Extended Dry Basin Operation and Maintenance Plan

Trash and Debris Visual evidence of tash, debris or Dispose of properly and Debris dumping Contamination and Every expension and Every expension of the pollution of cords of contamination and Every expension of the pollution of cords of signs of contamination and Every expension of the pollution of cords of signs of contamination and Every expension of the pollution of cords of signs of contamination and Every expension of the pollution of cords of the pollution of the pollutio	inspection and mainter more information.	inspection and maintenance activities, and may be used as an inspection log. Contact the design engineer, Clean Water Services or City representative for more information.	in inspection log. Contact the design	า engineer, Clean Water Serv	ices or City representative for
Uspose of properly dumping or other pollutants. Look for sheens, odor or signs of contamination or other pollutants. Look for sheens, door or signs of contamination of or other pollutants. Look for sheens, and pakes of contamination and or other pollutants. Look for sheens, and pakes of contamination and or other pollutants. Look for sheens, and pakes of contamination of oil such as lumcus effuses, (soft rush) if high beels of contaminants or pollutants are present, coordinate removal deanup with local jurisdiction Nightshade, Clematis, Cattail, Thistle, Remove excessive weeds and all massive plants. Attempt to control Red Canary Grass, Teasel, English Ivy, Nightshade, Clematis, Cattail, Thistle, Scotch Broom Adenial such as vegetation, trash, of inlet/outlet pipe or basin opening and no bare areas large enough to affect function of facility. Benove excessive weeds and all massive plants. Attempt to control methods, including proper use of chemical treatment proper use of chemical treatment (1-inch in 24 hours) Remove excessive weeds and all massive plants per the approved blanting plant sper the approved blanting plan and applicable Remove excessive weeds and all massive plants. Determine countrol methods, including proper use of chemical treatment (1-inch in 24 hours) Remove excessive weeds and all massive plants per the approved blants per the approved blanting plant and applicable Remove excessive weeds and all massive plants. Determine control methods and applicable Remove excessive weeds and all massive plants. Determine control methods of plant is spo	Identified Problem	Condition to Check for	Maintenance Activity	Maintenance Timing	Task Complete Comments
egetation as correct Remove of using oil-absorbent odor or signs of contaminants, correct. Remove oil using oil-absorbent odor or signs of contamination of signs of contamination of oil such sequents of contamination of oil such as Juncus effuses, (soft rush) if high levels of contaminants or pollutants are present, coordinate removal/clearup with local jurisdiction Read Canary Grass, Faasel, English Ivy, Red Canary Grass, Faasel, English Ivy, Remove blockages from facility and no bare areas large enough to standards at time of construction. Remove excessive weeds and all invasive plants, English Ivy, Remove blockages from facility affect function of facility. Remove excessive weeds and all invasive plants is sported.	Trash and Debris	Visual evidence of trash, debris or dumping	Remove trash and debris from facility. Dispose of properly	SUMMER FALL	
Examples include: Himalayan Blackberry, Red Canary Grass, Teasel, English Ivy, Nightshade, Clematis, Cattail, Thistle, Scotch Broom Material such as vegetation, trash, sediment is blocking more than 10% of inlet/outlet pipe or basin opening and no bare areas large enough to affect function of facility. Bowen if complete eradication is not feasible; refer to Clean Water Services Integrated Pest Management Plan for appropriate control methods, including proper use of chemical treatment Remove blockages from facility and correct the condition. Replant with plugs or containerized plants per the approved planting plan and applicable standards at time of construction. Remove excessive weeds and all invasive plants.	Contamination and Pollution	Evidence of oil, gasoline, contaminants, or other pollutants. Look for sheens, odor or signs of contamination	Locate source of contamination and correct. Remove oil using oil-absorbent pads or vactor truck. If low levels of oil persist plant wetland plants that can uptake small concentrations of oil such as Juncus effuses. (soft rush) If high levels of contaminants or pollutants are present, coordinate removal/cleanup with local jurisdiction		
Material such as vegetation, trash, sediment is blocking more than 10% of inlet/outlet pipe or basin opening 80% survival of approved vegetation and no bare areas large enough to affect function of facility. Remove excessive weeds and all invasive plants.	Invasive vegetation as outlined in Appendix A.	Invasive vegetation found in facility. Examples include: Himalayan Blackberry, Reed Canary Grass, Teasel, English Ivy, Nightshade, Clematis, Cattail, Thistle, Scotch Broom	Remove excessive weeds and all invasive plants. Attempt to control even if complete eradication is not feasible; refer to Clean Water Services Integrated Pest Management Plan for appropriate control methods, including proper use of chemical treatment		
80% survival of approved vegetation and no bare areas large enough to affect function of facility. affect function of facility. approved planting plan and applicable standards at time of construction. Remove excessive weeds and all invasive plants.	Obstructed Inlet/Outlet	Material such as vegetation, trash, sediment is blocking more than 10% of inlet/outlet pipe or basin opening	Remove blockages from facility	winter spring Inspect after major storm (1-inch in 24 hours)	
	Poor Vegetation Cover	80% survival of approved vegetation and no bare areas large enough to affect function of facility.	Determine cause of poor growth and correct the condition. Replant with plugs or containerized plants per the approved planting plan and applicable standards at time of construction. Remove excessive weeds and all invasive plants.	SPRING FALL Ideal time to plant is spring and fall seasons	

Extended Dry Basin Operation and Maintenance Plan (continued)

