# Hollywood Ready Mix Concrete Facility 43850 Airport View Drive, Hollywood, MD 20636

## STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

In compliance with: General Permit No. MDG499999 National Pollution Discharge Elimination System (NPDES)

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### February 2020

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### I. Introduction

#### a. SWPPP Purpose

This Storm Water Pollution Prevention Plan (SWPPP) has been developed as requirement of the National Pollution Discharge Elimination System (NPDES) program for regulating storm water discharge form industrial facilities. Development, proper implementation and dedicated monitoring of the SWPPP will allow the Hollywood Ready Mix Concrete Facility [herein known as the Hollywood facility for the purposes of this report] to control pollutants and comply with all established regulations. The primary purpose of this SWPPP is to:

- 1) Identify potential sources of pollution that may reasonably be expected to affect the quality of storm water discharges from the site,
- 2) Describe the practices that will be used to reduce pollutants in storm water discharges to assure compliance with the conditions of the Permit, and
- 3) Establish an implementation schedule to ensure that the proposed plan is properly implemented while monitoring the plan's effectiveness in meeting the design goals.

#### b. SWPP Content

The following components are included in this SWPPP:

- Description of the facilities and existing conditions
- Description of potential storm water contaminations
- Description of measure to be taken and Best Management Practices (BMP's) to be implemented
- Description of the monitoring and inspection plan to be implemented
- Identification of a SWPPP coordinator, SWPPP team members and the responsibilities involved, and
- Description of the requirements for permit compliance.

### II. Facility Description

a. Facility Location

The Hollywood Facility is located at 43850 Airport View Drive, Hollywood, Maryland 20636 and is within St. Mary's County boundaries. The facility operates on a section of land within an industrial area off route 5. **Figure 1** is a general vicinity map of the area.

b. Site Description

The Hollywood Facility is bordered by Airport View Drive and Commerce Ave. To the north is a manufacturing facility and to the west is a wooded area.

On-site structures include a main office building and storage garage, small storage sheds, batch plant equipment, washout basins, a settling basin, a recycled concrete storage area, aggregate bins, vehicle parking areas, and a fueling area. **Figure 2** is a facility sketch of existing conditions, illustrating pertinent on-site structures and includes approximant drainage zone locations,

patterns of storm water drainage and locations of any discharge points. The discharge points are located west of the site entrance adjacent to Airport View Dr.

### c. Site Activities

The Hollywood Facility is classified as a code 3273 under the 1987 Standard Industrial Classification (SIC) guild lines and as code 327320 under the 2002 North American Industry Classification System (NAICS). Normal operating hours are 7am to 5pm and there is an average of ten full-time employees on schedule with approximately ten trucks operating out of this facility on a regular basis.

### d. Existing Drainage and Discharge Conditions

On-site drainage is controlled through stormwater management basins and collection basins. A pH water treatment system is utilized to monitor and treat collected process water. The site can be divided to create two main drainage zones, DZ-1 and DZ-2. **Figure 2** is a facility sketch of existing conditions that includes zone locations, patterns of storm water drainage and locations of any discharge. These are approximate locations based on a review of site conditions and an evaluation of mapping and aerial photos. A majority of site drainage flows north to south. Some water is recycled and used for concrete batching, dust suppression, aggregate cooling in summer months, and truck washing.

DZ-1 represents the eastern section of the site and includes the aggregate bins, truck parking, and stormwater management basins. Water flows along the curb to the stormwater management basins adjacent to Airport View Dr. Where it then is transferred via pipe under the site entrance into the swale leading to the final stormwater management basin in DZ-2 where the site's discharge point (DP-1) is located.

DZ-2 represents the western portion of the site and includes the drum wash/treatment basins, fueling station, office, storage garage, batch plant, and additional parking. Site grading and curbs direct stormwater to the drum wash basins for treatment. Truck washout occurs in the southern portion of DZ-2. After releasing excess concrete into the designated collection area, trucks release drum washout into a primary basin. Upon initial solid settling, this water flows through a series of three basins until it ultimately ends up in the final treatment basin. This basin has a large volume holding capacity. The pH levels are treated with a Fortrans Model 5000b Water Treatment System before discharging into the swale leading to the final stormwater management basin and Discharge Point 1 (DP-1).

