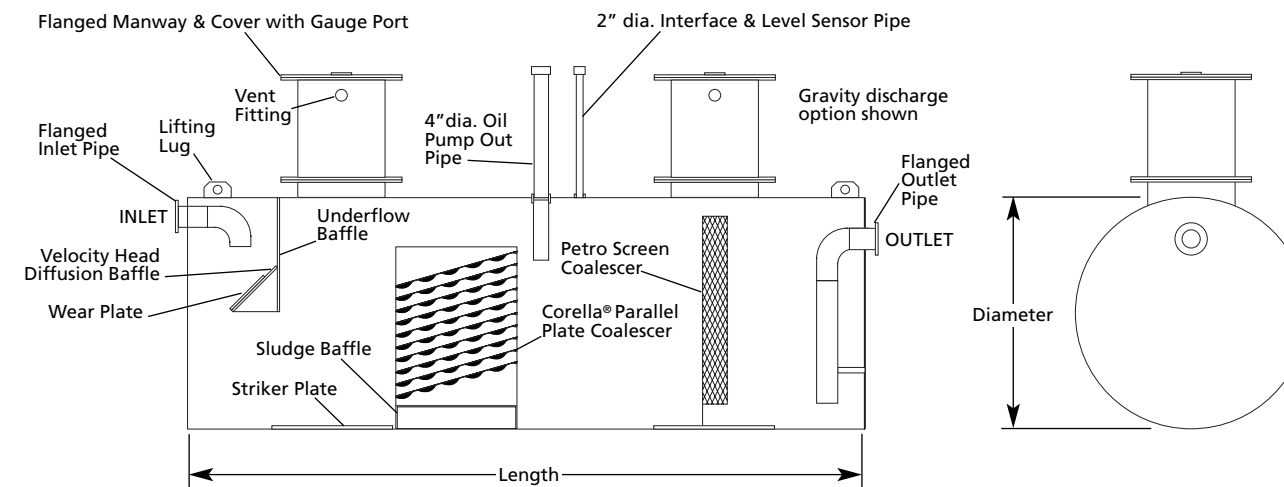
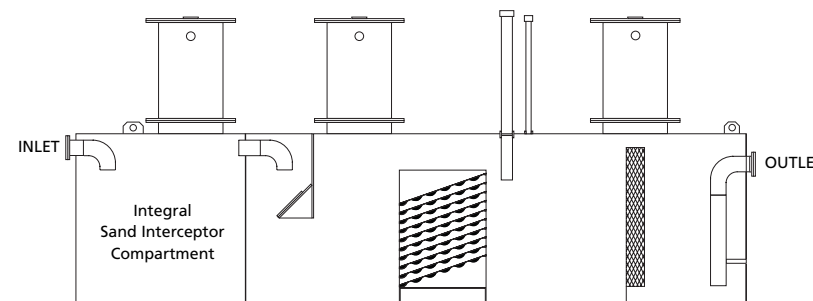


## Pre-Engineered Design Options



### Series G

Oil/water separators feature an integral sand interceptor compartment to permit sand and gravel to settle out before the wastewater enters the oil/water separator.



