Watershed Protection. The Water Quality Goal Implementation Team issued their final approval of this document on May 13, 2013.

methods. The NBS variables used in the prediction methodology indicate potential disproportionate energy distribution in the near-bank region, which can accelerate streambank erosion.

On December 3, 2014, Timmons Group assessed the existing channels by performing a series of field data collection exercises including the BANCS method for each stream bank within the study area.

This assessment summary can be found on the enclosed Worksheet 3-13. Summary form of annual stream bank erosion estimates for various study reaches. Sample reaches were then assigned one of four (4) corresponding erosion rate categories ranging from "Very Low" to "High," as illustrated on the enclosed BANCS Assessment Map.

Task 2: Pollutant Load Reduction Estimate (Sediment and Nutrient Removal Potential)

The applicability of three of the four (Protocols 1-3), as well as the interim rate from the *Recommended Protocols for Defining Pollutant Reductions Achieved by Individual Stream Restoration Projects* were analyzed and the following represents a summary of the analysis.

Protocol 1: Credit for Prevented Sediment during Storm Flow - "This protocol provides an annual mass nutrient and sediment reduction credit for qualifying stream restoration practices that prevent channel or bank erosion that would otherwise be delivered downstream from an actively enlarging or incising urban stream," (Schueler and Stack 2013). Timmons Group followed the three step process to compute a mass reduction credit depicted in the summary table.

Protocol 2: Credit for In-stream and Riparian Nutrient Processing during Base Flow - "This protocol provides an annual mass nitrogen reduction credit for qualifying projects that include design features to promote denitrification during base flow," (Schueler and Stack 2013). To qualify for credit under Protocol 2, the bank height ratio is required to be 1.0 or less in order to promote hyporheic exchange between the stream channel and the floodplain rooting zone. The hyporheic box is calculated as the width of the channel plus five feet on either side of the stream bank, extending to a maximum depth of five feet, excluding areas of bedrock outcropping or confining clay layers. The box extends the length of the restored channel.

Given that the majority of the existing bank height ratios of Reedy Creek ranged from 1.00-1.14 and large portions of the existing stream bed are bedrock controlled, we do not anticipate that additional in-stream and riparian nutrient processing will occur within the hyporheic zone with a proposed hyporheic zone reestablishment.

Protocol 3: Credit for Floodplain Reconnection Volume - "This protocol provides an annual mass sediment and nutrient reduction credit for qualifying projects that reconnect stream channels to their floodplain over a wide range of storm event. A wetland-like treatment is used to compute the load reduction attributable to floodplain deposition, plant uptake, denitrification and other biological and physical processes," (Schueler and Stack 2013).

The intent of Protocol 3 is to provide increased sediment and nutrient credit for restoration projects that include the design of wetlands within the project floodplain that are actively engaged during smaller storm events, specifically those less than the 1.5 year storm event. The result is a reduction in sediment and nutrient concentrations of the stormwater runoff from the contributing watershed by means of hydraulic detention and nutrient processing occurring in the floodplain wetlands. Therefore, the project should result in a minimum watershed to floodplain ratio of one percent to ensure adequate hydraulic detention time for flows in the floodplain. Further, the floodplains should be specifically designed to act as wetlands, and designers are afforded more credit for designs that engage the floodplain during smaller storm events (e.g., 0.25 or 0.5 inches).

Protocol 3 should only be used if the project incorporates a floodplain wetland that is at least 1% of the contributing watershed area. When the constructed wetland area is less than 1%, a reduction in credit is required based on the constructed wetland to watershed acreage. An estimation table is shown below.

Stream	Potential Wetland Area (acres)	Phosphorous Credit (lbs/yr)	Nitrogen Credit (lbs/yr)	Sediment Removal Credit (ton/yr)
Reedy Creek	10	0.6	4	0.1
Crooked Branch	2	0.1	0.7	0.01

Additionally, there are multiple site specific restrictions which have the potential to further reduce the productivity of Protocol 3. These restrictions include the potential for existing wetlands adjacent to the Reedy Creek stream reach that would need to be avoided with a wetland creation design, the need for undesirable impacts to the existing mature forested community to construct these wetlands, and the potential for utility conflicts. Therefore, proposing credits based on Protocol 3 have too many constraints and are not cost-effective.

