SMITH & LOWNEY, P.L.L.C.
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SEATTLE, WASHINGTON 98112
(206) 860-2883, FAX (206) 860-4187

4/7/2017

It has been brought to our attention that the original Notice of Intent that was sent on 4/4/2017 may have been a one-sided print. Enclosed is a complete copy. If there are any questions, please feel free to contact me below.

Very truly yours,

RECEIVED ON:

APR 11 2017
ORC
EPA Region 10
Office of the Regional Administrator

SMITH & LOWNEY, P.L.L.C

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April 3, 2017

Via Certified Mail - Return Receipt Requested
Mr. Ed Galligan
Executive Director
Port of Olympia
915 Washington Street Northeast
Olympia, WA 98501

Re: **NOTICE OF INTENT TO SUE UNDER THE CLEAN WATER ACT AND REQUEST FOR COPY OF STORMWATER POLLUTION PREVENTION PLAN**

Dear Managing Agent:

We represent Waste Action Project, P.O. Box 9281, Covington, WA 98042, (206) 849-5927. Any response or correspondence related to this matter should be directed to us at the letterhead address. This letter is to provide you with sixty days notice of Waste Action Project's intent to file a citizen suit against the Port of Olympia under section 505 of the Clean Water Act ("CWA"), 33 USC § 1365, for the violations at the Port of Olympia Ocean Terminal described below. This letter is also a request for a copy of the complete and current stormwater pollution prevention plan ("SWPPP") required by Port of Olympia's National Pollution Discharge Elimination System ("NPDES") permit.

For its Ocean Terminal, the Port of Olympia was granted coverage on January 1, 2010 under the Washington Industrial Stormwater General Permit ("IGSP") issued by the Washington State Department of Ecology ("Ecology") on October 21, 2009, effective January 1, 2010, modified May 16, 2012, effective July 1, 2012, and set to expire on January 1, 2015, under NPDES Permit No. WAR001168 (the "2010 Permit"). Ecology granted subsequent coverage under the current iteration of the ISGP, issued by Ecology on December 3, 2014, effective January 2, 2015, and set to expire on December 31, 2019 (the "2015 Permit") and maintains the same permit number, WAR001168.

Port of Olympia has violated and continues to violate the CWA (see Sections 301 and 402 of the CWA, 33 USC §§ 1311 and 1342) and the terms and conditions of the 2010 Permit and 2015 Permit (collectively, "Permits") with respect to operations of, and discharges of stormwater and pollutants, including unpermitted discharges as described below in Section XII of this Notice of Intent to Sue, from its facility located at or about 915 Washington Street NE, Olympia, WA 98501 (the "facility") as described herein, to the West Bay of Budd Inlet, part of the Puget Sound. The facility subject to this notice includes any contiguous or adjacent properties owned or operated by Port of Olympia.

I. COMPLIANCE WITH STANDARDS.

A. Violations of Water Quality Standards.

Condition S10.A of the Permits prohibits discharges that cause or contribute to violations of water quality standards. Water quality standards are the foundation of the CWA and Washington's efforts to protect clean water. In particular, water quality standards represent the U.S. Environmental Protection Agency ("EPA") and Ecology's determination, based on scientific studies, of the thresholds at which pollution starts to cause significant adverse effects on fish or other beneficial uses. For each water body in Washington, Ecology designates the "beneficial uses" that must be protected through the adoption of water quality standards.

A discharger must comply with both narrative and numeric criteria for water quality standards. WAC 173-201A-010; WAC 173-201A-510 ("No waste discharge permit can be issued that causes or contributes to a violation of water quality criteria, except as provided for in this chapter."). Narrative water quality standards provide legal mandates that supplement the numeric criteria. Furthermore, the narrative water quality standard applies with equal force even if Ecology has established a numeric water quality standard. Specifically, Condition S10.A of the Permits requires that Port of Olympia's discharges not cause or contribute to a violation of Washington State water quality standards.

