AGREEMENT FOR STORM WATER SYSTEM MAINTENANCE

This Agreement is made on May 8th 2017 by SSRP Properties, LLC, a Michigan limited liability company, of 2665 W. Hickory Grove Road, Bloomfield Hills, MI 48302. ("Developer"), and the CITY OF ROCHESTER HILLS (the "City"), whose address is 1000 Rochester Hills Drive, Rochester Hills, MI 48309.

WHEREAS, Developer owns and proposes to develop the Property described in attached Exhibit A; and

WHEREAS, the proposed development of the property will alter the natural flow of surface and storm water drainage; and

WHEREAS, Developer has proposed, and the City has approved, a storm drainage and detention system (the "System") comprised of storm water detention and water quality treatment facilities and devices, storm water pipe, catch basins, manholes, and swales for the Property as described and depicted in the Storm Water System Plan attached as Exhibit B; and

WHEREAS, the parties will benefit from the proper operation, use and maintenance of the System and enter into this agreement to provide for the same.

THEREFORE, the parties agree to:

1. Use of the System:

Components of the System, including any and all water conveyance, detention and water quality treatment facilities and devices, storm sewer pipe, catch basins, manholes, and swales, shall be used solely for the purpose of conveying, detaining and treating storm surface drainage on the property until such time as: (i) The City determines and notifies Developer or Developer's successors, grantees or assigns, in writing, that it is no longer necessary to convey, detain or treat the storm and surface drainage; and (ii) An adequate alternative for conveying, detaining and treating storm and surface drainage has been provided which is acceptable to the City and which includes the granting of any easements to the City or third parties as may be required or necessary for the alternative drainage system.

2. Maintenance:

- A. Developer shall be responsible for the proper maintenance, repair and replacement of the System and all parts thereof as detailed in the Maintenance Plan attached as Exhibit C.
- B. Proper maintenance of the System shall include, but is not limited to: (i) Removing accumulated sediment, trash and debris from the detention system and at inlet pipes; (ii) Maintaining storm sewer and structures;
 - (iii) Controlling the effects of erosion; (iv) Inspection and cleaning of the water quality treatment device;
 - (v) Inspection of inlet and outlet pipes for structural integrity; (vi) Inspection and cleaning of storm sewer and catch basins upstream from the detention system; and (vii) Any other maintenance that is reasonable and necessary to facilitate and continue the proper operation and use of the System.

3. Action by the City:

If, at any time, Developer of Developer's successors, grantees of assigns neglect of fail to properly maintain the System or any part thereof, the City may notify Developer or Developer's successors, grantees or assigns. The notice shall be in writing and shall list and describe maintenance deficiencies and demand that they be corrected within thirty (30) days.

The notice shall further specify a date and place of a hearing to be held at least fourteen (14) days after the date of the notice before the City Council, or such other board or official as the City may designate. At the hearing, the City Council (or other designated board or official) may affirm or modify the list and description of maintenance deficiencies and, for good cause shown, may extend the time for the deficiencies to be corrected.

Thereafter, if the maintenance deficiencies are not corrected within the time allowed, the City may undertake the necessary corrective actions, and the City may maintain the system for up to one (1) year. Such maintenance of the System by the City shall not be construed to be a trespass or a taking of the Property, nor shall the City's actions vest in the public any right to enter or use the Property. Thereafter, if Developer of Developer's successors, grantees or assigns do not properly maintain the System, the City may, after providing similar written notice, schedule and hold another hearing to determine whether the City should maintain the system for another year, and subject to a similar notice, hearing and determination in subsequent years.

In the event the city determines an emergency condition caused by or relating to the System threatens the public health, safety or general welfare, the City shall have the right to immediately and without notice enter the Property and undertake appropriate corrective action.

4. Charges:

The City shall charge the current owner of the Property the cost of the maintenance of other corrective action undertaken by the City under the agreement, plus a ten percent (10%) administrative fee. If not timely paid, the City may place the charges on the City's tax roll, which charges shall be a lien on the real property and shall be collectable and enforceable. In the same manner, general property taxes are collected and enforced.

5. Notice:

Any notices required under the agreement shall be sent by certified mail to the address for each party set forth below, or to such other addresses as such party may notify the other parties in writing

To SSRP Properties, LLC:

2665 W. Hickory Grove Road Bloomfield Hills, MI 48302 Attention: Sandeep Chada

To the City:

City Clerk

City of Rochester Hills 1000 Rochester Hills Drive Rochester Hills, MI 48309

6. Successors and Assigs:

This agreement shall bind and inure to the benefit of the parties and their respective successors, grantees and assigns. The benefits burdens, rights, and obligations and responsibilities hereunder shall run with the land and shall bind all current and future owners of the Property and any divisions thereof.

