

► FILE #:

10-D-10-UR

#### KNOXVILLE/KNOX COUNTY METROPOLITAN PLANNING COMMISSION USE ON REVIEW REPORT

**AGENDA ITEM #** 

36

		AGENDA DATE: 10/14/	2010
►	APPLICANT:	RAY WALKER - WALKER TRUCKING CONTRACTORS, INC.	
	OWNER(S):		
	TAX ID NUMBER:	51 104	
	JURISDICTION:	County Commission District 8	
۲	LOCATION:	North side of Rutledge Pike, east of Rosewood Road	
۲	APPX. SIZE OF TRACT:	64 acres	
	SECTOR PLAN:	Northeast County	
	GROWTH POLICY PLAN:	Jrban Growth Area (Outside City Limits)	
	ACCESSIBILITY:	Access is via Rutledge Pk. a four lane, median divided arterial road.	
	UTILITIES:	Water Source: Northeast Knox Utility District	
		Sewer Source: NA	
	WATERSHED:	Holston/French Broad & Legg Creek	
►	ZONING:	PC (Planned Commercial)	
►	EXISTING LAND USE:	Soil borrow pit	
•	PROPOSED USE:	Mining and mineral extraction (soil removal) and crushed stone store storage and distribution facility	
	HISTORY OF ZONING:	The site was zoned PC (Planned Commercial in 2006 (2-A-06-RZ)	
	SURROUNDING LAND	North: Rural density residential / A agricultural	
	USE AND ZONING:	South: Low density residential / PR & RB residential	
		East: Mixed commercial and residential / A agricultural, RB residenti CB & SC-1 commercial	ial,
		West: Mixed commercial and residential / A agricultural, RB residenti CA &CB commercial	ial,
	NEIGHBORHOOD CONTEXT:	The site is located on the north side of Rutledge Pk. in an area that is be characterized by its mixture of residential and commercial uses. Residential development in the area consists of detached dwellings on l that range in size from .25 acre to large acreage tracts. Commercial development in the area consists of retail sales, equipment sales and service and trucking oriented businesses.	

#### **STAFF RECOMMENDATION:**

APPROVE the request for a mining and mineral extraction facility and a stone/gravel storage and distribution operation as shown on the site plan subject to 10 conditions.

1. Meeting all requirements of Article 4 ,Section 4.50.02 Standards Governing Surface Mining and Mineral Extraction, Article 4, Section 4.10 Performance Standards for Commercial and Industrial uses and all other applicable requirements of the Knox County Zoning Ordinance

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2. Meeting all applicable requirements of the Knox County Dept. of Engineering and Public Works

3. Meeting all applicable requirements and obtaining all required permits from the Tenn. Dept. of Environment and Conservation

4. Design and construction of the acceleration and deceleration lanes shown on the site plan per the approval of the Tenn. Dept. of Transportation. Construction of these facilities are to be completed within 12 months of the approval date of this request.

5. Construction of the 30' wide concrete driveway as shown on the site plan. This constructing of this driveway is to be completed within 6 months of the approval date of this request.

6. Commencing vegetative reclamation of the previously mined portion of the site that is within the required setbacks within six months after approval of this request of the Knox County Commission.

7. Reducing, if required, the area to be mined in a manner such that none of the excavated area will be visible by an individual standing on Rutledge Pike.

8. Providing MPC staff with a plan prepared by a registered landscape architect showing the final grading of the entire 64 acre site, creating slopes that will not exceed a 2 to 1 slope. The plan will include a reclamation plan that specifies the type and rate of use of ground cover plant materials and the proposed soil amendments that will be necessary to stabilize and support the landscaping of this site within two years after commencing the reclamation program.

 Approval of the mining and mineral extraction portion of this request by the Knox County Board of Commissioners as required by Article 4 Section 4.50.02C of the Knox County Zoning Ordinance
 A revised site plan reflecting the conditions of approval by MPC and the Knox County Board of Commissioners must be submitted to MPC staff for review and certification prior to obtaining a grading permit from Knox County

With the conditions noted, this plan meets the requirements for approval in the PC (Planned Commercial) zone and the other criteria for approval of a use on review.

COMMENTS:

This is a 64 acre site on the north side of Rutledge Pk. The applicant is requesting two approvals for this site. First is a request to permit a mining operation for the purpose of removing fill material from the site. The second approval being sought is a request to operate a gravel and stone storage and distribution facility at this location. Initially, the applicant only applied for the storage and distribution facility. After visiting the site and discussing with the applicant their long term plans for the property, staff requested that the applicants add the mining and mineral extraction request to their application.

This applicant has been removing top soil and fill material from this site sine 2004 and wishes to continue their present operation for many years to come. The Knox County Zoning Ordinance states that the removal of clay or earth for purposes other than those customarily involved in the grading of streets or other excavations necessary in preparing land for construction is a mining operation. It could be argued that this applicant is preparing this site for future commercial development. The use of this site for the gravel storage and distribution facility can be considered as the future commercial use of this site. However, under normal circumstance site preparation for development is done over a relatively short period of time. Typically the site would be brought to grade and construction of buildings and parking areas would commence or the site would be stabilized by over seeding. In this case the applicant proposes to continue to remove soil from this site for many years. Staff believes this constitutes a miming operation. By treating it as a mining operation, compliance with the standards contained in the Zoning Ordinance will be required. The standards address setbacks, hours of operation, restoration/reclamation, access, and noise and dust control. In the event the mining and mineral extraction portion of this request is denied, staff would recommend that the potion of the site not being used for the gravel storage be stabilized within one year of the date of denial.

The site plan presented with these requests shows that 41 acres of this 64 acre site will be disturbed. It is the intent of the applicant to maintain a large buffer on both the north and south sides of the site. By maintaining a large buffer on the north side of the property, all of the drainage will be confined to one drainage basin. This will eliminate the need for duplicating drainage and stormwater control features. Additionally, it provides for a undisturbed buffer area that is a minimum of 200' in depth. The buffer along the south side of the site which is adjacent to Rutledge Pk. is even larger than the buffer along the northern boundary of the site. Due to the existing topography of the site along Rutledge Pk., this operation is and will continue to be almost invisible from the road. The site rises sharply from Rutledge Pk. This area will be

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maintained in it's heavily wooded state. The setbacks on the east and west sides of the site will meet the requirements of the Zoning Ordinance.

In order to provide access to and from the site improvements are planned to Rutledge Pk. Acceleration and deceleration lanes will be constructed at both the east and west approaches to the site. All work done within the Rutledge Pk. right-of-way will require Tenn. Dept. of Transportation approval. Additionally, a 30' wide concrete driveway will be constructed from the scales and truck wash area to the highway. This driveway will serves as a strong all weather access and will help in the applicant's efforts to control or eliminate mud and dust from leaving the site.

The applicant currently purchases gravel from the zinc mining operations in the Mascot area. At present this material is being transported to Jefferson County storage facility owned by this same applicant. It is the desire of this applicant to reduce the distance to their material source to their storage/distribution facility. The material will be brought to this site for storage and distribution only. No crushing, mixing or other processing of the gravel at this location will be permitted.