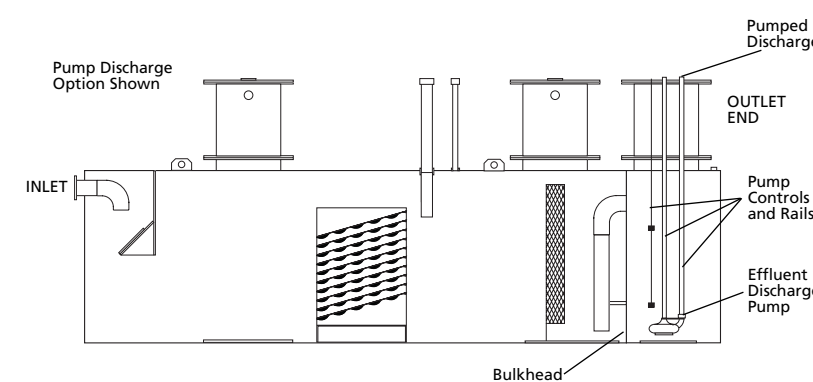
### Cylindrical Separator Sizing Guide

Model HTC or HT	Flow Rate Gal/Min	Total Volume Gallons	Recommended Oil Pump-out Gallons	Dimensions		Inlet & Outlet Diameter
				Diameter	Length	
350	35	350	70	3'-6"	6'-0"	4"
550	55	550	110	3'-6"	7'-9"	4"
1,000	100	1,000	200	4'-0"	10'-9"	6"
2,000	200	2,000	400	5'-4"	12'-0"	6"
3,000	300	3,000	600	5'-4"	18'-0"	8"
4,000	400	4,000	800	5'-4"	28'-8"	8"
5,000	500	5,000	1,000	6'-0"	23'-10"	8"
6,000	600	6,000	1,200	6'-0"	28'-8"	10"
7,000	700	7,000	1,400	7'-0"	24'-4"	10"
8,000	800	8,000	1,600	7'-0"	28'-0"	10"
9,000	900	9,000	1,800	8'-0"	24'-0"	12"
10,000	1,000	10,000	2,000	8'-0"	26'-8"	12"
12,000	1,200	12,000	2,400	8'-0"	32'-0"	12"
15,000	1,500	15,000	3,000	10'-0"	25'-6"	14"
20,000	2,000	20,000	4,000	10'-6"	31'-0"	16"
25,000	2,500	25,000	5,000	10'-6"	38'-9"	18"
30,000	3,000	30,000	6,000	10'-6"	46'-6"	20"
40,000	4,000	40,000	8,000	12'-0"	47'-6"	24"
50,000	5,000	50,000	10,000	12'-0"	59'-6"	24"
60,000	6,000	60,000	12,000	13'-0"	60'-6"	24"

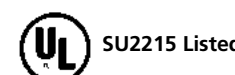
Plate spacing and orientation may vary depending on site. Custom sizing is available. Consult Highland Tank for Series G, J oil/water separator sizing guides.

### Series J

Oil/water separators have an integral effluent pump-out compartment with level controls. The pumped effluent can be routed through Highland's Advanced Filtration System to further reduce the oil content.



U.S. Patents - 4,722,800, 5,520,825 & 6,605,224  
 Canadian Patents - 1,325,179, 1,296,263 & 2,389,065



One Highland Road Stoystown, PA 15563 814-893-5701 FAX 893-6126	4535 Elizabethtown Road Manheim, PA 17545 717-664-0600 FAX 664-0617	958 19th Street Watervliet, NY 12189 518-273-0801 FAX 273-1365	2700 Patterson Street Greensboro, NC 27407 336-218-0801 FAX 218-1292	2225 Chestnut Street Lebanon, PA 17042 717-664-0602 FAX 664-0631	1510 Stoystown Road Friedens, PA 15541 814-443-6800 FAX 444-8662
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# Cylindrical Oil/Water Separators

Unparalleled In Performance



Highland Tank provides you with the strongest and most reliable oil/ water separators in the industry.

Our separators are designed to remove oil, grease, light petroleum products, and oily coated solids from a variety of wastewater discharges. They are typically installed in industrial areas and receive oily wastewater generated during processes such as bulk petroleum storage and handling, aircraft and vehicle fueling, maintenance, washing, and environmental remediation of petroleum contaminated sites. The effluent from oil/water separators is typically discharged to either a storm or sanitary sewer system.

Our high-efficiency oil/water separators are recommended for a wide range of industrial applications, such as:

- Airports & Aircraft Services
- Electric Utilities and Power Plants
- Environmental Remediation
- Industrial Facilities
- Military & Government Facilities
- Municipalities
- Petroleum Production & Marketing Facilities
- Railroad Yards
- Transportation Companies

They are also located in vehicle service areas associated with each of these facilities :