7. Recording of Agreement:

Drafted By: Reese Serra, ESQ

City Clerk

This agreement shall be recorded at the Oakland County Register of Deeds.

SSRP Properties, LLC A Michigan Limited Liability Company By: Sandeep Chada Its: Manager CITY OF ROCHESTER HILLS Bryan Barnett, Mayor Tina Barton, Clerk STATE OF MICHIGAN COUTNY OF OAKLAND This agreement was acknowledged before me on _____MAY /OR 12017 , by Sandeep Chada, Manager of SSRP Properties, LLC a Michigan Limited Liability Company, on behalf of the Company. uuuu OAKLAND County, Michigan My Commission expires: 05 14 2017 STATE OF MICHIGAN COUNTY OF OAKLAND This agreement was acknowledged before me on by Bryan Barnett, Mayor, and Tina Barton, Clerk, of the City of Rochester Hills, on behalf of the City. 805 Oakwood Drive Ste. 111 , Notary Public Rochester, MI 48307 unty, Michigan ly commission expires: When Recorded Return to: VANESSA S KNUDSEN City of Rochester Hills Notary Public - Michigan 1000 Rochester Hills, MI 48309 Macomb County My Commission Expires May 14, 2017 Acting in the County of Office Acting John Steran Approved 5/23/17

CITY OF ROCHESTER HILLS

		Ву:	Bryan K. Barnett, Mayor
:		Ву:	Tina Barton, Clerk
STATE OF MICHIGAN COUNTY OF OAKLAND	} }SS }		
This agreement was acknow	vledged before m	ne on	, 2017
by Bryan K. Barnett, Mayor,	and Tina Barton	, Clerk of the	City of Rochester Hills, on behalf of
the City.			
			, notary public
			County, Michigan
]	My commission	on expires:

EXHIBIT A

820 E. Auburn Rd., Rochester Hills, MI 48307

LEGAL DESCRIPTION OF PROPERTY:

The land referred to in this Commitment, situated in the County of Oakland, City of Rochester Hills, State of Michigan, is descried as follows:

Parcel 1:

North 210.90 feet of Lot 2, except the East 238.70 feet of SUPERVISOR'S AVON TOWNSHIP PLAT NO.7 according to the plat thereof recorded in Liber 12 of Plats, Page 59 of Oakland County Records.

Parcel 2:

That part of the Bendelow Road Right of Way, lying in SUPERVISOR'S AVON TOWNSHIP PLAT NO. 7. A RESUBDIVISION OF LOTS 53 AND 54 OF BROOKLANDS as recorded in Liber 12, Page 59 of Plats, Oakland County Records, and being part of the Northeast 1/4, Section 35, Town 3 North, Range 11 East more particularly described as: Commencing at the Northwest Corner of Lot 2, SUPERVISOR'S AVON TOWNSHIP PLAT NO.7, thence along a curve to the right following the east Right of Way line of Bendelow Road 29.10 feet, (Radius 1586.50 feet, central angle 1 degree 03 minutes 03 seconds, chord bears South 19 degrees 02 minutes 56 seconds East 29.10 feet), to a Point of Beginning, said point being on a line parallel to and 60 feet south of the north line of Section 35; thence continuing along said Right of Way 196.03 feet (Radius 1586.50 feet, central angle 12 degrees 58 minutes 26 seconds, chord bears South 14 degrees 59 minutes 01 seconds East 195.91 feet); thence North 87 degrees 13 minutes 47 seconds West 51.61 feet to the east line of Country Club Village of Rochester Hills Condominium (Liber 33863, Page 746, Oakland County Records); thence following said line along a non-tangent curve to the left 81.00 feet (Radius 1536.50 feet, central angle 7 degrees 07 minutes 18 seconds, chord bears North 13 degrees 26 minutes 17 seconds West 80.98 feet) to the east Right of Way of Graham Drive; thence North 88 degrees 28 minutes 00 seconds East 5.00 feet; thence North 02 degrees 50 minutes 10 seconds East 99.08 feet; thence North 47 degrees 50 minutes 10 seconds East 13.25 feet to the Point of Beginning.