**Figure 2** is a facility sketch of existing conditions that depicts typical patterns of storm water drainage and locations of any discharge. Additional information about each drainage zone and discharge point can be found in **Table 1**.

### III. Potential Storm Water Contaminants

#### a. Material Inventory

**Table 2** identifies materials that are used, stored or produced on-site that may contribute to storm water pollution. A physical description and the probable storm water pollutants are included. This SWPPP is focused on limiting the pollution from these sources.

b. Spill and Leak History

There are no records of any spills or leaks of any material in this facility within the past three years.

c. Potential Areas for Storm Water Contamination

The following core areas with potential for storm water contamination were considered in the development of this SWPPP:

- <u>Truck Loading Area</u>: This includes a loading system (hopper, conveyor and mixer) and is located adjacent to the facility office. Contamination may occur through leaking trucks and equipment or spills from overloaded trucks.
- <u>Truck Washout Area</u>: Contamination may occur in this area through an increase of pH in collected waters and potential for increased sediment build-up.
- <u>Fueling Station:</u> This area includes a fueling station in the western portion of the property. Contamination may occur in this area through improper fueling or leaking trucks and equipment.
- <u>Office/Storage Garage:</u> This building serves as a storage area for materials such as admixtures and general site materials and also contains the site office. Contamination may occur through fluid leaks from stored materials and excess runoff from the adjacent loading area.
- <u>Treatment/Settling Basins</u>: This area is a collection point for storm and process water and may cause overflow contamination if filled to capacity.
- <u>Admixture/Truck Wash Chemical Storage</u>: Several large tanks are stored onsite. They contain cleaners, detergents and concrete admixtures. Proper spill containment is implemented.
- <u>Stockpile Materials:</u> Several mounds of stockpile material (sand, stone, etc.) are located on site. Contamination may occur in these areas through sediment runoff.

**Table 1** includes site-specific information regarding storm water pollution potential from these areas.

### d. Emergency Contact Information

Any chemical or oil spill will be recorded on standard inspection forms (**Appendix B**). In the event of an emergency spill, the Maryland Department of the Environment 24 hr Emergency Spill Hotline (410-974-3551) and the National Response Center at (1-800-424-8802) will be contacted. In the event of a spill situation, a standard spill response procedure will be followed (**Appendix A**). This procedure and emergency contact information will be visible and readily available in the site office

### IV. Storm Water Management (SWM) Control Measures

This section will detail existing SWM control measures and proposed controls that will be implemented to comply with permit requirements. All Best Management Practices (BMPs) used as control measures in this project were selected to meet or exceed EPA and local requirements. **Table 3** contains specific information and a schedule for target implementation of these control measures. **Figure 2** is a facility sketch of proposed control measures depicting approximate locations of implementation.

### a. Site Evaluation of Existing Control Measures

The following is a list of effective control measures that are currently in place at the Monumental Ready Mix Facility:

- <u>Truck Washout Basins:</u> Effective washout basins are in place in DZ-2. Trucks release excess material in a designated area and then wash down drums and release that into a concrete basin that is regularly inspected and cleaned out.
- <u>Holding/Treatment Basin:</u> pH treatment and additional settling occur in this basin prior to discharge into the swale leading to the final stormwater basin and DP-1.
- <u>Fortrans Model 5000b Water Treatment System</u>: This water treatment system monitors the pH level of collected water and utilizes Carbon Dioxide to lower pH and help solids settle to the bottom of the basin.
- <u>Curb & Gutters/Catch Drains and Settling Basins:</u> A series of curbs, gutters, and a drain strip along the site entrance direct drainage to appropriate treatment areas.
- b. Implementation of Proposed SWM Control Measures

The following is a list of appropriate control measures that will be implement at the Monumental Ready Mix Facility:

- <u>Fueling Station:</u> The fueling station and propane tank will be inspected monthly for potential leak hazards and any changes will be implemented immediately. All trucks that use the fueling station are equipped with spill kits in the event of a spill.
- <u>Truck Washout Basins:</u> The existing washout and collection basins will be thoroughly inspected weekly for potential problems and appropriate measures will be taken to ensure they are functioning as designed.
- <u>Treatment Basin</u>: The treatment basin will be inspected weekly for potential problems and appropriate measures will be taken to ensure it is functioning as designed.
- <u>Fortrans Model 5000b:</u> Components of the system will be inspected on a monthly basis to ensure proper functioning. pH will be checked daily on the system and by hand in the treatment basin to ensure probe's accuracy.
- <u>Stormwater Management Basins:</u> The stormwater collections areas will be checked monthly for sediment build-up and effectiveness. Basins will be cleaned of accumulated sediments as needed depending on weather and site activity.
- <u>Material Storage:</u> Any fluid canisters (truck oil, grease) housed on-site will be kept of out contact with storm water and will remain covered when not in use. Any partially used, bagged material will be transferred to a sealable container and properly labeled. Items such as brooms, dust pans, plastic gloves, kitty litter and extra sealable containers will be on-site at all times.
- <u>Stock Piles:</u> All stock piles will be consolidated and employees will ensure that there is no sediment, sand/or aggregate leaving the appropriate holding areas. These areas will be inspected twice a day and re consolidated when needed.

- <u>Equipment Inspections</u>: Vehicles and equipment will be inspected for fluid leaks and any other potential pollutants to storm water. All vehicles and equipment will receive regular preventative maintenance to reduce the chance of fluid leakage.
- <u>General Housekeeping</u>: General good housekeeping measures will be implemented into a routine schedule to promote site compliance.
- <u>Air Pollution:</u> Gray water from the Treatment Basin will be utilized in controlling dust in the yard and on the aggregate stockpiles. A sweeper truck will be used if necessary on site entrances.

### V. Facility Monitoring Plan

#### a. Routine Inspections

Routine inspections will be conducted throughout the site to decrease the likelihood of a potential pollution situation. The basins will be inspected by plant staff weekly and monthly by the Environmental Project Manager. The Fortrans Treatment System will be checked daily for pH readings and water flow. A monthly check will ensure components are in good working order. The fueling station, storage areas, and all other pollution prevention implementations will be inspected monthly for cleanliness and effectiveness. As directed by the SWPPP Coordinator, an Environmental Evaluation team has been assigned to conduct visual observations no less than one time each month (in some months twice). Inspection forms will be completed and kept in the on-site file. A sample inspection form can be found in **Appendix B and Appendix C.** 

### b. Fortrans Model 5000b Water Treatment System Monitoring

The Fortrans Model 5000b Water Treatment System that is located in the Treatment Basin will be inspected on a daily basis. The Plant manager or approved on-site personnel will ensure that the unit is turned on and is functioning correctly. The digital pH reading that is displayed will be recorded digitally in the Dispatch software. Carbon Dioxide tank refills will be scheduled as needed.

c. SWPPP Updates and Amendments

Any changes to operating conditions of the Hollywood Facility that require modification of existing BMPs or implementation of new BMPs will be recorded in the on-site file for insertion into an updated SWPPP. This SWPPP shall be amended to include any change in design, construction, operation, or maintenance of the facility that has a significant effect on the potential for the discharge of pollutants to surface waters and that has not been addressed in the normal implementation of the SWPPP. This SWPPP shall also be updated whenever it is found to be ineffective in meeting the requirements of the NPDES Permit and any other applicable regulatory guidelines. In the event that the Maryland Department of the Environment (MDE} notifies the SWPPP Coordinator that the SWPPP does not meet one or more of the provisions of the NPDES Permit or any other applicable regulatory guidelines, changes will be made within a timeframe approved by the MDE.