Interim Rate - "Local watershed planners will often need to compare many different BMP options within their community." While the interim removal rates can only be applied to historic projects or projects that cannot conform to recommend reporting requirements, it is another tool to estimate and compare removal rates for these two streams.

Summary

The pollutant removal estimates computed for Reedy Creek and Crooked Branch have been summarized in a table, which can be found below. The calculated pollutant loads are based on restoring reaches of stream channel ranging from "Low" to "High" erosion rates. Stream banks depicted as having a "Very Low" erosion rate (0.02 tons/yr/ft or less), are assumed to be in stable condition. They will be neither environmentally nor cost beneficial. This cost benefit is based on a total cost of \$40,000 per pound of phosphorus removed.

Reedy Creek Summary Table

Protocol	Phosphorous Credit (lbs/yr)	Nitrogen Credit (lbs/yr)	Sediment Removal Credit (ton/yr)
1	40	87	38
2	N/A	N/A	N/A
3	N/A	N/A	N/A
Interim Rate	79	87	144

Crooked Branch Summary Table

Protocol	Phosphorous Credit (lbs/yr)	Nitrogen Credit (lbs/yr)	Sediment Removal Credit (ton/yr)
1	30	64	28
2	N/A	N/A	N/A
3	N/A	N/A	N/A
Interim Rate	66	72	120

Timmons Group thanks you for the opportunity to work on this project and assess the potential sediment and nutrient reduction credits associated with compliance with the Chesapeake Bay TMDL. We would be happy to meet with you to review our findings and to discuss our assumptions, the guidance documents, and the Protocols in-depth, as related to this and future projects for the City of Richmond. Please contact us at your convenience to discuss the subject further.