#15-35-226-001

mike Taunt Approved 5/3/17

STORM WATER MAINTENANCE AGREEMENT AUBURN ROAD SITE 35 SOUTH BLVD. AUBURN RD. (66 FT WIDE) NORTH 1/4 CORNER SECTION 35 T.3N., R.11E. AVON TOWNSHIP OAKLAND COUNTY MICHIGAN L. 14992, P.099 O.C.R GRAHAM DR. (60 FT WIDE) ONSITE STORM SEWER SYSTEM PRE-TREATMENT DEVICE, CONTECH CDS2015-4-C-538323-01 **UNDERGROUND** RETENTION SYSTEM mike Taunt Approved 9/12/17 GODDARD SCHOOL STORM SYSTEM MAINTENANCE RESPONSIBILITY ≡ GRAND TRAVERSE ENGINEERING, LLC. THE GODDARD SCHOOL Civil Engineering PO Box 227 Traverse City, MI 49685-0227 Phone: 231-218-4986 SECTION 35, T03N, R11E, AVON TOWNSHIP ROCHESTER HILLS, OAKLAND COUNTY, MICHIGAN Planning Surveying

Email: jeff@gtengineeringtc.com

GRAND TRAVERSE

Construction Services

SHT 1 of 1

EXHIBIT B

EXHIBITC

OPERATIONS AND MAINTENANCE MANUAL

INTRODUCTION:

This manual identifies the ownership, operation, and maintenance responsibilities for all stormwater management systems, including the underground storm sewer system, and the stormwater treatment structure and device as incorporated into and detailed on the approved Site Construction Plans as prepared by APEX Engineering, Inc. In order to comply with the local best management practices (BMP) and requirements, this manual should serve as a minimum performance standard. This manual should be retained intact and read in its entirety by all parties responsible for the operations and maintenance of the on-site BMP's.

PROPERTY OWNER:

Sandeep and Swapna Chada The Goddard School - Rochester Hills 2665 W. Hickory Grove Rd. Bloomfield, MI 48302 Phone: 248-710-2100

Fax:

E-mail: RochesterHillsMI@goddardschools.com

PROPERTY MANAGER:

Sandeep Chada The Goddard School - Rochester Hills 805 Oakwood Dr. Rochester, MI 48307 Phone: 248-710-2100

Fax:

E-mail: RochesterHillsMI@goddardschools.com

PROPERTY INFORMATION:

This Operations and Maintenance Manual covers the stormwater system located at the following subject property:

LEGAL DESCRIPTION OF PROPERTY:

The land referred to in this Commitment, situated in the County of Oakland, City of Rochester Hills, State of Michigan, is descried as follows:

<u>Parcel 1:</u>

North 210.90 feet of Lot 2, except the East 238.70 feet of SUPERVISOR'S AVON TOWNSHIP PLAT NO.7 according to the plat thereof recorded in Liber 12 of Plats, Page 59 of Oakland County Records.

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Way 196.03 feet (Radius 1586.50 feet, central angle 12 degrees 58 minutes 26 seconds, chord bears South 14 degrees 59 minutes 01 seconds East 195.91 feet); thence North 87 degrees 13 minutes 47 seconds West 51.61 feet to the east line of Country Club Village of Rochester Hills Condominium (Liber 33863, Page 746, Oakland County Records); thence following said line along a non-tangent curve to the left 81.00 feet (Radius 1536.50 feet, central angle 7 degrees 07 minutes 18 seconds, chord bears North 13 degrees 26 minutes 17 seconds West 80.98 feet) to the east Right of Way of Graham Drive; thence North 88 degrees 28 minutes 00 seconds East 5.00 feet; thence North 02 degrees 50 minutes 10 seconds East 99.08 feet; thence North 47 degrees 50 minutes 10 seconds East 13.25 feet to the Point of Beginning.

STORMWATER MAINTENANCE EXHIBIT:

Exhibit "B" of the Stormwater Maintenance Agreement is the stormwater system plan which provides a clear presentation of all components of the stormwater system. This system is subject to the long-term operation and maintenance responsibilities detailed in this manual. The system includes:

- Storm sewer pipes
- Storm sewer structures (manholes, and catch basins)
- Roof drain pipes and cleanouts
- Pre-Treatment Device (Contech CDS2015-4-C-538323-01)
- Underground Detention System
- Outlet Control Structure

INSPECTIONS:

The frequency of system inspections outlined in the manual and attached exhibits should be considered the minimum, if no events warrant additional inspections. The frequency of inspections should be fine-tuned over time as system specific conditions are better known and the rate at which certain maintenance operations need to be performed is better understood. Maintenance Inspection Checklists are provided for each of the BMP's in this system. Inspections should be performed by personnel responsible for maintenance and may need to be certified for confined space entry, depending on the component being inspected. Operation of outlet control structures and pre-treatment devices may need to be inspected by a practicing civil engineer familiar with their operation.