EFFECT OF THE PROPOSAL ON THE SUBJECT PROPERTY, SURROUNDING PROPERTIES AND THE COMMUNITY AS A WHOLE

1. The proposed mining and gravel storage and distribution facility will have minimal impact on local services since all utilities are available to serve this site.

2. Roadway improvements are proposed that will enhance the safety and operation of this facility.

3. Development of this site for a mining and gravel storage and distribution facility will have minimal visual impact

# CONFORMITY OF THE PROPOSAL TO CRITERIA ESTABLISHED BY THE KNOXVILLE ZONING ORDINANCE

1. With the recommended conditions, the proposed mining operation and gravel storage and distribution facility meets the standards for development within the PC zoning district and all other requirements of the Zoning Ordinance.

2. The proposed mining operation and gravel storage and distribution facility are consistent with the general standards for uses permitted on review: The proposed development is consistent with the adopted plans and policies of the General Plan and Sector Plan. The use is in harmony with the general purpose and intent of the Zoning Ordinance. The use is compatible with the character of the area where it is proposed. The use will not significantly injure the value of adjacent property. The use will not draw additional traffic through residential areas.

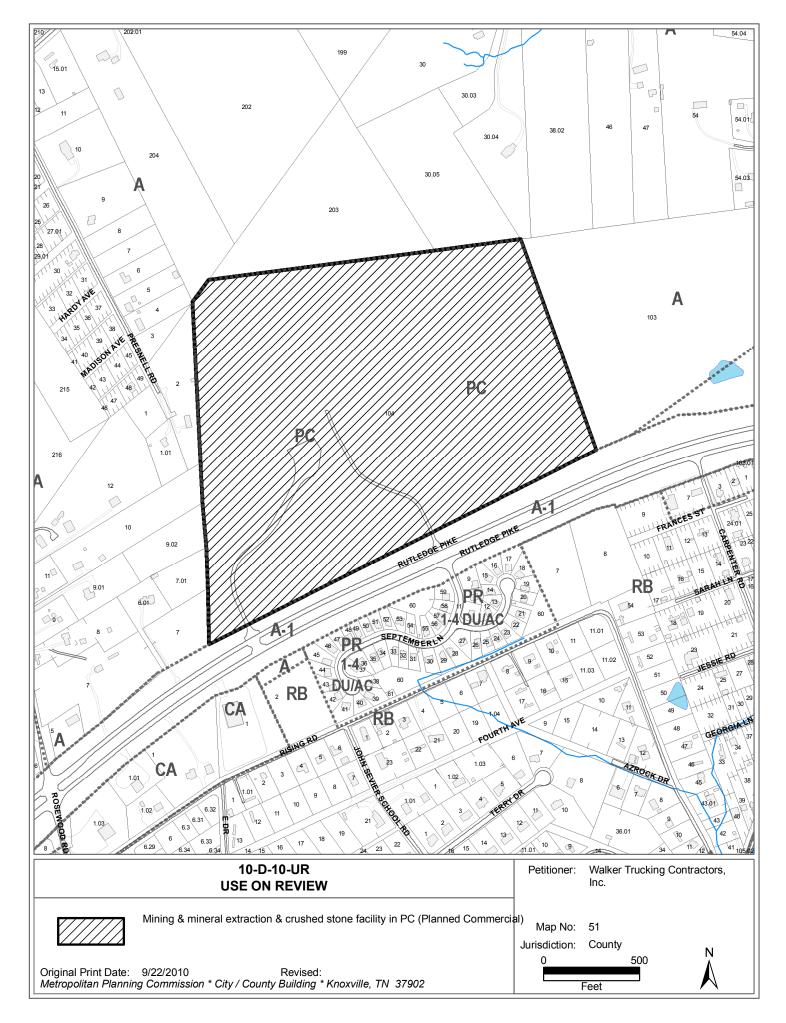
CONFORMITY OF THE PROPOSAL TO ADOPTED MPC PLANS

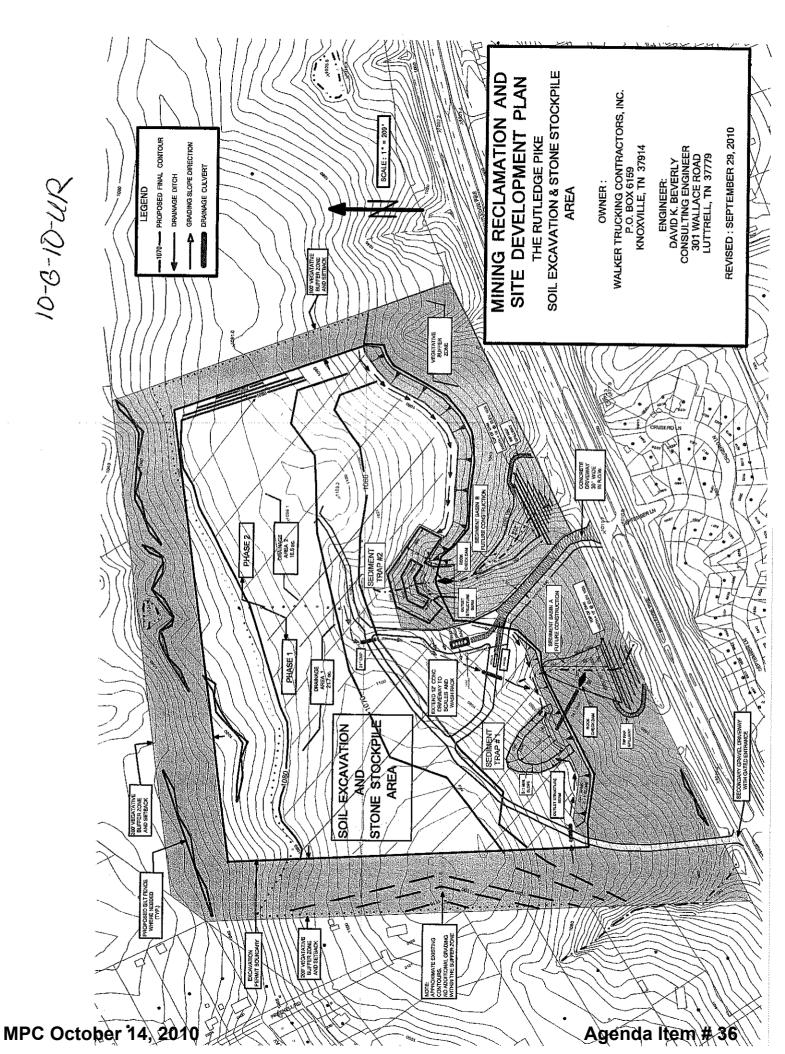
1. The Northeast County Sector Plan identifies this property for low density residential use.