Annual inspections are required. It is recommended that the facility is inspected on a monthly basis to ensure proper function. The plan below describes inspection and maintenance activities, and may be used as an inspection log. Contact the design engineer, Clean Water Services or City representative for

for Maintenance Activity Maintenance Timing 🗸 Task Complete Comments	water piping Repair facility if damaged. Remove As Needed int holes. Harmful harmful insects, use professional if s wasps and needed. Refer to Clean Water Services with management options Repair facility if damaged. Remove As Needed As Needed	des out wetland/ sun from reaching treatment area. for maintenance/ maintenance/ linefering with access or local City Prune trees and shrubs that block sun from reaching treatment area. WINNTER WINDER Ideal time for pruning is winter Interfering with access or maintenance Without first contacting Clean Water Services or local City	or diseased trees Remove hazard trees. A certified As Needed Arborist may need to determine health of tree or removal requirements	ed emergent clippings. Prune emergent wetland interferes with grass/shrubs that have become ire danger overgrown. Cut tall grass 4" to 6" and remove spring. Cut spring. Cut grass in dry months	ion that impacts Repair eroded areas and stabilize of the facility or using proper erosion control measures. Establish appropriate
Condition to Check for	Evidence of rodents or water piping Rep through facility via rodent holes. Harmful harr insects present such as wasps and hornets that interfere with maintenance/ inspection activities mar	Tree/shrub growth shades out wetland/ sun emergent grass in treatment area. Interferes with access for maintenance/ Do inspection inspection Services	Observed dead, dying or diseased trees Arb	Vegetation grows so tall that it competes with approved emergent clipp wetland grass/shrubs, interferes with access or becomes a fire danger over	Erosion or channelization that impacts or effects the function of the facility or creates a safety concern
Identified Problem	Vector Control	Tree/Shrub Growth	Hazard Trees	Excessive Vegetation	Erosion



Extended Dry Basin Operation and Maintenance Plan (continued)

Annual inspections are required. It is recommended that the facility is inspected on a monthly basis to ensure proper function. The plan below describes inspection and maintenance activities, and may be used as an inspection log. Contact the design engineer, Clean Water Services or City representative for more information.	nce Timing 🖊 Task Complete Comments		winter spring Inspect after major storm (1-inch in 24 hours)	winter spring inspect after major storm (1-inch in 24 hours)	winter spring Inspect after major storm (1-inch in 24 hours)	SUMMER FALL Ideally in the dry season
ueu) y basis to er n engineer,	Maintenance Timing	As Needed	winter spail inspect after major s (1-inch in 24 hours)	winter spring the property of	WINTER SPRI Inspect after major s (1-inch in 24 hours)	SUMME SUMME Ideally in the (
nd INIAIIILEHIAIICE FIAII (CONTINUEU) nded that the facility is inspected on a monthly basis used as an inspection log. Contact the design engir	Maintenance Activity	Repair dike/berm to approved design specifications. A licensed civil engineer should be consulted to determine the source of the settlement	Remove blockage. Small root system (base less than 4 inches) may be left in place; otherwise, roots are removed. A licensed civil engineer should be consulted for proper berm/spillway restoration.	Restore rock and pad depth to appropriate depth. Refer to design specifications	Inspect and if needed clear orifice plate for proper drainage or re-install to ensure required detention.	Remove sediment from pond bottom. Re-establish designed pond shape and depth. Establish appropriate vegetation in treatment area
Exterioed Dry basin Operation and ING Annual inspections are required. It is recommended that inspection and maintenance activities, and may be used as more information.	Condition to Check for	Look for any part of dike/berm that has settled 4 inches or more lower than the design elevation	Blockage of overflow/ spillway by trees, vegetation or other material. Blockages may cause the berm to fail due to uncontrolled overtopping	Native soil is exposed at the spillway, or there is only one layer of rock in an area of 5 square feet or larger	Excessive standing water or water is not detained for required time.	Sediment accumulation in pond bottom exceeds 6 inches or affects facility inlet/ outlet or plant growth in treatment area
Annual inspections are inspection and maintens more information.	Identified Problem	Settlement of Pond Dike/ Berm	Blockage of Emergency Overflow/ Spillway	Erosion of Emergency Overflow/Spillway	Blockage of Overflow Structure/ Orifice Plate	Sediment Accumulation in Pond Bottom

Extended Dry Basin Operation and Maintenance Plan (continued)

Annual inspections are required. It is recommended that the facility is inspected on a monthly basis to ensure proper function. The plan below describes

Identified Problem	Condition to Check for	Maintenance Activity	Maintenance Timing	✓ Task Complete Comments
Grate Damaged, missing or not in place	Grate is missing or only partially in place, may have missing or broken grate members.	Grate must be in place and meet design standards. Replace or repair any open structure, replace grate if missing	As Needed	
Damage to Outlet Structure	Damage to Frame or Top Slab. Frame not sitting flush on top slab (more than 34 inch between frame and top slab); frame not securely attached	Ensure frame is firmly attached and sits flush on the riser rings or top slab	As Needed	
Damage to Outlet Structure	Fractures or Cracks in Walls or Bottom. Maintenance person determines the structure is unsound. Soil entering structure through cracks.	Structure replaced or repaired to design standards.	As Needed	
Damage to Outlet Structure	Settlement or Misalignment of Basin. Failure of basin has created a safety, function, or design problem	Structure replaced or repaired to design standards	As Needed	