Port of Olympia discharges to the West Bay of Budd Inlet via a stormwater conveyance system, comprising collection and conveyance facilities, such as catch basins and pipes which then discharges to the Puget Sound. The West Bay of Budd Inlet does not meet water quality standards for dissolved oxygen or dioxin and is included on the state's "303(d) list" of impaired water bodies. Port of Olympia discharges stormwater that contains elevated levels of zinc, turbidity, copper, chemical oxygen demand ("COD"), and total suspended solids ("TSS") as indicated in the table of benchmark exceedances below. These discharges cause and/or contribute to violations of water quality standards (including sediment quality standards) in Budd Inlet for dissolved oxygen and turbidity, violations of the sediment management standards in Budd Inlet for sediment bioassay, violations of aquatic life criteria for Budd Inlet, violations of the secondary contact recreational criteria for Budd Inlet, violations of the wildlife habitat criteria for Budd Inlet, violations of the harvesting criteria for Budd Inlet, violations of the commerce and navigation criteria for Budd Inlet, violations of the boating criteria for Budd Inlet, as well as violations of the aesthetic criteria for Budd Inlet due to the presence of turbid and toxic discharges from the facility that offend the senses of sight, smell and touch Budd Inlet. *See* WAC 173-201A-210(1)(d), (1)(e), (1)(a)(iii), (3), (4), WAC 173-204-320(f), WAC 173-201A-240, WAC 173-201A-602, WAC 173-201A-610, WAC 173-201A-612, and WAC 173-204 Part III. These violations have occurred each and every day during the last five years on which there was 0.1 inch or more of precipitation, and continue to occur. Precipitation data from that time period is appended to this notice of intent to sue and identifies these days.

Table 1 – Benchmark Exceedances

Quarter in which sample collected (monitoring point)	COD (Benchmark 120 mg/L)	TSS (Benchmark 100 mg/L)	Copper Concentration (Benchmark 14 ug/L)	Zinc (Benchmark 117 ug/L)	Turbidity (Benchmark 25 NTU)
1st Quarter 2011					
A02*					
I01*					
MH1*					
SB1*	**870**				
SW1*	**270**				
2nd Quarter 2011					
A02					
I01					
MH1	**430**	**110**	**20.8**		
SB1	**150**				
SW1					
3rd Quarter 2011					
A02					
I01	**420**				
MH1	**620**				**64.8**
SB1	**480**			**153**	
SW1	**420**			**194**	**36.4**
4th Quarter 2011					
A02	**245**				
I01	**1020**				
MH1	**277**				
SB1	**560**				
SW1	**1143**	**187**			
1st Quarter 2012					
A02					
I01	**487**	**287**			**230**
MH1					**28.23**
SB1	**610**				**84.7**
SW1	**973**	**495**	**26.6**	**189**	**308**
2nd Quarter 2012					
A02					
I01	**430**				**48.6**
MH1	**225**				**69**
SB1	**460**				**49.2**
SW1	**950**	**196.7**		**135.7**	**299.5**

3rd Quarter 2012					
A02					
I01	**730**				**48.9**
MH1	**370**				**28.7**
SB1	**470**				**29.1**
SW1	**1600**	**190**	**15**	**141**	**260**
4th Quarter 2012					
A02			**18.6**		
I01	**1035**	**165**	**20.25**		**207**
MH1	**475**		**17.8**	**179.65**	**78.8**
SB1	**665**				**131.4**
SW1	**1700**	**820**	**31.6**	**407.5**	**327.35**
1st Quarter 2013					
A02					
I01	**204.3**	**202.7**			**153.5**
MH1	**175**				**43**
SB1	**806.7**	**190**			**298.2**
SW1	**1210**	**190**		**145.9**	**227.3**
2nd Quarter 2013					
A02					
I01	**356.6**				**100.3**
MH1	**215**				**61.6**
SB1	**770**				**112.9**
SW1	**1290**	**258**		**154.2**	**198.8**
3rd Quarter 2013					
A02					
I01	**815**	**671**	**16**	**273.5**	**52.4**
MH1	**550**				**93.4**
SB1	**715**				**77.8**
SW1	**2250**	**300**	**22.5**	**244**	**366.4**
4th Quarter 2013					
A02					
I01	**1465**	**518**	**28.9**	**316**	**200**
MH1	**290**	**117.5**			**125.2**
SB1	**690**				**103.9**
SW1	**1050**	**290**	**17.5**	**125**	**384.1**
1st Quarter 2014					
A02					
I01	**244.3**				
MH1	**232.7**				
SB1	**931.3**				**151.2**
SW1	**1733.3**	**276.6**	**14.6**	**142.6**	**326.5**