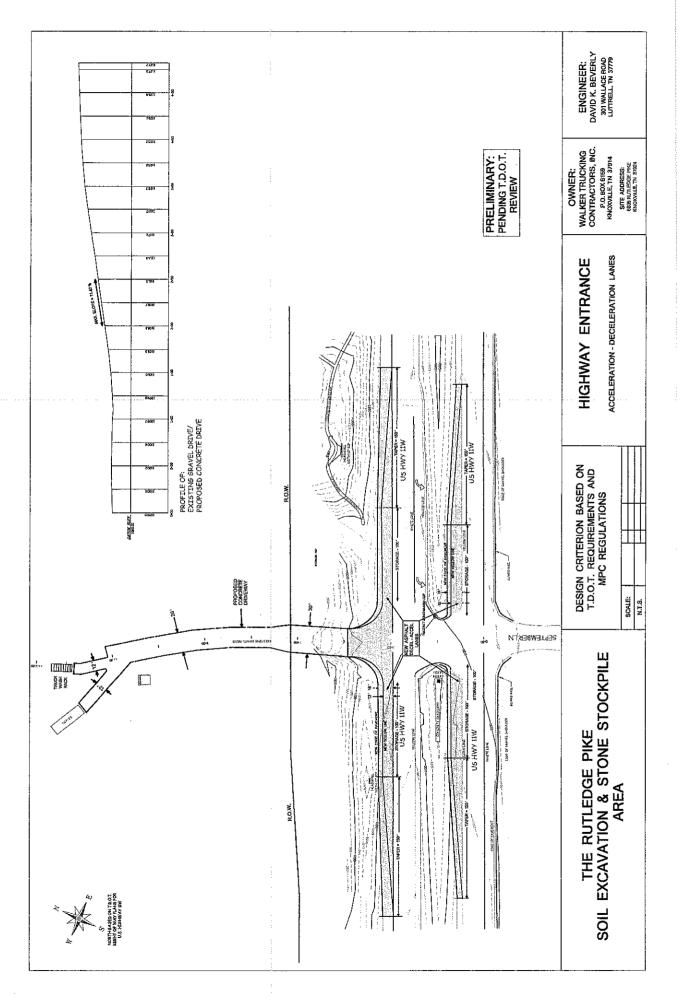
ESTIMATED TRAFFIC IMPACT: Not calculated.

ESTIMATED STUDENT YIELD: Not applicable.

MPC's approval or denial of this request is final, unless the action is appealed to the Knox County Board of Zoning Appeals. The date of the Knox County Board of Zoning Appeals hearing will depend on when the appeal application is filed. Appellants have 30 days to appeal an MPC decision in the County.







STORM WATER MANAGEMENT AND MINING OPERATIONS PLAN

# **RUTLEDGE PIKE**

# SOIL EXCAVATION & STONE STOCKPILE AREA

# REGULATORY COMPLIANCE SUBMITTAL FOR

# **KNOX COUNTY, TENNESSEE**

# **GRADING PERMIT**

### AND

# **KNOXVILLE – KNOX COUNTY MPC SURFACE MINING REGULATIONS**

### AND

# TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION STORM WATER POLLUTION PREVENTION PLAN

Submitted By: Walker Trucking Contractors, Inc. P.O. Box 6159 Knoxville, TN 37914 865-933-0225

> Prepared By: David K. Beverly Consulting Engineer 301 Wallace Road Luttrell, TN 37779 865-992-2467

June 11, 2010 Revised: August 10, 2010 Revised: September 29, 2010



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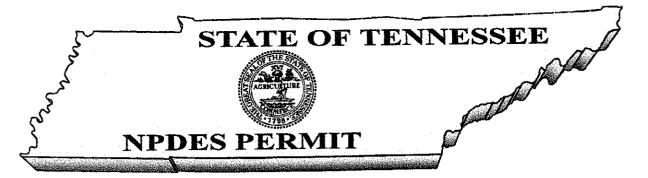
- Knox County Grading Permit Application
- MPC Development Plan Application
- TDEC Notice Of Intent (and Copy Of Approved N.O.C.)
- TDEC Notice Of Termination
- Storm Water Pollution Prevention Plan & Mining Operations Plan
  - o General Information
  - Existing Site and Soil Conditions
  - Mining Operations Plan
  - Project Description and Progression of Excavation
  - Drainage Considerations and Erosion Control Facilities
  - Drainage Design Summary
  - o Sediment Control Structure Clean Out and Maintenance
  - Construction Staging, Site Access and NOC Posting Location
  - Inspection Procedures
  - Safe Dams Information
  - Spills and Non-Storm Water Contingencies
  - Owner and Contractor's Certifications
- Seed Mixture Table
- Site Location Map
- Grading and Drainage Plan
- Soils Map
- Property Information
  - Tax Map and Parcel Data
  - o Zoning Map
- Appendix
  - Detail Drawing Truck Wash Rack
  - Detail Drawing Access Road Typical Section
  - Detail Drawing Typical Drainage Ditch
  - Detail Drawing Sediment Basin Emergency Spillway
  - Detail Drawing Sediment Trap #1 & Sediment Basin A
  - Detail Drawing Sediment Trap #2 & Sediment Basin B
  - Schematic Elevation Sediment Basin A & B
  - Peak Discharge Nomograph
  - Table 4 Emergency Spillway Outlet Capacity
  - Table 5 Spillway Design Data

Walker Truck Contractors, Inc. Rutledge Pike, Knox County, Tennessee

Knox County	GRADING PERMIT (Expires 1 year from date issued) NON-TRANSFERABLE	Knox County Department of Codes/Engineering Codes: 215-2325 Eng: 215-5825	
Date: <u>June 11, 2010</u> Job Address: <u>6805 Rutile</u> CLT#: <u>051</u> Par	<u>DGE P. KWOXVILLE, TN 37</u> 924 cel # <u>104</u> Zone: <u>PC</u>	Grading Permit # Acreage Disturbed: Acreage Total:6 4 Issued By: Phone #	
Owner: RAY WALK	ER WCK CONTRACTORS, INC	<u>865-933-0225</u> <u>865-933-0225</u>	•
Architect:	BEVERLY		
Erosion and Drainage Control Bond Required By The Division Entrance To Site Located On (All Construction On A State Will Require a "Right Of-Wa	hit Required?YesNo Plan Approved By The Division Of Engineering n Of Engineering?YesNo State Highway?YesNo e Highway Other Than A Single Family Resider ay" Permit From State D.O.T.) <i>EXISTING</i> (YesNo If yes, provide a copy to Knox	ntial ENTRANCE copy to Knox County Engineering.	ing Ew
Note: This grading permit iss required federal, st	ued by Knox County does NOT release the app ate and local permits (e.g. ARAP, Corps of Eng Also, ALL permits should be posted at jot	plicant from obtaining other gineers, etc.). b site.	
Describe Work: <u>BORRE</u> Future Use Of Site: <u>SAN</u>	$\frac{5-21-2010}{5-21-2010}  \text{End Construction} \\ \frac{5-21-2010}{5-21-2010}  \text{End Construction} \\ \frac{5-21-2010}{5-210}  \text{End Construction} \\ \frac{5-21-200}{5-210}  End Construction$	ERCIAL BUSINESS PARK	- 10 TE
SIGNATURE OF OWN	ER OR CONTRACTOR 1st Copy - Code Administration/Engineering 2nd Copy - Petitioner's Copy	8-17-10 DATE OF SIGNATURE	