Sincerely,

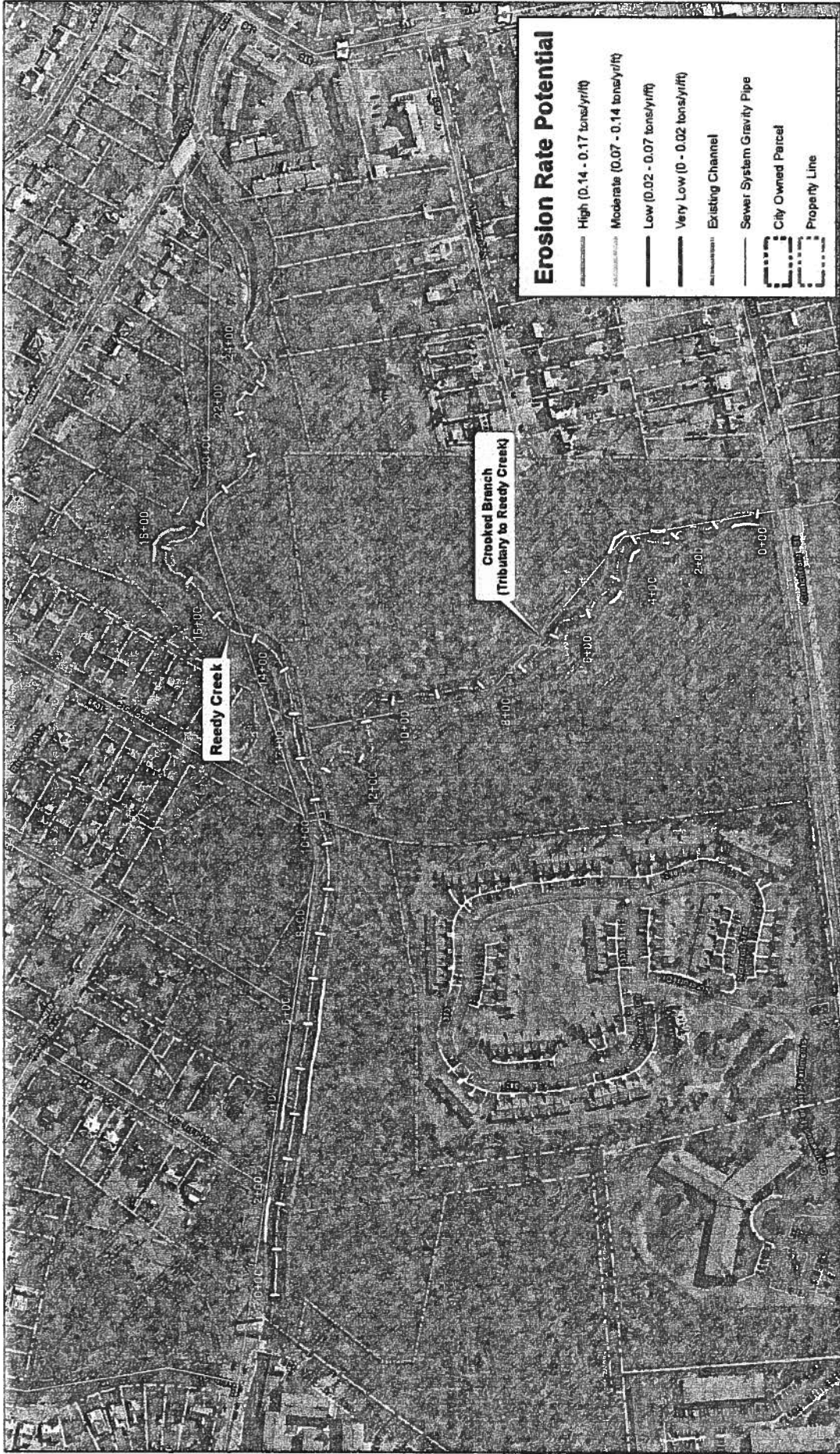
Timmons Group

A handwritten signature in black ink, appearing to read "R. Napier".

Rebecca Napier, PE
Senior Environmental Project Manager

Enclosures:

- Worksheets 3-13. Summary form of annual streambank erosion estimates for various study reaches.
- BANCS Assessment Map



**Reedy Creek
BANCS Assessment Map**



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Worksheet 3-13. Summary form of annual streambank erosion estimates for various study reaches.