2nd Quarter 2014					
A02					
I01	**460**				
MH1	**290**				
SB1	**680**				**130.8**
SW1	**910**				**37.1**
3rd Quarter 2014					
A02			**14.5**	**191**	**33.3**
I01	**1500**	**226**	**15.1**	**186**	**208.3**
MH1					
SB1	**1200**			**122**	**68.8**
SW1	**3250**	**501.5**	**39.2**	**407.5**	**364.9**
4th Quarter 2014					
A02					
TF1	**300**				
1st Quarter 2015					
A02					
TF1	**256.67**				
2nd Quarter 2015					
A02					
TF1	**180**				
3rd Quarter 2015					
A02	**160**				
TF1	**130**				
4th Quarter 2015					
A02					
TF1	**140**				
1st Quarter 2016					
A02					
TF1	**270**				
2nd Quarter 2016					
A02					
TF1					
3rd Quarter 2016					
A02					
TF1	**310**				
4th Quarter 2016					
A02					
TF1	**640**				

* A02, I01, MH1, SB1, SW1, TF1 are monitoring point designations used and known by the Port.

B. Compliance with Standards.

Condition S10.C of the Permits requires Port of Olympia to apply all known and reasonable methods of prevention, control and treatment ("AKART") to all discharges, including preparation and implementation of an adequate SWPPP and best management practices ("BMPs"). Port of Olympia has violated and continues to violate these conditions by failing to apply AKART to its discharges or to implement an adequate SWPPP and BMPs as evidenced by the elevated levels of pollutants in its discharge indicated in Table 1 above and as described below in this notice of intent to sue.

Additionally, Port of Olympia has not applied AKART to its discharges from approximately 52 wharf drains, consisting of slot drains and round ports (also known as "scuppers"), on the dock side of the Terminal in Drainage Basin A, which discharge directly to Budd Inlet. Stormwater that is discharged through these drains is not subject to source control, structural, and treatment best management practices implemented on other portions of the site.

Condition S1.A of the Permits requires that all discharges and activities authorized be consistent with the terms and conditions of the Permits. Port of Olympia has violated these conditions by discharging and acting inconsistently with the conditions of the Permits as described in this Notice of Intent to Sue.

II. STORMWATER POLLUTION PREVENTION PLAN VIOLATIONS.

The Defendant is in violation of the Permits' SWPPP provisions as follows:

1. Condition S3.A.1 of the Permits requires Port of Olympia to develop and implement a SWPPP as specified. Condition S3.A.2 of the Permits require the SWPPP to specify BMPs necessary to provide AKART and ensure that discharges do not cause or contribute to violations of water quality standards. On information and belief, Port of Olympia has violated these requirements of the Permits each and every day during the last five years and continues to violate them as it has failed to prepare and/or implement a SWPPP that includes AKART BMPs and BMPs necessary to comply with state water quality standards.

2. Condition S3.A of the Permits requires Port of Olympia to have and implement a SWPPP that is consistent with permit requirements, fully implemented as directed by permit conditions, and updated as necessary to maintain compliance with permit conditions. On information and belief, Port of Olympia has violated these requirements of the Permits each and every day during the last five years and continues to violate them because its SWPPP is not consistent with permit requirements, has not been fully implemented and has not been updated as necessary. Port of Olympia has also failed to update its SWPPP as necessary, including in response to the facility's significant process changes, as described below in section VIII of this Notice of Intent to Sue.

3. The SWPPP fails to satisfy the requirements of Condition S3 of the Permits because it does not adequately describe BMPs. Condition S3.B.4 of the Permits requires that the SWPPP include a description of the BMPs that are necessary for the facility to eliminate or reduce the potential to contaminate stormwater. Condition S3.A.3 of the Permits requires that the SWPPP include BMPs consistent with approved stormwater technical manuals or document how stormwater BMPs included in the SWPPP are demonstratively equivalent to the practices contained in the approved stormwater technical manuals, including the proper selection, implementation, and maintenance of all applicable and appropriate BMPs. Port of Olympia's SWPPP does not comply with these requirements because it does not adequately describe BMPs and does not include BMPs consistent with approved stormwater technical manuals nor does it include BMPs that are demonstratively equivalent to such BMPs with documentation of BMP adequacy.

4. Port of Olympia's SWPPP fails to satisfy the requirements of Condition S3.B.2 of the Permits because it fails to include a facility assessment as mandated. The SWPPP fails to include an adequate facility assessment because it does not describe the industrial activities conducted at the site, the general layout of the facility including buildings and storage of raw materials, the flow of goods and materials through the facility, regular business hours and seasonal variations in business hours or in industrial activities as required.