IVI I       Name of Applicant: RAY WA         METROPOLITAN       Name of Applicant: RAY WA         P L A N N I N G       Date Filed: 8 30 2010         COMMISSION       Date Filed: 8 30 2010         Application Accepted by:       M	er: Development Plan 10-D-10-0R
PROPERTY INFORMATION Address: <u>6805 RUTLEDGE PK.</u> General Location: <u>KNOXVILLE, TN 37924</u> <u>MS Rutledge Pike</u> , <del>BS</del> Rosewood Rd Tract Size: <u>64ac/4/ac.USED</u> No. of Units: Zoning District: <u>PC</u> Existing Land Use: <u>SOIL EXCAVATION</u>	PROPERTY OWNER/OPTION HOLDER PLEASE PRINT RAY WALKER Name: <u>RAY WALKER</u> Company: <u>WALKER TRUCKING CONTRACTORS</u> IN: Address: <u>P.O. BOX 6159</u> City: <u>KUOXUILE</u> State: <u>TN</u> zip: <u>37914</u> Telephone: <u>933-0225</u> Fax: <u>933-5518</u> E-mail:
Planning Sector:       Northeast County         Sector Plan Proposed Land Use Classification:         LDR, SLPA         Growth Policy Plan Designation:         Census Tract:       52.02         Traffic Zone:       134.         Parcel ID Number(s):       104 051 104         Jurisdiction:       □ City Council       District         ☑ County Commission       8 <sup>th</sup> District	APPLICATION CORRESPONDENCE All correspondence relating to this application should be sent to: PLEASE PRINT DAVID BEVERLY Name: DAVID BEVERLY Company: CONSULTING ENGINEER Address: 301 WALLACE Rd City: LUTTRELL State: IN Zip: 37779 Telephone: 992-2467 [661-9776 Fax: 992-2467 Fax: 992-2467 E-mail: Coppervidge 303@bellsouth.net
APPROVAL REQUESTED Development Plan:Residential XNon-Residential Home Occupation (Specify Occupation) d Other (Be Specific) Soil ExCAVATION SURFACE MINING APPLICATION	APPLICATION AUTHORIZATION I hereby certify that I am the authorized applicant, representing ALL property owners involved in this request or holders of option on same, whose signatures are included on the back of this form. Signature:

SIGNATURES OF ALL PROPERTY OWNERS INVOLVED OR HOLDERS OF OPTION ON SAME MUST BE LISTED BELOW:					
Please Sign in Black Ink:	(If more space is required attach additional sheet.)	_			
Name /	Address • City • State • Zip	Owner	Option		
Karg Madkes	P.O. Box 6159, KOOXVILLE, TN 37914				
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		nga <u></u>			
	والمرابع المحمد ومحمد ومحمد ومحمد والمحمد والمرابع ومحمد في ومحمد والمرابع ومحمد والمحمد ومحمد والمحمد و	· · · · · · · · · · · · · · · · · · ·			



# Tracking No. TNR133739

## NOTICE OF COVERAGE UNDER THE TENNESSEE STORM WATER MULTI-SECTOR GENERAL PERMIT FOR INDUSTRIAL ACTIVITIES FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (CGP)

Tennessee Department of Environment and Conservation Division of Water Pollution Control 401 Church Street, 6th Floor, L&C Annex Nashville, Tennessee 37243-1534

Under authority of the Tennessee Water Quality Control Act of 1977 (I.C.A. 69-3-101 et seq.) and the delegation of authority from the United States Environmental Protection Agency under the Federal Water Pollution Control Act, as amended by the Clean Water Act of 1977 (33 U.S.C. 1251, et seq.):

Name of the Construction Project:	Walker Trucking Contractors, Inc. Borrow Dirt Excavation Area (41 acres)
Construction site Owner/Developer:	Walker Trucking Contractors, Inc.
Contractor(s):	Walker Trucking Contractors, Inc.
is authorized to discharge:	storm water associated with construction activity
from site located at:	6805 Rutledge Pike, Union County
to receiving waters named:	Unnamed tributary to Holston River
	is in a minute and other conditions got forth herein

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

Likely presence of threatened or endangered species in one mile radius: NO Likely presence of threatened or endangered species downstream: YES

Additional pollution prevention requirements apply for discharges into waters which TDEC identifies as: a) impaired by siltation: **NO** b) discharging into high quality waters: **NO** 

Your coverage shall become effective on **September 7, 2010**, and shall be terminated upon receipt of <u>Notice of Termination</u>, or the date of expiration of the TMSP, **May 14, 2014**. Compliance with terms and conditions of the <u>Construction SW GP</u> will be deemed compliance with the TMSP.

Paul E. Davis, Director Division of Water Pollution Control

RDAs 2352 and 2366

#### CN-0759

#### **MPC October 14, 2010**

Department of Environment and Conservation Division of Water Pollution Control



#### CONSTRUCTION ACTIVITY -- STORM WATER DISCHARGES NOTICE OF INTENT (NOI)

			To taking a	
Site Name:	Walker Trucking Contractors, Inc. Rutledge Pike Soil Excavation & Stone Stockpile	Area	Existing Tracking N	
Street Address	Walker Trucking Contractors, Inc.; Ray Wa	lker	Start date:	5-21-2010
or Location: 6805 Rutledge Pike, Knoxville, TN 37924			Estimated end	date: 5-20-2015
Site The Soil Excavation & Stone Stockpile Area Encompasses Approximately			Latitude:	N 36°02'51.3"
Description:	41 ac. Located On A 64 ac. Tract Of Property.		Longitude:	W 83°49'18.4"
County(ies):	Union		Acres Disturb	
Does a topographi	c map show dotted or solid blue lines and/or wetland	nds 🗖 on or adjacent to the con	struction site?	No - See Attached Map
If wetlands are loc	ated on-site and may be impacted, attach wetlands del	ineation report.		
If an Aquatic Reso	surce Alteration Permit has been obtained for this site,	what is the permit number?	ARAP permit	No.:
Receiving waters:		· · ·	·	· · · · · · · · · · · · · · · · · · ·
Attach the SWPPI	with the NOI SWPPP Attached	Attach a site location map	Map Attac	ched
Site Owner/Dev	reloper: (person, company, or legal entity that has operation	nal or design control over construct	tion plans and spe	cifications)
Annlicant	: Walker Trucking Contractors, Inc. ; P.C	). Box 6159; Knoxville, TN	37914	
Site Owner/Develop	er Contact: (individual responsible for site)	Title or Position:		
Ray Walker		Owner		-
Mailing Address:		City:	State: TN	Zip: 37914
P.O. Box 6159		Knoxville E-mail:		J/714
Phone: 865-933-0225		L-India.		
005-935-0445		Title or Position:		
		The of Fostasia.		
· · · · · · · · · · · · · · · · · · ·		City:	State:	Zip:
······		E-mail:		
				· · · · · · · · · · · · · · · · · · ·
Owner/Developer	Certification (must be signed by president, vice-pres	ident or equivalent, or ranking	elected official)	
I certify under penal assure that qualified	Ity of law that this document and all attachments were prep personnel properly gathered and evaluated the information ectly responsible for gathering the information, the inform e that there are significant penalties for submitting false infor	submitted. Based on my inquiry of submitted. Based on my inquiry of lation submitted is to the best of	ision in accordant the person or person we knowledge at	nd belief, true, accurate, and
Owner/Developer name	r print or bype	Signature /	· · · · · · · · · · · · · · · · · · ·	Date
Walker Truck	ting Contractors, Inc.; Ray Walker	In. R. Macker		8-27-10
Contractor(s) Co	rtification (must be signed by president, vice-presider	it or equivalent, or ranking elect	ted official)	
I certify under penal owner/developer ide am aware that this activities on-site are	ty of law that I have reviewed this document, any attachment ntified above, and/or my inquiry of the person directly resp NOL, if approved, makes the above-described construction thereby regulated. I am aware that there are significant per mply with these permit requirements.	ts, and the SWPPP referenced above onsible for assembling this NOI, I to activity subject to NPDES nermit	e. Based on my in believe the inform t number TNR10	0000, and that certain of my
Primary contractor nam	e and address; print or type	Signature		Date
Walker Truck	king Contractors, Inc.; Ray Walker	Signature Signature	als	8-27-10
Other contractor name	and address; print or type	Signature		L'ate
Other contractor name	and address; print or type	Signature	······	Date
			· · · · · · · · · · · · · · · · · · ·	
OFFICIAL SIA	IE USE ONLY			High Quality Water