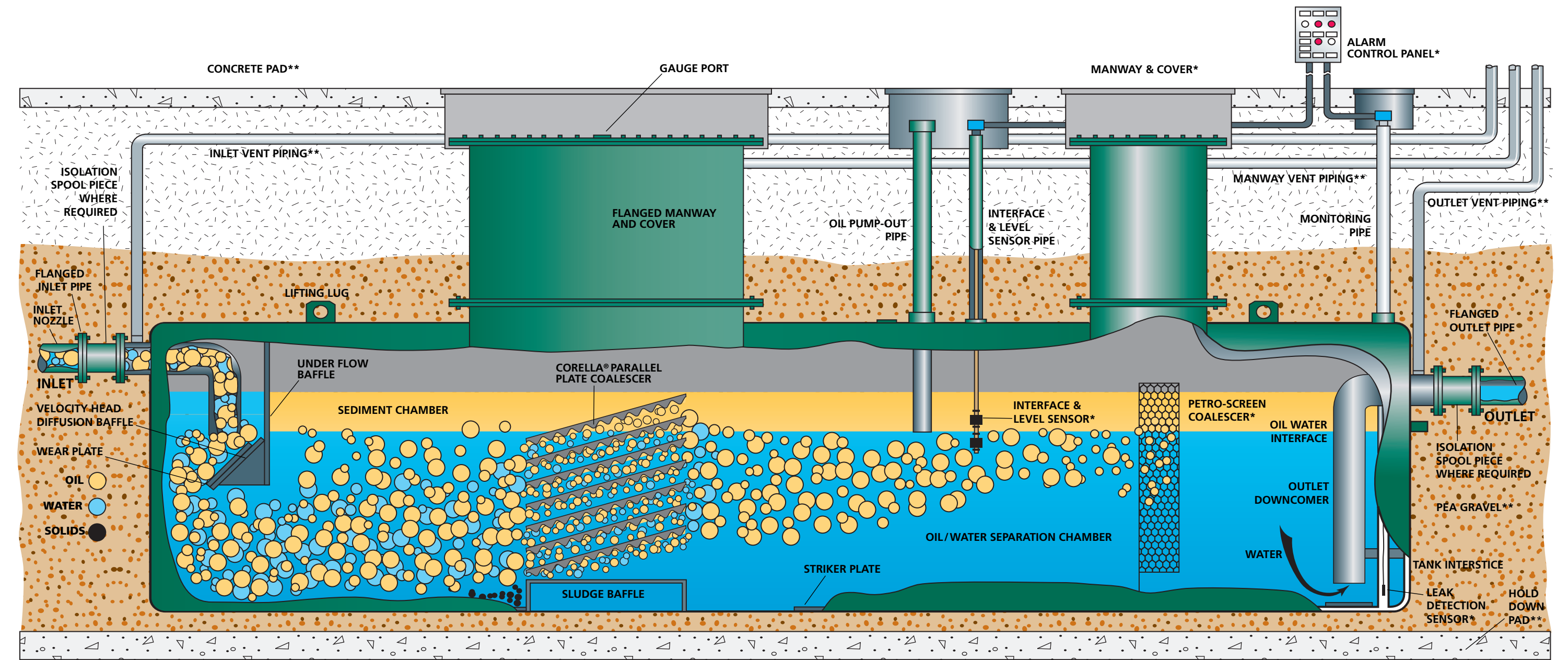
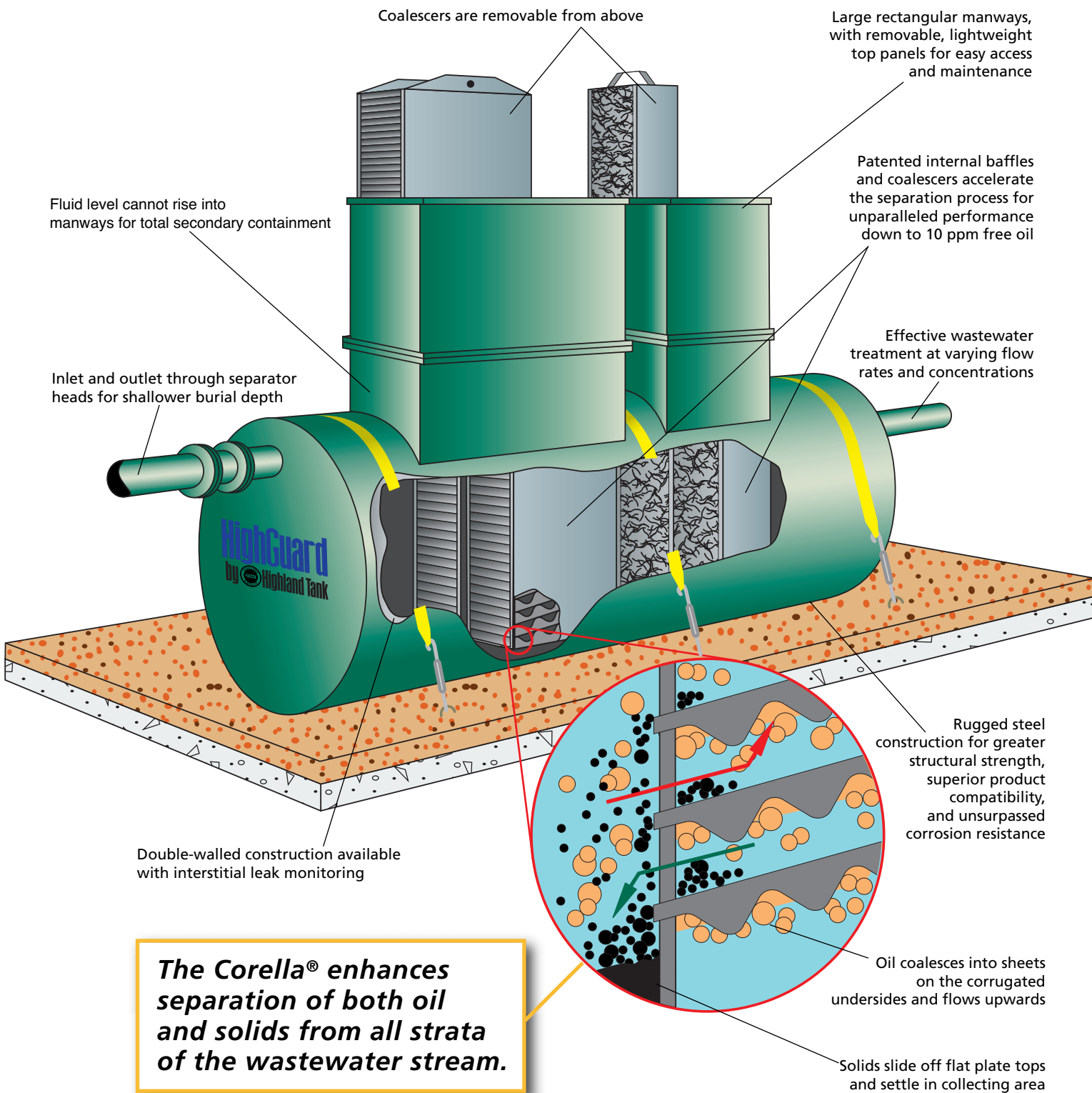
- Fueling Facilities
- Repair and Maintenance Shops
- Wash Areas