5. Port of Olympia's SWPPP fails to satisfy the requirements of Condition S3.B.1 of the Permits because it does not include a site map that identifies significant features, the stormwater drainage and discharge structures, the stormwater drainage areas for each stormwater discharge point off-site, a unique identifying number for each discharge point, each sampling location with a unique identifying number, paved areas and buildings, areas of pollutant contact associated with specific industrial activities, conditionally approved non-stormwater discharges, surface water locations, areas of existing and potential soil erosion, vehicle maintenance areas, and lands and waters adjacent to the site that may be helpful in identifying discharge points or drainage routes.

6. Port of Olympia's SWPPP fails to comply with Condition S3.B.2.b of the Permits because it does not include an inventory of industrial activities that identifies all areas associated with industrial activities that have been or may potentially be sources of pollutants as required. The SWPPP does not identify all areas associated with loading and unloading of dry bulk materials or liquids, outdoor storage of materials or products, outdoor manufacturing and processing, onsite dust or particulate generating processes, on-site waste treatment, storage, or disposal, vehicle and equipment fueling, maintenance, and/or cleaning, roofs or other surfaces exposed to air emissions from a manufacturing building or a process area, and roofs or other surfaces composed of materials that may be mobilized by stormwater as required by these conditions.

7. Port of Olympia's SWPPP does not comply with Condition S3.B.2.c of the Permits because it does not include an adequate inventory of materials. The SWPPP does not include an inventory of materials that lists the types of materials handled at the site that potentially may be exposed to precipitation or runoff and that could result in stormwater pollution, a short narrative for material describing the potential for the pollutants to be present

in stormwater discharge that is updated when data becomes available to verify the presence or absence of the pollutants, a narrative description of any potential sources of pollutants from past activities, materials and spills that were previously handled, treated, stored, or disposed of in a manner to allow ongoing exposure to stormwater as required. The SWPPP does not include the method and location of on-site storage or disposal of such materials and a list of significant spills and significant leaks of toxic or hazardous pollutants as these permit conditions require.

8. Port of Olympia's SWPPP does not comply with Condition S3.B.3 of the Permits because it does not identify specific individuals by name or title whose responsibilities include SWPPP development, implementation, maintenance, and modification.

9. Condition S3.B.4 of the 2010 Permit requires that permittees include in their SWPPPs and implement certain mandatory BMPs no later than July 1, 2010 unless site conditions render the BMP unnecessary, infeasible, or an alternative and equally effective BMP is provided. Port of Olympia is in violation of this requirement because it has failed to include in its SWPPP and implement the mandatory BMPs of the 2010 Permit.

10. Condition S3.B.4 of the 2015 Permit requires that permittees include in their SWPPPs and implement certain mandatory BMPs and that the permittee explain in detail how and where the selected BMPs will be implemented. Port of Olympia is in violation of this requirement because it has failed to include in its SWPPP and implement the mandatory BMPs of the 2015 Permit and has failed to explain in detail how and where these BMPs will be implemented.

11. Port of Olympia's SWPPP does not comply with Condition S3.B.4.b.i of the Permits because it does not include required operational source control BMPs in the following categories: good housekeeping (including definition of ongoing maintenance and cleanup of areas that may contribute pollutants to stormwater discharges, and a schedule/frequency for each housekeeping task); preventive maintenance (including BMPs to inspect and maintain stormwater drainage, source controls, treatment systems, and plant equipment and systems, and the schedule/frequency for each task); spill prevention and emergency cleanup plan (including BMPs to prevent spills that can contaminate stormwater, for material handling procedures, storage requirements, cleanup equipment and procedures, and spill logs); employee training (including an overview of what is in the SWPPP, how employees make a difference in complying with the SWPPP, spill response procedures, good housekeeping, maintenance requirements, and material management practices, how training will be conducted, the frequency/schedule of training, and a log of the dates on which specific employees received training); inspections and recordkeeping (including documentation of procedures to ensure compliance with permit requirements for inspections and recordkeeping, including identification of personnel who conduct inspections, provision of a tracking or follow-up procedure to ensure that a report is prepared and appropriate action taken in response to visual monitoring, definition of how Port of Olympia will comply with signature and record retention requirements, and certification of compliance with the SWPPP and Permits).

12. Port of Olympia's SWPPP does not comply with Condition S3.B.4.b.i.7 of the Permits because it does not include measures to identify and eliminate the discharge of process wastewater, domestic wastewater, noncontact cooling water, and other illicit discharges to stormwater sewers, or to surface waters and ground waters of the state.

13. Port of Olympia's SWPPP does not comply with Condition S3.B.4.b.ii of the Permits because it does not include required structural source control BMPs to minimize the exposure of manufacturing, processing, and material storage areas to rain, snow, snowmelt, and runoff. Port of Olympia's SWPPP does not comply with Condition S3.B.4.b.iii of the Permits because it does not include treatment BMPs as required.