 OFFICIAL STATE USE OF DEP
 Field Office
 Permit Number
 High Quality Water

 Received Date
 Reviewer
 Field Office
 Primit Number
 High Quality Water

 Fee(s)
 T & E Aquatic Fauna
 Impaired Receiving Stream
 Notice of Coverage Date

 RDAs 2399 and 2400
 RDAs 2399 and 2400

CN-0940 (Rev 05-05)



#### NOTICE OF TERMINATION (NOT) – STORM WATER DISCHARGES CONSTRUCTION ACTIVITY

This form is required to be submitted when requesting termination of coverage from the General NPDES Permit for Discharges of Storm Water Associated with Construction Activities. The purpose of this form is to notify the Tennessee Department of Environment and Conservation that you, as a permitted operator of storm water discharges from a construction activity, no longer have responsibilities related to erosion and sediment controls at the construction site. Submission of this form shall in no way relieve the permittee of permit obligations required prior to submission of this form. Please submit this form to the local Division of Water Pollution Control, Environmental Field Office (EFO) address (see table below), and marked "Storm Water Notice of Termination". For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Type or print clearly, using ink and not markers or pencil.

Site Name:	Walker Trucking Contractors, Inc. Soil Excavation & Stone StockpileArea	Tracking No.
Street Address or Location:	Walker Trucking Contractors, Inc.; Ray Walker 6805 Rutledge Pike, Knoxville, TN 37924	· .
Site Description:	The Soil Excavation & Stone Stockpile Area Includes Approximately On A 64 ac. Tract Of Property.	41 ac. Located

#### Site Owner/Developer: (person, company, or legal entity that has operational or design control over construction plans and specifications) Applicant : Walker Trucking Contractors, Inc. : P.O. Box 6159: Knoxville, TN 37914

Site Owner/Developer Contact: (individual responsible for site)	Title or Position:		
Ray Walker	Owner		
Mailing Address:	City:	State:	Zip:
P.O. Box 6159	Knoxville	TN	37914
Phone:	E-mail:		
865-933-0225			

#### Check the reason for termination of permit coverage:

X	Storm water discharge associated with construction activity is no longer occurring and the area previously under construction has been restabilized (i.e., termination of initial permittee coverage) Explain: IDOI Project Has Been Completed
	You are no longer the operator of the facility/site (i.e., termination of primary or secondary permittee coverage)
	Name of Permittee requesting termination of coverage:
	Explain:

Certification and Signature (must be signed by president, vice-president or equivalent, or ranking elected official)

I certify under penalty of law that either. (a) all storm water discharges associated with construction activity from the portion of the identified facility where I was an operator have ceased or have been eliminated or (b) I am no longer an operator at the construction site. I understand that by submitting this notice of termination, I am no longer authorized to discharge storm water associated with construction activity under this general permit, and that discharging pollutants in storm water associated with construction activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit I also understand that the submittal of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act

For the purposes of this certification, elimination of storm water discharges associated with construction activity means that all disturbed soils at the portion of the construction site where the operator had control have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time to insure final stabilization is maintained, or that all storm water discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have otherwise been eliminated from the portion of the construction site where the operator had control.

#### Operator name; print or type Walker Trucking Contractors, Inc.; Ray Walker

Kay stacks

Date

	•				-
EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	2510 Mt. Moriah Road STE E-645	38115-1520	Cookeville	1221 South Willow Ave.	38506
Jackson	362 Carriage House Drive	38305-2222	Chattanooga	540 McCallie Avenue STE 550	37402-2013
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	2484 Park Plus Drive	38401	Johnson City	2305 Silverdale Road	37601

CN-1175 (Rev 05-05)

RDAs 2399 and 2400

#### **MPC October 14, 2010**

# STORM WATER POLLUTION REVENTION PLAN AND MINING OPERATIONS PLAN

#### **General Information**

This storm water management, grading and mining reclamation plan is submitted on behalf of Walker Trucking Contractors, Inc. The submittal is a revision and supercedes the Storm Water Management Plan previously submitted and dated June 11, 2010 and is a supplement to the submittal dated August 10, 2010. The plan has been prepared as an engineering design document to provide guidelines for the construction activities associated with a 64-acre tract of property, which is located on Rutledge Pike in the eastern part of Knox County, Tennessee (CLT Map 051, Parcel 104) and is owned by Walker Trucking Contractors, Inc., hereinafter referred to as the Owner. The owner, being a grading contractor and the responsible party for the construction activities at this site location, may also be referenced as the Contractor in the management plan presented herein.

It is intended for this submittal to provide the Owner with the documentation and information required for regulatory compliance for the Knox County Storm Water Management Ordinance, the Tennessee Department of Environment and Conservation, Storm Water Pollution Prevention Plan (SWPPP) and the Knoxville-Knox County MPC regulations with respect to the Standards Governing Surface Mining. Specifically, the SWPPP is developed in accordance with the Tennessee General NPDES Permit (TNR 100000) for Storm Water Discharges associated with construction activities and is prepared using sound engineering practices. The owner shall perform all construction activities and incorporate all appropriate erosion control practices as specified in the referenced regulations.

Historically, the Owner has utilized the site as a borrow dirt excavation area. A permit was approved and issued for the site under the SWPPP program (TNR 1301032) on September 24, 2004. This submittal serves as a renewal of the expired permit and reflects a modification to the original grading plan.