### VI. SWPPP Implementation Task Force

### a. SWPPP Coordinator

The SWPPP Coordinator for Hollywood Facility: Victor Vilece Cell Phone: 301-861-6094.

b. SWPPP Coordinator Responsibilities

The SWPPP Coordinator will be responsible for the following:

- Manage the SWPPP team in the implementation of the SWPPP plan
- Assign inspection duties
- Oversee employee training
- Ensure regulatory compliance of site activities
- Measure overall effectiveness of SWPP implementation
- Address any site operation changes with appropriate SWPPP modifications
- c. SWPPP Implementation Task Force Team Members

The following team members will assist the SWPPP Coordinator in all aspects of the SWPPP implementation:

•	Jeff Slagle	Concrete Operations Manager	301-399-2224
•	Chris McCov	Safety Director	240-299-7172

Chris McCoy Safety Director
TBD Plant Manager

### VII. Compliance Requirements

a. On-site Record Retention

A copy of the most recently updated version of this SWPPP will be retained in the onsite office. Copies of completed inspection forms will also be kept on-site for reference purposes. Additionally, all employee training records and certifications shall be made readily available.

b. Employee Training

An annual environmental education seminar will be incorporated into ongoing employee training protocol to educate employees about the pollution prevention issues relating to this SWPPP. Employees will be introduced to the requirements of the SWPPP and will be instructed on how to monitor the implemented BMPs for maximum effectiveness. Training will be completed online. After the seminar has been administered, the SWPPP Coordinator (or designated SWPPP team member) will evaluate the environmental education program to verify its effectiveness, implement any appropriate changes and complete an evaluation form. A sample evaluation form can be found in **Appendix E**.

c. Annual SWPPP Compliance Assessment

A designated SWPPP team member will conduct an annual compliance assessment to ensure that the facility is complying with all requirements detailed in this SWPPP. All BMPs and E&S controls said to be in place will be inspected, adherence to the inspection schedule will be verified and a confirmation of an active employee training program will be made. An assessment report will be completed, and a copy of the assessment will be kept on record. A sample assessment form can be found in **Appendix F.** 

#### d. Corporate Certification

"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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

<u>Victor Vilece</u> Name 6/8/2020

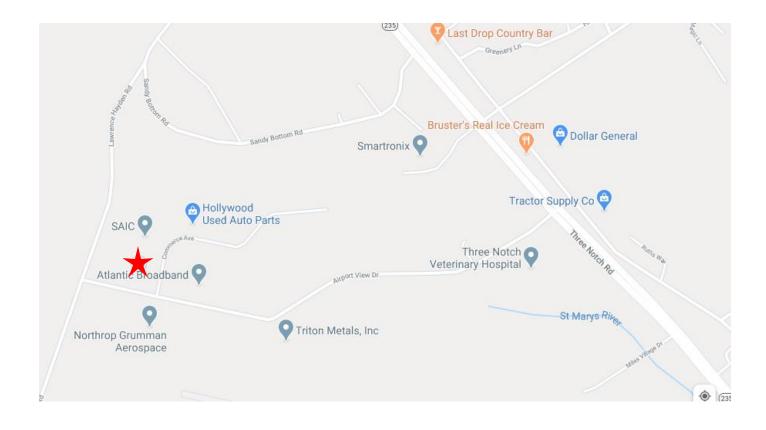
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Signature