14. Port of Olympia's SWPPP fails to comply with Condition S3.B.4.b.v of the Permits because it does not include BMPs to prevent the erosion of soils or other earthen materials and prevent off-site sedimentation and violations of water quality standards.

15. Port of Olympia's SWPPP fails to satisfy the requirements of Condition S3.B.5 Permits because it fails to include a stormwater sampling plan as required. The SWPPP does not include a sampling plan that identifies points of discharge to surface waters, storm sewers, or discrete ground water infiltration locations, documents why each discharge point is not sampled, identifies each sampling point by its unique identifying number, identifies staff responsible for conducting stormwater sampling, specifies procedures for sampling collection and handling, specifies procedures for sending samples to the a laboratory, identifies parameters for analysis, holding times and preservatives, laboratory quantization levels, and analytical methods, and that specifies the procedure for submitting the results to Ecology.

III. MONITORING AND REPORTING VIOLATIONS.

A. Failure to Collect Quarterly Samples.

Condition S4.B of the Permits requires Port of Olympia to collect a sample of its stormwater discharge once during every calendar quarter. Conditions S3.B.5.b and S4.B.2.c of the Permits require Port of Olympia to collect stormwater samples at each distinct point of discharge offsite except for substantially identical outfalls when documented in the SWPPP, in which case only one of the substantially identical outfalls must be sampled. These conditions set forth sample collection criteria, but require the collection of a sample even if the criteria cannot be met. The Port of Olympia Facility has at least two distinct points of discharge off-site: outfall A (Monitoring Point A02) and outfall C (Monitoring Point TF1). Additional unnamed distinct discharge points exist, including a number of slot drains and round ports on the dock side of the Facility which discharge directly into Budd Inlet.

Port of Olympia violated these requirements by failing to collect stormwater samples at any of its discharge points during the second quarter of 2016.

Port of Olympia has also violated and continues to violate these conditions because it does not sample each distinct point of discharge off-site. Namely, Port of Olympia does not

monitor discharge from the approximately 52 wharf drains, consisting of slot drains and round ports (also known as "scuppers"), on the dock side of the Terminal in Drainage Basin A, which discharge directly to Budd Inlet. These violations have occurred and continue to occur each and every quarter during the last five years that Port of Olympia was and is required to sample its stormwater discharges, including the quarters in which it collected stormwater discharge samples from some, but not each, point of discharge. These violations will continue until Defendant commences monitoring all distinct points of discharge.

B. Failure to Analyze Quarterly Samples.

Condition S5.A.1 of the Permits requires Port of Olympia to analyze stormwater samples collected quarterly for turbidity, pH, total copper, total zinc, TSS, and COD.

Port of Olympia violated these conditions by failing to analyze stormwater samples during the second quarter of 2016.

C. Failure to Timely Submit Discharge Monitoring Reports.

Condition S9.A of the Permits requires Port of Olympia to use DMR forms provided or approved by Ecology to summarize, report and submit monitoring data to Ecology. For each monitoring period (calendar quarter) a DMR must be completed and submitted to Ecology not later than 45 days after the end of the monitoring period. Port of Olympia has violated these conditions by failing to submit a DMR within the time prescribed for the first quarter of 2011, second quarter of 2011, third quarter of 2011, fourth quarter of 2011, first quarter of 2013, fourth quarter of 2013, first quarter of 2014, and second quarter of 2014.

D. Failure to Comply with Visual Monitoring Requirements.

Condition S7.A of the Permits requires that monthly visual inspection be conducted at the facility by qualified personnel. Each inspection is to include observations made at stormwater sampling locations and areas where stormwater associated with industrial activity is discharged, observations for the presence of floating materials, visible oil sheen, discoloration, turbidity, odor, etc. in the stormwater discharges, observations for the presence of illicit discharges, a verification that the descriptions of potential pollutant sources required by the permit are accurate, a verification that the site map in the SWPPP reflects current conditions, and an assessment of all BMPs that have been implemented (noting the effectiveness of the BMPs inspected, the locations of BMPs that need maintenance, the reason maintenance is needed and a schedule for maintenance, and locations where additional or different BMPs are needed).