Records of all routine inspections and any work performed on the system for maintenance, repair, or replacement should be maintained by the Owner and kept for a minimum of ten (10) years. A copy of all records should be provided to the City of Rochester Hills Engineering plans and as-built documents, a maintenance log of work performed to the system(s) and contact information for the system inspector, civil engineer, landscape architect, geotechnical engineer, and contractor involved with the system.

STORMWATER SYSTEMS MAINTENANCE:

Regular inspection and maintenance of BMP's are necessary if these facilities are to consistently perform up to expectations. Stormwater systems are expected to perform quality and quantity control functions as long as the land use they serve exists. Failure to maintain these systems can create the following adverse impacts:

- Increased pollutants to surrounding surface water features
- Potential bodily injury and/or loss of life or property damage resulting from catastrophic failure of the facility
- Aesthetic or nuisance conditions, such as mosquitoes or reduced property values due to a degraded facility condition
- Noxious or unpleasant odors
- Flooding
- Loss of site use and business

Most of these impacts can be avoided through proper and timely inspection and maintenance. A major concern associated with these impacts is the general public's expectations related to the quality of life provided, in part, by construction of these systems. Inadequate maintenance means the general public may have a false sense of security. The most common cause of stormwater system failure is the lack of adequate and proper operation, inspection, maintenance, and management.

Good design and construction can reduce subsequent maintenance needs and costs, but they cannot eliminate the need for maintenance altogether. Maintenance requires a long-term commitment of time, money, personnel, and equipment. Monitoring the overall performance of the stormwater management system is a major aspect of any maintenance program. The maintenance responsibilities for these systems lie with the current property owner and transfer with the property in perpetuity. If maintenance of the system is not performed, the City of Rochester Hills reserves the right to enter the property and perform all necessary work at the property owner's cost. Refer to the *Agreement for Storm water System Maintenance* for additional details.

General Maintenance Items:

Parking Lot Sweeping:

Routine sweeping of all paved surfaces provides a more attractive appearance and removes accumulations of sediment and trash that tend to migrate into stormwater management systems during rainfall events. Parking lot sweeping should be performed quarterly or as necessary to limit sediment and trash build up.

Grass Mowing and Maintenance:

Mowing requirements at a facility should be designed to the specific site conditions, grass types and seasonal variations in climate. Grassed areas require periodic fertilizing, de-thatching and soil conditioning in order to maintain healthy growth. Provisions will need to be made to reseed and reestablish grass cover in areas damaged by sediment accumulation, stormwater flow, erosion or other causes. Dead turf will need to be replaced after being discovered. Inspection of the grass areas and other landscaping features should be made annually.

Trash and Debris Removal:

Removal of trash and debris from all areas of the property should be performed monthly. Removal of these items will prevent damage to vegetated areas and eliminate their potential to enter or inhibit the operation of any of the stormwater management systems. Sediment, debris, and trash that are removed and collected should be disposed of according to Local, State, and Federal regulations at suitable disposal and/or recycling centers.

Stormwater System Maintenance Items:

The following narratives give an overview of the maintenance requirements of the different components of the stormwater system. The inspection checklists attached to this report offer a more complete listing of what should be inspected, when inspection should occur and the likely frequency of maintenance activities.

Storm Sewer and Structures:

Catch basins, inlets, manholes, and sewer pipes should be inspected to check for sediment accumulation and clogging, floatable oil or grease, floatable debris, sticks, stones, wood, cups, dead vegetation, and any other debris. The structures and sewer should also be observed during a wet weather event to ensure their proper operation. Accumulated sediment and debris should be removed on an annual basis or as needed based on observed conditions. Structural repairs or maintenance should occur as needed

based on observed conditions such as cracks, spalling, joint failure, leakage, misalignment or settlement of structures. A civil engineer should be retained if problems are thought to exist.

Stormwater Pre-Treatment Device (Contech):

Refer to the attached maintenance manual from Contech Engineered Solutions for all inspection and maintenance requirements for the Contech system.