Stream: Crooked Branch		Location: Richmond, VA					
Graph Used: Colorado		Assessment Length (ft): 1320			Date: 12/11/2014		
Observers: M. Aust		Valley Type: VIII			Stream Type: F,E		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Station (ft)	BEHI rating (Worksheet 3-11) (adjective)	NBS rating (Worksheet 3-12) (adjective)	Bank erosion rate (Figure 3-9 or 3-10) (ft/yr)	Length of bank (ft)	Study bank height (ft)	Erosion subtotal [(4)×(5)×(6)] (ft ³ /yr)	Erosion Rate (tons/yr/ft) [(7)/27] × 1.3 / (5)}
1. LB 0+00 - 0+70	Moderate	Low	0.153	70.0	10.0	107.10	0.07370
2. LB 0+70 - 1+40	Low	Moderate	0.073	70.0	8.0	40.60	0.02790
3. LB 1+40 - 2+30	Moderate	Low	0.153	90.0	6.0	82.62	0.04420
4. LB 2+30 - 2+53 LB 2+83 - 3+10	Low	Low	0.036	23.0	6.0	4.93	0.01030
5. LB 3+10 - 3+50	High	Moderate	0.380	27.0	6.0	61.56	0.10980
6. LB 3+50 - 3+94	Moderate	High	0.420	40.0	6.0	100.80	0.12130
7. LB 3+94 - 4+18	Moderate	Low	0.153	44.0	6.0	40.39	0.04420
8. LB 4+18 - 4+41 LB 4+41 - 4+76	Low	Low	0.036	24.0	1.0	0.86	0.00170
9. LB 4+76 - 5+10	Moderate	High	0.420	23.0	5.0	48.30	0.10110
10. LB 5+10 - 5+55	Moderate	Low	0.153	35.0	5.0	26.78	0.03680
11. LB 5+55 - 6+30 LB 6+30 - 6+71	Very Low	Low	0.000	34.0	1.0	0.00	0.00000
12. LB 6+71 - 7+26	Low	Low	0.036	45.0	3.0	4.82	0.00520
13. LB 7+26 - 7+33	Low	Very High	0.323	41.0	3.0	39.73	0.04670
14. LB 7+33 - 7+98	Moderate	Very High	0.697	41.0	2.0	57.15	0.06710
15. LB 7+98 - 8+42 LB 8+42 - 8+50	Low	Low	0.036	55.0	1.0	1.96	0.00170
16. LB 8+50 - 9+05	Moderate	High	0.420	7.0	3.0	8.82	0.06070
17. LB 9+05 - 9+50 LB 9+50 - 11+67	Very Low	Low	0.000	65.0	1.0	0.00	0.00000
18. LB 11+67 - 12+24	Low	Moderate	0.073	42.0	2.0	6.09	0.00700
19. LB 12+24 -	Very Low	Moderate	0.000	70.0	1.0	0.00	0.00000
20. LB 12+24 -	Very Low	Low	0.000	45.0	1.0	0.00	0.00000
21. LB 12+24 -	Low	Moderate	0.073	57.0	2.0	8.26	0.00700

Worksheet 3-13. Summary form of annual streambank erosion estimates for various study reaches.

Stream: Crooked Branch		Location: Richmond, VA					
Graph Used: Colorado		Assessment Length (ft): 1320			Date: 12/11/2014		
Observers: M. Aust		Valley Type: VIII			Stream Type: F,E		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Station (ft)	BEHI rating (Worksheet 3-11) (adjective)	NBS rating (Worksheet 3-12) (adjective)	Bank erosion rate (Figure 3-9 or 3-10) (ft/yr)	Length of bank (ft)	Study bank height (ft)	Erosion subtotal [[4]x(5) x (6)] (ft ³ /yr)	Erosion Rate (tons/yr/ft) [[7]/27] x 1.3 / (5)]
22 LB 12+83 - 13+00	Low	High	0.151	17.0	3.0	7.70	0.02180
23 RB 0+00 - 0+54	Moderate	Low	0.153	54.0	7.0	57.83	0.05160
24 RB 1+15 - 2+30	Moderate	Low	0.153	115.0	6.0	105.57	0.04420
25 RB 2+30 - 2+65	Moderate	High	0.420	35.0	6.0	88.20	0.12130
26 RB 2+65 - 2+84	Low	Low	0.036	26.0	2.0	4.86	0.00340
27 RB 3+07 - 3+50	Moderate	High	0.420	43.0	5.0	90.30	0.10110
28 RB 3+50 - 3+94	Moderate	Low	0.153	44.0	5.0	33.66	0.03680
29 RB 3+94 - 4+18	Very Low	Low	0.000	24.0	1.0	0.00	0.00000
30 RB 4+18 - 4+35	Low	Low	0.036	17.0	5.0	3.03	0.00860
31 RB 4+35 - 4+76	Low	Low	0.036	41.0	4.0	5.85	0.00680
32 RB 4+76 - 5+30	Moderate	Moderate	0.253	54.0	4.0	54.65	0.04870
33 RB 5+30 - 5+55	Low	Low	0.036	25.0	3.0	2.68	0.00520
34 RB 5+55 - 6+43	Low	Very High	0.323	88.0	3.0	85.27	0.04670
35 RB 6+43 - 7+08	Low	Low	0.036	139.0	2.0	9.85	0.00340
36 RB 7+08 - 8+10	Low	Low	0.036	112.0	1.0	4.00	0.00170
37 RB 8+10 - 10+08	Very Low	Moderate	0.000	48.0	1.0	0.00	0.00000
38 RB 10+08 - 11+15	Very Low	Low	0.000	107.0	1.0	0.00	0.00000
39 RB 11+15 - 11+84	Low	Moderate	0.073	60.0	2.0	10.01	0.00700
40 RB 12+44 - 12+70	Moderate	High	0.420	26.0	2.0	21.84	0.04040
41 RB 13+00 - 13+20	Low	Moderate	0.073	20.0	3.0	4.35	0.01050
Sum erosion subtotals in Column (7) for each BEHI/NBS combination					Total Erosion (ft ³ /yr)	1158.88	
Convert erosion in ft ³ /yr to yds ³ /yr {divide Total Erosion (ft ³ /yr) by 27}					Total Erosion (yds ³ /yr)	42.92	
Convert erosion in yds ³ /yr to tons/yr {multiply Total Erosion (yds ³ /yr) by 1.3}					Total Erosion (tons/yr)	55.80	