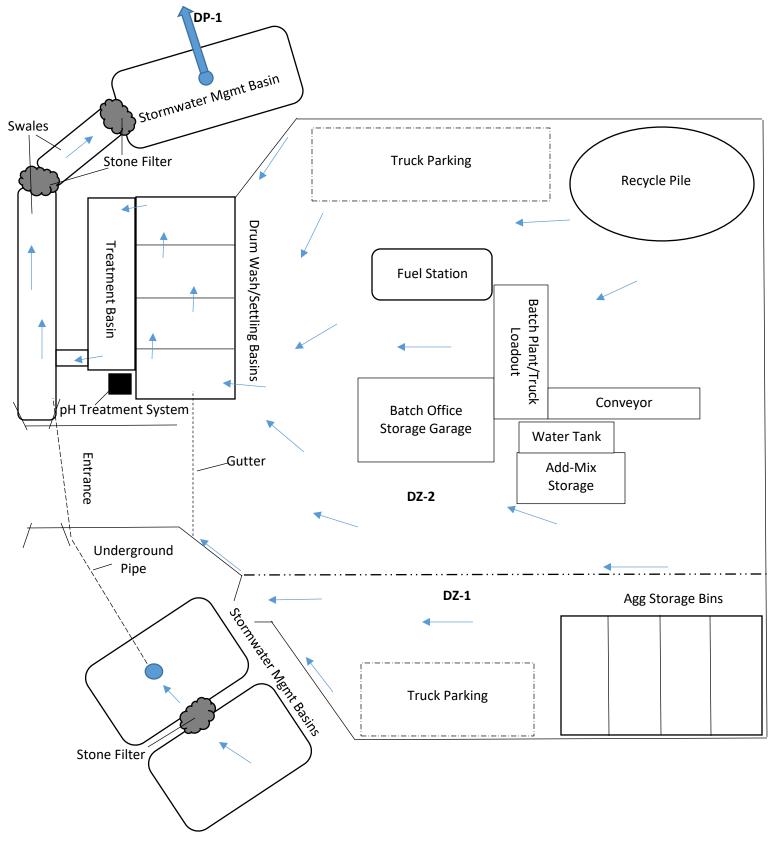
<u>Chaney Enterprises</u> Company

Environmental Project Manager Title

# FIGURE 1 <u>GENERAL VICINITY MAP</u>



## FIGURE 2 FACILITY SKETCH



### Table 1

### EXISITING STORM WATER DRAINAGE AND DISCHARGE POINTS

DRAINAGE ZONE/	STORM WATER DRAINAGE	POTENTIAL	POTENTIAL PROBLEMS
DISCHARGE POINTS	DESCRIPTION	POLLUTION	
	Site grading and curbs direct	Gasoline, Diesel	Diesel fuel/fluids may leak from
DZ-1	stormwater from the eastern	Fuel, Hydraulic	trucks and equipment. Improper
	portion of the site into the	Oil/Fluids,	containment of aggregates.
	Stormwater Management Basins.	Sediment	
	Drainage from the batch plant, fuel	Gasoline, Diesel	Diesel fuel/fluids may leak from
	station, truck wash, and recycle pile	Fuel, Hydraulic	trucks and equipment. High pH
	is collected and treated for TSS in a	Oil/Fluids,	water may be discharged without
D7-2	five (5) tier basin system. pH is	Sediment, High pH	being treated. Improper loading
02-2	treated by a Fortrans Model 5000b	Water	may result in sediment discharge.
	located in the fifth basin, prior to		Overflow from collection basin
	discharge into a swale that runs		may result.
	along the western border of the site.		
	This discharge point is located just	Gasoline, Diesel	Discharge water with high pH is
	outside the Stormwater	Fuel, Hydraulic	the main concern in this area.
DP-1	Management Basin on the western	Oil/Fluids,	Trucks releasing washout water
	edge of the site. A pipe stand directs	Sediment, High pH	that could potentially be
	water from the basin to the outfall.	Water	discharged before being treated.

## Table 2

## **MATERIAL INVENTORY**

TRADE NAME MATERIAL	PHYSICAL DESCRIPTION	STORM WATER POLLUTANTS
Cleaning Solvents	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene, chloride, trichloroethylene, petroleum distillates
Waste Water	Clear or gray	Oil, grease, concrete
Concrete	White or gray solids	Limestone, sand
Sand, Gravel	Solid particles	Silicon, suspended solids, turbidity, sediment
Hydraulic oil/fluids	Brown oily petroleum hydrocarbon	Mineral oil
Gasoline	Colorless, plae brown pr pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE
Diesel Fuel	Clear, blue-green to yellow liquid	Petroleum distillate, oil & grease, naphthalene, xylenes
Kerosene	Pale yellow liquid petroleum hydrocarbon	Coal oil, petroleum distillates
Antifreeze/coolant	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)
Polarset	Light green, clear liquid	Calcium Bromide, Calcium Nitrate, Diethyle Gycol, Methyldiethanolamine, Calcium Nitrite
Daracel	Blue liquid with turbidity	Naphthalenesulfonic acid, polymer with formaldehyde