The Owner intends to continue using this borrow pit in support of his truck hauling business. In addition, the Owner will utilize the property as a stone stockpile area. The owner currently buys gravel stone from Nyrstar, Inc., which operates zinc mines locally in Knox County and Jefferson

Walker Iruck Contractors, Inc. Rutledge Pike, Knox County, Tennessee Soil Excavation & Stone Stockpile Area Storm Water Management and Mining Reclamation Plan

County. The Owner currently transports this stone from the zinc mines to his crushing and stockpile facility located in Jefferson County on Ashville Highway. The stone is a by-product of the zinc operations where it is washed and screened to two primary sizes. It is transported to the Owner's facility where it is further crushed and blended to make a construction and/or roadway stone. As stated above, the Owner has decided to establish another stockpile area on Rutledge Pike for custom sale of his stone product in the Knoxville market area. The Rutledge Pike stone stockpile area will not be used for crushing or processing and will only be utilized for stockpiling.

Also, in recognition that the Rutledge Pike area has developed into a commercial business zone, the grading plan presented herein has been designed as part of a very long-range development plan for this purpose. The Owner will grade the site in such a way that the final graded topography of the property would lend itself to future commercial use, should that become a viable alternative.

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#### **Existing Site and Soil Conditions**

The site is currently an active soil excavation area. In accordance with MPC regulations, this activity constitutes the criterion, as classified, for a surface mining soil extractions operations. The Owner operates the soil-borrow business, which hauls excavated material off-site, for customers in need of fill dirt. The property has been divided into two primary watershed areas designated as Phase 1 and Phase 2 on the proposed grading plan.

The Owner has been excavating the soil material in a manner generally consistent with the proposed grading plan. The initial excavation began along and extends northward from the area indicated on the proposed grading plan as the vegetative buffer zone. The existing excavation area has been graded to slope from north to south. The drainage run-off currently sheet flows toward the cut bank to an area designated on the proposed grading plan as a temporary sediment trap. As previously excavated and graded, this area forms a natural basin that receives the drainage-run off and effectively acts as a sediment entrapment. The volume of the existing natural sediment trap has apparently been adequate to prevent run off from leaving the site. The run-off within the sediment trap eventually evaporates or soaks into the ground. As described in subsequent sections of this submittal, this sediment trap area will continue to be utilized with some modification to meet design specifications.

Approximately 10 feet to 20 feet of depth has been excavated along the boundary of the vegetative buffer zone leaving a sloped bank that separates the excavation area from the buffer zone. This is referred to as the existing cut bank. The existing excavation area extends in a northerly direction away from the cut bank. The depth of cut within the excavation area has varied depending on soil conditions and rock outcroppings. Whenever rock has been encountered, the excavation generally sloped around and over the outcropping without breaking or blasting the rock.

The soils in the excavation area generally consist of a cherty silt loam typical of the Fullerton-Bolton-Clarksville soil association. Specifically, as indicated on the Knox County Soil Survey Map, the soils are a Fullerton cherty silt loam that over lays a dolomitic limestone bedrock, which lies at a depth of 20 to 40 feet. (Refer to the enclosed Soils Map).

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#### **Mining Operations Plan**

In order to be in compliance with the MPC standards governing surface mining activities, the following items summarize the considerations that represent the guidelines, which the Owner shall follow during the course of the construction of this site.

- All equipment, building and premises shall be constructed, maintained and operated in accordance with the performance standards of Knox County.
- A 200' vegetative buffer zone and set-back has been established on the west and north side of the property. These are the only sides of the property where existing residential dwellings are close enough in proximity to have vision of the operations. A 100' vegetative buffer zone and set-back has been established on the east side of the property. A vegetated buffer zone greater than 200' has been established on the south side of the property, which lies along the right-ofway of Highway 11-W (Rutledge Pike). The operations are not visible from Rutledge Pike. Refet to the Site Plan for location of the buffer zones.
- There will not be any buildings utilized for power driven equipment at this site.
- In order to provide safe entry to the site and lessen traffic congestion, a highway access design
  plan has been developed as an integral part of the proposed operations. The plan consist of the
  construction of two acceleration lanes and two deceleration lanes along Rutledge Pike. The
  guidelines for the proposed lane construction have been coordinated with I.D.O.T. and will
  be submitted as part of a highway entrance permit application. A performance bond and
  insurance certification will be submitted to T.D.O.T. with this application. Refer to the
  Highway Entrance design drawing for details of the proposed decel-accel lanes.
- Whenever the operational activity has been discontinued for any period exceeding 12 months, all equipment, buildings and structures will be removed from the property. An exception to this stipulation shall be any structures or facilities that are needed to be in compliance with State or County erosion control measures.
- There will not be any excavation activity within 100' of any residential zone. All areas within the referenced buffer set-back zones that have been previously disturbed will be immediately seeded and mulched in accordance with the guidelines of this erosion control plan.
- No work or excavation activity will be performed except during the hours between 7:00 AM and 9:00 PM, except as necessary for equipment repair and maintenance.

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#### **Project Description and Progression of Excavation**

The Owner intends to generally develop the site in manner that achieves a multi utilization of the property. Initially the objective is to excavate the property and enable the Owner to continue the trucking transport business and custom sale of the excavated soil. After the area has been excavated and graded, the Owner will use the property as a stone stockpile and sale area. And finally, the property may be used for development of a future commercial/business park. Master planning has not been performed at this time that would determine the need for construction of specific infra- structure improvements such as access roads or the subdivision of the property for sale.

The excavation of the property will be constructed in two phases as determined by drainage watershed areas and as indicated on the grading plan. Phase 1 will be developed first. Each phase will be completed in sections averaging two to four acres in size and will be excavated and brought to the approximate grades and slopes indicated on the proposed Grading and Drainage Plan. The excavation will progress in layers approximately 10 feet in depth and extend in a northerly direction away from the cut-bank, which lies along the vegetative buffer zone. The depth of cut will vary depending on soil conditions and the grades will be adjusted as necessary to slope the drainage to sheet flow toward the temporary sediment trap.

Upon regulatory and permit approval the Owner will immediately begin stabilization of all areas previously disturbed by construction. Stabilization will be accomplished by either establishing vegetative cover or by inclusion of the area within the stone stockpile area.

The Owner will also immediately begin construction of truck wash rack that will be utilized to clean mud from the truck tires in inclement weather. City utility water service will be extended into the property to provide the water spray used for cleaning the tires. All runoff will be controlled and routed to the sediment trap. The purpose of the washing activity is to prevent the trucks from tracking mud onto the highway or offsite. The Owner will immediately remove any accidental mud tracking onto the highway.

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As each section of the excavation area is brought to final grade, the Owner will start to use that section for the stone stockpile area. Areas that are not graded to an acceptable slope for stockpiling purposes will be seeded and mulched in order to establish a permanent vegetative cover.

After Phase 1 has been completed, the Owner will proceed to excavate the clay soil in Phase 2. The progression and grading will be similar to Phase 1, with the drainage sloping toward the temporary sediment trap.

Within 15 days after a section of the property has been excavated to final grades or excavation activities are suspended, the Owner will immediately initiate temporary and/or permanent stabilization of the areas laid bare by construction. Stabilization shall consist of seeding and mulching of the disturbed areas in accordance with the Seed Mixture Table or by incorporation as part of the stone stockpile area.