Worksheet 3-13. Summary form of annual streambank erosion estimates for various study reaches.

Stream: Reedy Creek		Location: Richmond, VA					
Graph Used: Colorado		Assessment Length (ft): 2450			Date: 12/3/2014		
Observers: J. Bohdan		Valley Type: VIII			Stream Type: Ce		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Station (ft)	BEHI rating (Worksheet 3-11) (adjective)	NBS rating (Worksheet 3-12) (adjective)	Bank erosion rate (Figure 3-9 or 3-10) (ft/yr)	Length of bank (ft)	Study bank height (ft)	Erosion subtotal $[(4) \times (5) \times (6)]$ (ft ³ /yr)	Erosion Rate (tons/yr/ft) $\{[(7)/27] \times 1.3 / (5)\}$
1. LB 0 to 1+17	Low	Low	0.036	117.0	9.0	37.50	0.01560
2. LB 1+17 to 2+10	Very High	Low	0.250	93.0	6.5	151.12	0.07820
3. LB 2+10 to 3+64	Moderate	Low	0.153	164.0	6.0	150.55	0.04420
4. LB 3+64 to 4+94	High	Low	0.250	130.0	6.0	195.00	0.07220
5. LB 4+94 to 7+00	Low	Low	0.036	206.0	4.0	29.42	0.00690
6. LB 7+00 to 10+00	Low	Moderate	0.073	200.0	4.0	87.00	0.01400
7. LB 10+00 to 11+71	Low	Low	0.036	171.0	2.5	21.37	0.00690
8. LB 11+71 to 12+85	Low	Moderate	0.073	114.0	3.0	24.70	0.01050
9. LB 12+85 to 14+50	Low	Low	0.036	166.0	3.5	20.62	0.00690
10. LB 14+50 to 16+60	Low	Low	0.036	60.0	3.5	7.50	0.00690
11. LB 16+60 to 17+75	Low	High	0.151	115.0	4.0	69.46	0.02910
12. LB 17+75 to 18+70	Moderate	Very High	0.697	95.0	5.0	331.07	0.16780
13. LB 18+70 to 24+50	Low	Low	0.036	510.0	2.0	36.41	0.00340
14. RB 0 to 2+00	Low	Low	0.036	200.0	6.0	42.84	0.01030
15. RB 2+00 to 3+64	Moderate	Low	0.153	164.0	5.5	138.01	0.04050
16. RB 3+64 to 7+00	High	Low	0.250	336.0	6.0	504.00	0.07220
17. RB 7+00 to 10+00	Low	Moderate	0.073	300.0	5.0	109.75	0.01750
18. RB 10+00 to 11+71	Low	Low	0.036	171.0	4.0	24.42	0.00690
19. RB 11+71 to 16+60	Low	Low	0.036	489.0	4.0	69.83	0.00690
20. RB 16+60 to 17+23	Low	High	0.151	63.0	4.0	38.05	0.02910
21. RB 17+23 to 18+40	Low	Moderate	0.073	70.0	3.8	19.03	0.01310
22. RB 18+40 to 24+50	Low	Low	0.036	510.0	2.0	36.41	0.00340
Sum erosion subtotals in Column (7) for each BEHI/NBS combination					Total Erosion (ft ³ /yr)	1577.27	
Convert erosion in ft ³ /yr to yds ³ /yr {divide Total Erosion (ft ³ /yr) by 27}					Total Erosion (yds ³ /yr)	58.42	
Convert erosion in yds ³ /yr to tons/yr {multiply Total Erosion (yds ³ /yr) by 1.3}					Total Erosion (tons/yr)	75.94	