<u>Underground Stormwater Detention System (Contech):</u>

Refer to the attached maintenance manual from Contech Engineered Solutions for all inspection and maintenance requirements for the Contech CMP Detention system.

Checklists:

The following page includes an inspection checklist for the various devices and components listed above. A written record of all required inspections shall be made as stipulated in the checklist. All written inspection documents shall be properly organized and filed, and they shall be readily accessible.

STORMWATER SEWER SYSTEM INSPECTION CHECKLIST

Date/Time of Inspection: Inspector:					***		
		ATER					STEM HEDULE
MAINTENANCE ACTIVITIES	SYSTEM COMPONENTS	Storm Collection System (Sewers, Swales, Catch Basins, Manholes)	Manufactured Treatment System	Underground Detention System	Flow Restrictor Structure & Outlet Pipe	Pavement Areas	FREQUENCY
Monitoring / Inspection							
Inspect for Sediment Accumulation/Cloggi Inspect For Floatables, Dead Vegetation 8	ng	X	X	<u>X</u>	X	Х	As Needed / Semi - Annually
Debris	x	X	Х	Х	Х	Х	Annually & After Major Events
Inspect For Erosion And Integrity of Syste	m	X				Х	Annually & After Major Events
Inspect All Components During Wet weather & Compare			Х	Х	Х	х	Annually
Ensure Maintenance Access Remain Open/Clear		Х	Х	Х	Х	Х	Annually
Preventive Maintenance		1	1		L		
Remove Accumulated sediments			Х	Χ	Х	Χ	As Needed, select areas only
Remove Floatables Dead Vegetation & Debris		Х				Х	
Sweeping of Paved Surfaces						Χ	As Needed / Semi-Annually
Remedial Action		X				V 1	
Repair/Stabilize Areas of Erosion Replace Dead Plantings \$ Reseed Bare Areas.			-			Х	As Needed As needed
Structural Repairs		X	X	Х	Х	Х	1
Make Adjustments/Repairs to Ensure Proper		X	X		X	X	An Nandad
Functioning							
SUMMARY: Inspector's Remarks:			1011				
Overall Condition of Facility:							
Recommended Actions Needed:							
Dates Any Maintenance Must Be Completed By:							



CDS® Inspection and Maintenance Guide





Maintenance

The CDS system should be inspected at regular intervals and maintained when necessary to ensure optimum performance. The rate at which the system collects pollutants will depend more heavily on site activities than the size of the unit. For example, unstable soils or heavy winter sanding will cause the grit chamber to fill more quickly but regular sweeping of paved surfaces will slow accumulation.

Inspection

Inspection is the key to effective maintenance and is easily performed. Pollutant transport and deposition may vary from year to year and regular inspections will help ensure that the system is cleaned out at the appropriate time. At a minimum, inspections should be performed twice per year (e.g. spring and fall) however more frequent inspections may be necessary in climates where winter sanding operations may lead to rapid accumulations, or in equipment washdown areas. Installations should also be inspected more frequently where excessive amounts of trash are expected.

The visual inspection should ascertain that the system components are in working order and that there are no blockages or obstructions in the inlet and separation screen. The inspection should also quantify the accumulation of hydrocarbons, trash, and sediment in the system. Measuring pollutant accumulation can be done with a calibrated dipstick, tape measure or other measuring instrument. If absorbent material is used for enhanced removal of hydrocarbons, the level of discoloration of the sorbent material should also be identified during inspection. It is useful and often required as part of an operating permit to keep a record of each inspection. A simple form for doing so is provided.

Access to the CDS unit is typically achieved through two manhole access covers. One opening allows for inspection and cleanout of the separation chamber (cylinder and screen) and isolated sump. The other allows for inspection and cleanout of sediment captured and retained outside the screen. For deep units, a single manhole access point would allows both sump cleanout and access outside the screen.

The CDS system should be cleaned when the level of sediment has reached 75% of capacity in the isolated sump or when an appreciable level of hydrocarbons and trash has accumulated. If absorbent material is used, it should be replaced when significant discoloration has occurred. Performance will not be impacted until 100% of the sump capacity is exceeded however it is recommended that the system be cleaned prior to that for easier removal of sediment. The level of sediment is easily determined by measuring from finished grade down to the top of the sediment pile. To avoid underestimating the level of sediment in the chamber, the measuring device must be lowered to the top of the sediment pile carefully. Particles at the top of the pile typically offer less resistance to the end of the rod than consolidated particles toward the bottom of the pile. Once this measurement is recorded, it should be compared to the as-built drawing for the unit to determine weather the height of the sediment pile off the bottom of the sump floor exceeds 75% of the total height of isolated sump.