## TABLE 3

## **BMP INSPECTION SCHEDULE**

BMP	SWM CONTROL MEASURE	TARGET IMPLEMENTATION DATE
Fueling Station	Spill Kit	Checked during monthly CEEIP inspection.
	Inspect fuel/propane tanks and containment areas.	Check for signs of leaks during monthly CEEIP inspection.
Drum Wash/Treatment Basins	Inspect for sediment accumulation and effectiveness at settling out of solids.	Checked daily, pump sediments every 6 months or as needed.
Stormwater Management Basins	Inspect for sediment accumulation and effectiveness at settling out of solids.	Basins might have to be cleaned by a contractor annually depending on sediment accumulation.
Gutter	Inspect for sediment accumulation.	Inspect daily, clean as needed.
Fortrans Model 5000b Water Treatment System	Inspect that system is functioning properly. Check for flow of water and adequate CO2.	Inspect daily for functionality.
	CO2 Tank	Check rubber lines for leaks, and tank for CO2 level Daily when checking pH.
	Pump	Inspect daily and clean a minimum of once a week.
	pH Probe	Clean weekly, or when hand held probe does not match reading. Calibration is done monthly during CEEIP inspection.
DP-1	Outfall Structure	pH taken daily, recorded in dispatch software and on BMP Check List.
Equipment Inspections	On-site vehicles and equipment will be inspected for fluid leaks and other potential pollutants.	Drivers and equipment operators will check daily during pre-trip inspections.
General Housekeeping	Aggressive enforcement of good housekeeping measures will be implemented.	Enforced daily.

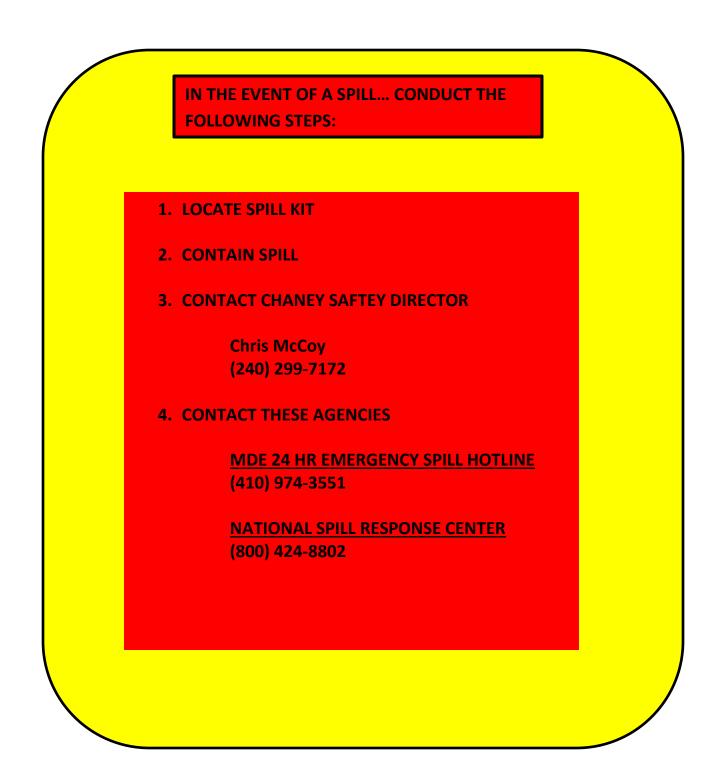
## TABLE 4

## **SWM CONTROL MEASURES IMPLEMENTATION SCHEDULE**

FACILITY SITUATION	SWM CONTROL MEASURE	TARGET IMPLEMENTATION DATE
Fueling Station	Check for complete spill kit at fueling station	Daily
	Inspect fuel/propane tanks and containment areas for cracks & leaks.	Daily
Stormwater Management Basins	Inspect basins for effectiveness & make any necessary changes.	Monthly
Collection/Treatment Basins	Inspect for effectiveness. Clean out if needed.	Monthly
Fortrans Model 5000b Water Treatment System	Inspect that system is functioning properly.	Daily
	Check CO2 levels	Daily
	Clean pH probes	Monthly
	Calibrate pH probe	Monthly
Equipment Inspections	On-site vehicles and equipment will be thoroughly inspected for fluid leaks and other potential pollutants.	Daily
	Preventative maintenance will be performed on a regular schedule.	Monthly/As Needed
General Housekeeping	Aggressive enforcement of good housekeeping measures will be implemented.	Daily