In the event that issues and situations arise that were not anticipated, the Storm Water management Plan will be edited and kept current with notification submitted to TDEC and to Knox County. The owner shall manage the progression of the grading and earthwork in order to minimize the time of exposure and size of the disturbed area. The pre-construction vegetative ground cover shall not be removed or disturbed more than 10 days before the area is graded. Any sediment that deposits or accumulates offsite or outside the construction area will be removed and hauled back to and within the project area for disposal. If any sediment should runoff and be deposited in a receiving stream, the Owner shall notify TDEC before commencing any remediation/restoration clean-up activity or construction disturbance within the stream area.

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#### **Drainage Considerations**

Upon regulatory and permit approval, the Owner will immediately begin construction of the modified sediment trap located in the Phase 1 watershed.

#### Sediment Traps

The principal means of erosion control will be two temporary sediment traps. In essence, the temporary sediment traps will act as sediment removal basins. Two temporary sediment traps have been designed, one for each Phase. The cut-bank will act as an impoundment dam that forms each basin. Two windows will be excavated through the cut-bank that will provide outlet discharges. Two discharge outlets consisting of rip rap and stone berms will be constructed in accordance with the enclosed TDEC standard drawing. The berms will extend across each excavated window and serve as the outlet control structure for the sediment traps. Rock check dams will be installed at the discharge point of the sediment trap to act as an energy dissipater. The sediment trap for Drainage Area 2 will not be constructed until the soil excavation activities commence in that watershed.

#### Silt Fence

Silt Fencing will be installed where indicated on the Grading and Drainage Plan and constructed in accordance with the TDEC Erosion and Sediment Control Handbook. The silt fencing shown on the northern end of the property will be installed as needed and whenever drainage run-off from the excavated area sheet flows toward the north. It is anticipated that only small areas, if any, will flow in that direction. The Owner's objective is to perform the excavation in such a way that drainage run off will sheet flow toward the temporary sediment traps.

#### Sediment Basins

One sediment basin has been designed for each drainage area. An existing sediment basin for Drainage Area 1 was constructed under the original SWPPP permit. The dimensions of the sediment basin have been modified with this submittal.

The proposed sediment basins will be constructed and utilized when and if the sediment trap area is not available because the space has been utilized and incorporated as part of a future commercial / office development area. The sediment traps will be used for erosion control purposes in the meantime.

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#### **Drainage Design Summary**

#### Drainage Area 1

Area = 21.7 ac. Design Storm: 25 year -24 hour Rainfall: 5.4 in. Rainfall Intensity: 7.1 in /hr. Rational Method "C" value = 0.8 CN = 90 Slope = Moderate Peak Discharge: From Rational Method: Q = 123 cfs From Nomograph: Q = 125 cfs

#### Temporary Sediment Trap 1

Required Initial Total Storage Volume =  $3618 \text{ ft}^3 \times 21.7 = 78,510 \text{ ft}^3$ Required Iotal Wet and Dry Storage Volume =  $\frac{1}{2}(78,510) = 39,255 \text{ ft}^3$  (each) Available Storage Volume Between Elev. 1036 and 1040 =  $85,968 \text{ ft}^3$ From Stage Storage Graph, Available Wet Volume @ Elev. 1037 5 = 42,984 ft<sup>3</sup> From Stage Storage Graph, Available Dry Volume @ Elev. 1040 = 42,984 ft<sup>3</sup> Set Top of Wet Storage and Bottom of Outlet Structure @ Elev. 1038 Set Iop of Dry Storage and Top of Outlet Structure @ Elev. 1040 Set Minimum Top of Embankment (Top of Cut Bank) @ Elev. 1042 Set Length Of Outlet Structure =  $6 \times 21.7 = 130 \text{ ft}$ .

#### Sediment Basin A

Required Initial Total Storage Volume =  $3618 \text{ ft}^3 \times 21.7 = 78,510 \text{ ft}^3$ Required Total Wet and Dry Storage Volume =  $\frac{1}{2}(78,510) = 39,255 \text{ ft}^3$  (each) Set Bottom Of Sediment Basin @ Elev. 1012 Available Storage Volume Between Elev. 1012 and 1020 = 116,000 ft<sup>3</sup> From Stage Storage Graph, Available Wet Volume @ Elev. 1014.7 =  $39,255 \text{ ft}^3$ From Stage Storage Graph, Available Dry Volume @ Elev. 1017.4 =  $39,255 \text{ ft}^3$ Set Top of Wet Storage and Flow Line Of Dewatering Pipe @ Elev. 1014.7 Set Top Of Dewatering Pipe @ Elev. 1016.9 Set Top of Dry Storage and Crest Of Riser Pipe @ Elev. 1017.4

#### **Emergency Spillway**

Set Crest Of Emergency Spillway @ Elev. 1019.0 Line Spillway With 12" to 18" Diameter Rip Rap Set Emergency Spillway Bottom Width @ 24 ft With 3:1 Sideslopes (From Table 5) Maximum Length of Spillway Level Section = 20 ft. – Minimum Slope Past Outlet = 2.6 % Spillway Capacity = 6.4 cfs/ ft. of width = (6.4) (24) = 153 cfs (Table 4) Max. Water Depth In Spillway @ 153 cfs = 1.7 ft Set Top Of Dam @ Elev. 1024 and Width of Top = 10 ft. and All Sideslopes @ 3:1

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Drainage Area 2

Area = 16.6 acDesign Storm: 25 year - 24 hourRainfall: 5.4 in.Rainfall Intensity: 7.1 in /hrRational Method "C" value = 0.8 CN = 90Slope = ModeratePeak Discharge: From Rational Method: Q = 94 cfsFrom Nomograph: Q = 98 cfs

**Temporary Sediment Trap 2** 

Required Initial Total Storage Volume =  $3618 \text{ ft}^3 \times 16.6 = 60,059 \text{ ft}^3$ Required Total Wet and Dry Storage Volume =  $\frac{1}{2}(60,059) = 30,030 \text{ ft}^3$  (Each) Available Storage Volume Between Elev. 1036 and 1040 = 70,614 ft<sup>3</sup> From Stage Storage Graph, Available Wet Volume @ Elev. 1038 = 35,307 ft<sup>3</sup> From Stage Storage Graph, Available Dry Volume @ Elev. 1040 = 37,307 ft<sup>3</sup> Set Top of Wet Storage and Bottom of Outlet Structure @ Elev. 1038 Set Top of Dry Storage and Top of Outlet Structure @ Elev. 1040 Set Minimum Top of Embankment (Top of Cut Bank) @ Elev. 1042 Set Length Of Outlet Structure =  $6 \times 16.6 = 100 \text{ ft}$ .