Cleaning

Cleaning of a CDS systems should be done during dry weather conditions when no flow is entering the system. The use of a vacuum truck is generally the most effective and convenient method of removing pollutants from the system. Simply remove the manhole covers and insert the vacuum hose into the sump. The system should be completely drained down and the sump fully evacuated of sediment. The area outside the screen should also be cleaned out if pollutant build-up exists in this area.

In installations where the risk of petroleum spills is small, liquid contaminants may not accumulate as quickly as sediment. However, the system should be cleaned out immediately in the event of an oil or gasoline spill should be cleaned out immediately. Motor oil and other hydrocarbons that accumulate on a more routine basis should be removed when an appreciable layer has been captured. To remove these pollutants, it may be preferable to use absorbent pads since they are usually less expensive to dispose than the oil/water emulsion that may be created by vacuuming the oily layer. Trash and debris can be netted out to separate it from the other pollutants. The screen should be power washed to ensure it is free of trash and debris.

Manhole covers should be securely seated following cleaning activities to prevent leakage of runoff into the system from above and also to ensure that proper safety precautions have been followed. Confined space entry procedures need to be followed if physical access is required. Disposal of all material removed from the CDS system should be done in accordance with local regulations. In many jurisdictions, disposal of the sediments may be handled in the same manner as the disposal of sediments removed from catch basins or deep sump manholes.



CDS Model	* * * * * * * * * * * * * * * * * * *		Distance from Water Surface Sediment to Top of Sediment Pile Storage Capacity				
	ft	m	ft	m	yd3	m3	
CDS2015-4	4	1.2	3.0	0.9	0.9	0.7	
CDS2015	5	1.5	3.0	0.9	1.3	1.0	
CDS2020	5	1.5	3.5	1,1	1.3	1.0	
CDS2025	5	1.5	4.0	1.2	1.3	1.0	
CDS3020	6	1.8	4.0	1.2	2.1	1.6	
CDS3030	6	1.8	4.6	1.4	2.1	1.6	
CDS3035	6	1.8	5.0	1.5	2.1	1.6	
CDS4030	8	2.4	4.6	1.4	5.6	4.3	
CDS4040	8	2.4	5.7	1.7	5.6	4.3	
CDS4045	8	2.4	6.2	1.9	5.6	4.3	
CDS5640	10	3.0	6.3	1.9	8.7	6.7	
CDS5653	10	3,0	7.7	2.3	8.7	6.7	
CDS5668	10	3.0	9.3	2.8	8.7	6.7	
CDS5678	10	3.0	10.3	3.1	8.7	6.7	

Table 1: CDS Maintenance Indicators and Sediment Storage Capacities



- Drawings and specifications are available at www.contechstormwater.com.
- Site-specific design support is available from our engineers.

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Contech Engineered Solutions LLC provides site solutions for the civil engineering industry. Contech's portfolio includes bridges, drainage, sanitary sewer, stormwater, earth stabilization and wastewater treament products. For information, visit www.ContechES.com or call 800.338.1122

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The product(s) described may be protected by one or more of the following US patents: 5,322,629; 5,624,576; 5,707,527; 5,759,415; 5,788,848; 5,985,157; 6,027,639; 6,350,374; 6,406,218; 6,641,720; 6,511,595; 6,649,048; 6,991,114; 6,998,038; 7,186,058; 7,296,692; 7,297,266; 7,517,450 related foreign patents or other patents pending.



CDS Inspection & Maintenance Log

Location:

Date	Water depth to sediment ¹	Floatable Layer Thickness ²	Describe Maintenance Performed	Maintenance Personnel	Comments
TOP OF THE STATE O					

^{1.} The water depth to sediment is determined by taking two measurements with a stadia rod: one measurement from the manhole opening to the top of the sediment pile and the other from the manhole opening to the water surface. If the difference between these measurements is less than the values listed in table 1 the system should be cleaned out. Note: to avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile.

^{2.} For optimum performance, the system should be cleaned out when the floating hydrocarbon layer accumulates to an appreciable thickness. In the event of an oil spill, the system should be cleaned immediately.