### **APPENDIX A**

### **EMERGENCY CONTACT INFORMATION**





### Appendix B I. General Information

#### **CEEIP Inspection Form**

Facility:			Permit #:			
Date:	Time:	Weather:		Phone:		
Facility			Site			
Address:			Manager:			
Inspector:						

#### **II. Site Conditions** SWPPP On Site: Yes $\Box$ No $\Box$ DMR's On Site: Yes 🗌 No 🗔 Condition Range **Comments/Corrections Needed** Good Fair Poor Great E & S Control **On-Site Storage** Equipment/ Vehicles Roadways **Air Pollution** Discharge Discharging: Y / N Monitoring pH:

### Additional Comments on Site Conditions:

### III. pH Treatment System

	Questions	Answer	Site Corrections:	
Washout/Settling	Have washout basins/ponds been cleaned recently?			
Ponds	What is the pH in the settling area w/handheld probe?			
	What is the pH reading upon arrival?			
pH Controller	What is the Hi limit reading?			
	What is the Lo limit reading?			
	How much CO2/Sodium bisulfate is in the tank?			
Mixing	Does additional chemical need to be added/ tank filled?			
	Were site personal informed?			
	Is probe covered in residue and dirty?		Due Date:	
pH Probe	Was probe cleaned with cleaning solution?		Days 1wk 2wk 3wk	
	What are readings before/after calibration with solution 7.0?			
	What are readings before/after calibration with solution 10.0?			
Piping	Is intake piping functional?			
	Is discharge piping functional?		Sign:	
Comments on pH System Conditions:				
Inspector				
Name:	Signature:		Date:	

2410 Evergreen Road | Suite 201 | Gambrills, Maryland 21054

WEB ChaneyEnterprises.com PHONE 888-424-2639

Storm Water Pollution Prevention Plan Hollywood Ready Mix Concrete Facility

## APPENDIX C Stormwater BMP Inspection Log

\*pH is now recorded electronically via the dispatch software.\*

Date	Time	Entrance Grate	Curbs/Swales	Drum Wash/Treatment Stormwater Mgmt		
Dute	mile		curbs/swales	Basins	Basins	Inspector
		Last Cleaned:	Last Cleaned:	Last Cleaned:	Last Cleaned:	
		Condition:	Condition:	Condition:	Condition:	
		Last Cleaned:	Last Cleaned:	Last Cleaned:	Last Cleaned:	
		Condition:	Condition:	Condition:	Condition:	
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## APPENDIX D ENVIRONTMENTAL EDUCATION SEMINAR SIGN-IN SHEET

Date	Employee Name	Employee Signature

## APPENDIX E ENVIRONTMENTAL EDUCATION SEMINAR EVALUATION FORM

Program Feature	Applicable? (Y/N)	Comments
Has a date been established for the annual seminar?		
Will all state and federal regulations be addressed?		
Will employees be informed of any changes to the SWPPP?		
Will there be any outside sources involved in the training program?		
Did the facility staff appear more informed after last year's program?		
Have there been any employee comments/suggestions?		
Name:		Date:
Signature:		
Title:	_	

## APPENDIX F SWPPP COMPLIANCE ASSESSMENT

SWPPP Feature	Y/N	Comments
Have monthly CEEIP inspections been conducted and have form been completed and filed?		
Have daily pH readings been taken and have logs been completed?		
Have BMP inspection schedules been followed and forms filled out?		
Has employee training been implemented?		
Has the Environmental Education Program been evaluated and forms filed?		
Have all changes to site function been addressed in the SWPPP?		
Name:		Date:
Signature:		
Title:		

### APPENDIX G

## SWPPP MODIFICATIONS

Date	Comments	Signature