Appendix L

Calculations regarding potential compliance issues and cost-effectiveness

Calculations based on the City of Richmond Chesapeake Bay TMDL Action Plan and Powerpoint Presentation to City Council on 09/26/16

- Here is a table summarizing the required reductions in nitrogen (N), Phosphorous (P), and sediment (TSS) by 2018, 2023, and 2028. (Data from the CB TMDL Action Plan)

Pollutant	Pounds/year reduction by the year:		
	2018	2023	2028
Total N	618.23	4,945.84	12,364.6
Total P	136.45	1,091.6	2,729
TSS	59,260.42	474,083.36	1,185,208

- Here are the reductions that would be achieved by 2018 without the proposed Reedy Creek project.

Pollutant	Pounds per year reduction:		
	4 stream rest. projects w/o Reedy*	Reduction required by 2018	% of total reduction required by 2028
Total N	806.33	618.23	6.5%
Total P	731.07	136.45	26.8%
TSS	482,504	59,260.42	40.7%

*Calculations based on addition of individual reductions provided for each project in Table ES-5. If one subtracts the numbers for the Reedy Creek project from the total values in Table ES-5, one gets slightly different numbers because of errors in the table.

The key conclusion is that the Reedy Creek project is not required for compliance by 2018. It would not be needed before 2023. The other important thing to notice is that the real pollutant of concern with regard to compliance is **Nitrogen**. With just 4 stream restoration projects, the city would accomplish all of the needed TSS reduction through 2023. For Total P, the situation is similar. With just four projects, the city would be well on its way to compliance for Total P through 2023. This issue with Total N is explored below.

3. The following information was provided by DPU on Slide 3 of its Powerpoint presentation to City Council on Sept. 26, 2016

2013 Alternative Analysis of TMDL Total Phosphorus Compliance Costs for 2,550 pounds of P

- Stream Restoration costs: \$11,900,850 (not including any DEQ matching funds)
- Bioretention costs: \$139,682,784
- Difference of \$128 Million would come to Stormwater Ratepayers!

Calculation A. DPU's number for the stream restoration costs (\$11,900,850) is not consistent with the information in their Chesapeake Bay TMDL Action Plan. Using the City's own estimated costs for the 4 stream restoration projects (not including Reedy Creek), it would take about \$20.7 million to accomplish full compliance for Total P by 2028. Of course, this does not include maintenance costs and the potential for serious failure. In addition, our stream restoration specialist believes their estimated costs for the proposed Reedy Creek project is unrealistically low.

Calculation B. The estimate for the cost of bioretention (over \$139 million) is very high and there is no indication of how they arrived at the number. Using their own information for the estimated cost of bioretention at Covington Road (Slide 16), the estimate for bioretention is \$67 million.

Calculation C. As noted above, the real compliance problem facing the city is **nitrogen**. If one calculates how much it would cost to reach full compliance for nitrogen by 2028 using stream restoration, it would cost about \$91 million. (Calculation based on the numbers in the TMDL Action Plan for the four stream restoration projects not including Reedy Creek.) We do not currently have the numbers to do the equivalent calculation for bioretention. But the point is that the city needs to use a mix of strategies and the Reedy Creek project just is not necessary if the real problem going forward is nitrogen.