#### Sediment Basin A

Required Initial Total Storage Volume =  $3618 \text{ ft}^3 \times 16.6 = 60,059 \text{ ft}^3$ Required Total Wet and Dry Storage Volume =  $\frac{1}{2}(60,059) = 30,030 \text{ ft}^3$  (Each) Set Bottom Of Sediment Basin @ Elev 1013 Available Storage Volume Between Elev. 1013 and 1020 = 75,600 ft<sup>3</sup> From Stage Storage Graph, Available Wet Volume @ Elev. 1016 = 32,400 ft<sup>3</sup> From Stage Storage Graph, Available Dry Volume @ Elev. 1019 = 32,400 ft<sup>3</sup> Set Top of Wet Storage and Flow Line Of Dewatering Pipe @ Elev. 1016 Set Top Of Dewatering Pipe @ Elev. 1018 5 Set Top of Dry Storage and Crest Of Riser Pipe @ Elev. 1019

#### Emergency Spillway

Set Crest Of Emergency Spillway @ Elev. 1020 Line Spillway With 12" to 18" Diameter Rip Rap Set Emergency Spillway Bottom Width @ 24 ft. With 3:1 Sideslopes (From Table 5) Maximum Length of Spillway Level Section = 20 ft. – Minimum Slope Past Outlet = 2.6 % Spillway Capacity = 6 4 cfs/ ft. of width = (6.4) (24) = 153 cfs (Table 4) Max. Water Depth In Spillway @ 153 cfs = 1.7 ft Set Top Of Dam @ Elev. 1024 and Width of Top = 10 ft. and All Sideslopes @ 3:1

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#### Sediment Control Structure Clean Out and Maintenance

The contractor shall monitor the sediment structures and all erosion control facilities **twice** each week and after every rainfall event. Whenever the accumulated sediment reaches half **(50%)** of the wet storage volume, the Contractor shall remove the sediment by using a tract hoe and hauling the excavated sediment in a dump truck to a suitable disposal location within the project site area. The Contractor shall inspect the project area daily and immediately prior to all storm events so as to identify and relocate to a stable storage area any litter, construction debris or chemicals that could become a pollutant source for storm water discharge or become a contamination and blockage for any sediment control structures.

#### **Construction Staging, Site Access and NOC Posting Location**

Equipment staging and parking that will be used for the construction in the excavation area shall be kept and performed within the limits of the property boundary. Access from the right-of-way to the working area shall be restricted to the two existing driveway access driveways and in accordance with TDOT requirements. The driveway entrances will be constructed with a gravel base and maintained to prevent truck traffic from tracking mud onto the highway. If mud tracking should ever occur on the highway pavement due to inclement weather conditions, the Contractor shall clean and sweep all debris from the roadway as soon as possible.

The Notice of Coverage and SWPPP plans for the Borrow Dirt Excavation Area will be posted and maintained at the driveway entrance to the Borrow Area. The SWPPP Posting also includes the name, company, phone number, address and a brief description of the project and sediment control facilities.

#### **Inspection Procedures**

The Contractor shall establish a regular inspection program that incorporates and utilizes contractor employees to inspect and maintain all sediment control structures. All designated inspectors shall have completed the required Fundamental EPSC certifications of the Division of Water Pollution Control. Regular inspections to assure proper maintenance of all erosion control facilities and for

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litter control shall be conducted in accordance with the procedures specified in Section 3.5.8 and found on pages 20 and 21, of the Tennessee General Permit No. TNR10-0000.

A minimum of two inspections per week and 72 hours apart shall be conducted on all erosion control facilities. The inspections will closely monitor all outfalls and structures and coordinate the repair of any facilities that have been damaged or bypassed. As referenced above, if any situations are encountered that necessitate a deviation from the SWPPP, the Contractor shall immediately notify TDEC and revise the SWPPP accordingly and then submit the revisions to TDEC as soon as possible. The Construction Storm Water Inspection Certification form shall be completed and noted with each inspection and maintained in permanent files at the project job office. Proper documentation shall be maintained that notes the inspectors name, dates of inspections and any actions taken or required. Documentation shall also be maintained that notes key construction activity such as the dates for beginning and ending grading activities, the dates for stabilization work and the dates of all inspections and daily rainfall amounts. A rain gauge shall be maintained at the project job office site.

#### Safe Dams Act Information

The sediment traps and basins designed for this project do not meet the definition of 'dams' as found in Chapter 1200-5-7 of the Rules of the Department of Environment and Conservation, Division of Water Supply, concerning the Safe Dams Act of 1973. Therefore, no certificate is required for the construction of the sediment control facilities.

#### Spills and Non-Storm Water Contingencies

All fueling and washing of equipment and vehicles for this project will be performed within the property boundary. In the event of any accidents occurring on this project that result in any spills or release of any hazardous substance, the Contractor will immediately notify the National Response Center (800-424-8802) and the Tennessee Emergency Management Agency (800-262-3300); as well as the Knoxville Office of Environmental Assistance Center (865-594-6035). In the event of such spills, the Contractor will prepare a revision to this document in order to identify measures to prevent the reoccurrence of such releases.

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#### **Owners Certifications**

# Principal Owner / Applicant:Walker Truck Contractors, Inc.P.O. Box 6159Knoxville, TN 37914865-933-0225Contact Person: Ray Walker - Owner

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Representative of Owner / Applicant and title ( print or type)	Signature (must be signed by President, V.P or equivalent, or ranking elected official)	Date
Ray Walker - Owner		

#### **Contractor Certification**

# Primary Contractor:Walker Truck Contractors, Inc.P.O. Box 6159Knoxville, TN 37914865-933-0225Contact Person: Ray Walker - Owner

I certify under penalty of law that I have reviewed this document and any attachments. Based on my inquiry of the construction site owner/developer identified above, and/or my inquiry of the person directly responsible for assembling this Storm Water Pollution Prevention Plan, I believe the information submitted is accurate. I am aware that this plan, if approved, makes the above-described construction activity subject to NPDES permit number INR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements.

Representative of Owner / Applicant and title ( print or type)	Signature (must be signed by President, V P. or equivalent, or ranking elected official)	Date
Ray Walker - Owner		

Walker Truck Contractors, Inc. Rutledge Pike, Knox County, Tennessee

#### **Owners Certifications**

# Principal Owner / Applicant:Walker Truck Contractors, Inc.P.O. Box 6159Knoxville, TN 37914865-933-0225Contact Person: Ray Walker - Owner

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Representative of Owner / Applicant and title ( print or type)	Signature (mast be signed by President, V.P. or equivalent, or ranking elected official)	Date
Ray Walker - Owner	Bog stacks	8-27-18

#### **Contractor Certification**

Primary Contractor:	Walker Truck Contractors, Inc.
	P.O. Box 6159
	Knoxville, TN 37914
	865-933-0225
	Contact Person: Ray Walker - Owner

I certify under penalty of law that I have reviewed this document and any attachments. Based on my inquiry of the construction site owner/developer identified above, and/or my inquiry of the person directly responsible for assembling this Storm Water Pollution Prevention Plan, I believe the information submitted is accurate. I am aware that this plan, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements.

Representative of Owner / Applicant and title ( print or type)	or ranking elected officialy	Date
Ray Walker - Owner	Ray Walks	<u>8-77-10</u>

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