Highland oil/water separators set the standard for reliability. Our separators are highly efficient - treating wastewater under a wide range of conditions. Unlike other oil/water separators, they are easy to install, operate, and maintain.

Highland's new Corella® is a remarkable product that combines the features of both a flat plate and a corrugated plate coalescer into a new "self-cleaning" design that performs better than traditional plate coalescers.

Why is Corella® important to an oil/water separator customer? The primary reason for oil/water separator failure is clogging of the coalescers with solids that lead to extensive shutdown and expensive maintenance of the separator.

The Corella® solves the problem of separator failure due to clogging because the plates are constructed and arranged to allow solids to slide off the top of the plates while allowing for the coalescence of oil on the bottom of the plates.



\* Optional equipment available from Highland Tank \*\* Installer supplied equipment

Model HTC Oil/Water Separator with EZ-Access Option shown

**Proven Technology**

Highland separators can be designed to handle high flow rates and remove oils with a specific gravity up to .95. API-421 design criteria can be employed to engineer a separator to the specified wastewater flow rate, temperature, oil globule size, and specific gravity of oil and wastewater. Effluent quality down to 10 ppm has been consistently demonstrated on our high performance Model HTC UL-SU2215 labeled oil/water separators.

**How It Works...**

Highland's patented oil/water separators are stationary wastewater treatment tanks, filled with water. They contain specially designed internal baffles and coalescers to accelerate the separation process.

The tank is designed to allow for convenient access for inspection and maintenance from above. Inlet flow is directed against the velocity head diffusion baffle to reduce flow turbulence and to dis-

tribute the flow evenly over the separator's cross-sectional area. In the sediment chamber, heavy solids settle out and concentrated oil rises to the surface. The oily water then passes through the Corella® coalescer. The corrugated underside of the Corella® plates causes the oil to coalesce into sheets. The oil globules then rise to the surface of the separation chamber, where the separated oil accumulates. Any remaining solids

sink to the top of the plates and slide off to the solids collection area. The effluent flows downward to the outlet and is discharged by gravity displacement. To intercept droplets of oil too minute to be removed by the Corella® coalescer, we use a Petro-Screen polypropylene impingement coalescer (an encased bundle of layered oil-attracting fibers). Electronic oil level controls sound an alarm at high oil levels so that waste oil can be re-

moved from the separator. Double-walled separators are monitored with electronic leak detection systems for the interstitial space. Our separators come in a variety of designs and are available in either single-walled or double-walled construction. Double-walled separators capture any potential leak in the interstitial space and with an electronic leak detection system, automatically provide an immediate warning to appropriate personnel.

**Options**

We offer an extensive range of standard sizes and capacities with complete accessory packages including leak and level sensors, alarm/control panels, influent, effluent, and oil pump systems.

Whether your oil/water separator application is for emergency spill control or high performance wastewater treatment, Highland Tank has the product for you.