Condition S7.C of the Permits requires that Port of Olympia record the results of each inspection in an inspection report or checklist that is maintained on-site and that documents the observations, verifications, and assessments required. The report/checklist must include the time and date of the inspection, the locations inspected, a statement that, in the judgment of the person conducting the inspection and the responsible corporate officer, the facility is either in compliance or out of compliance with the SWPPP and the Permits, a summary report

and schedule of implementation of the remedial actions that Port of Olympia plans to take if the site inspection indicates that the facility is out of compliance, the name, title, signature and certification of the person conducting the facility inspection, and a certification and signature of the responsible corporate officer or a duly authorized representative.

Port of Olympia is in violation of these requirements of Condition S7 of the Permits because, during the last five years, it has failed to conduct each of the requisite visual monitoring and inspections, failed to prepare and maintain the requisite inspection reports or checklists, and failed to make the requisite certifications and summaries.

E. Failure to Comply with Storm Drain Solids Sampling and Reporting Requirements

Condition S6.C.2.d of the 2015 Permit requires that permittees who discharge to Puget Sound Sediment Cleanup Sites remove accumulated solids from storm drain lines owned or controlled by the permittee at least once prior to October 1, 2016. Condition S6.C.2.e of the 2015 Permit requires permittees sample and analyze storm drain solids in accordance with Table 8 of the 2015 Permit at least once prior to October 1, 2016. Condition S6.C.2.f of the 2015 Permit requires that all storm drain solids sampling data shall be reported to Ecology on a Solids Monitoring Report (SMR) no later than the DMR due date for the reporting period in which the solids were sampled, in accordance with Condition S9.A of the 2015 Permit.

Port of Olympia is in violation of these Conditions by failing to remove accumulated solids from storm drain lines at least once prior to October 1, 2016, failing to sample and analyze its storm drain solids at least once prior to October 1, 2016, and failing to report results of storm drain solids sampling to Ecology on an SMR.

IV. CORRECTIVE ACTION VIOLATIONS.

A. Violations of the Level One Requirements of the Permits.

Condition S8.B of the Permits requires Port of Olympia take specified actions, called a "Level One Corrective Action," each time quarterly stormwater sample results exceed a benchmark value or are outside the benchmark range.

As described by Condition S8.B of the Permits, a Level One Corrective Action requires Port of Olympia to: (1) review the SWPPP for the facility and ensure that it fully complies with Condition S3 of the Permits and contains the correct BMPs from the applicable Stormwater Management Manual; (2) make appropriate revisions to the SWPPP to include additional operational source control BMPs with the goal of achieving the applicable benchmark values in future discharges and sign and certify the revised SWPPP in accordance with Condition S3.A.6 of the Permits; and (3) summarize the Level One Corrective Action in the Annual Report required under Condition S9.B of the Permits. Condition S8.B.3 of the Permits requires Port of Olympia to implement the revised SWPPP as soon as possible, and no later than the DMR due date for the quarter the benchmark was exceeded.

Condition S5.A and Table 2 of the Permits establish the following benchmarks: turbidity 25 NTU; pH 5 – 9 SU; total copper 14 µg/L; and total zinc 117 µg/L. Condition S5.B and Table 3 of the Permits establish the following additional benchmarks that are applicable to Port of Olympia: COD 120 mg/L; and TSS 100 mg/L. Condition S6.C.2.a and Table 7 of the Permits establish the following additional effluent limit that is applicable to Port of Olympia: TSS 30 mg/L.

Port of Olympia has violated the requirements of the Permits described above by failing to conduct a Level One Corrective Action in accordance with permit conditions, including the required review, revision and certification of the SWPPP, the required implementation of additional BMPs, and the required summarization in the annual report each and every time in the last five year its quarterly stormwater sampling results were greater than a benchmark or outside the benchmark ranges, including the benchmark exceedances listed in Table 1 above.

B. Violations of the Level Two Requirements of the Permits.

Condition S8.C of the Permits requires Port of Olympia take specified actions, called a "Level Two Corrective Action," each time quarterly stormwater sample results exceed an applicable benchmark value or are outside the benchmark range for any two quarters during a calendar year.

As described by Condition S8.C of the Permits, a Level Two Corrective Action requires that Port of Olympia: (1) review the SWPPP for the facility and ensure that it fully complies with Condition S3 of the Permits; (2) make appropriate revisions to the SWPPP to include additional structural source control BMPs with the goal of achieving the applicable benchmark value(s) in future discharges and sign and certify the revised SWPPP in accordance with Condition S3.A.6 of the Permits; and (3) summarize the Level Two Corrective Action (planned or taken) in the Annual Report required under Condition S9.B of the Permits. Condition S8.C.4 of the Permits requires Port of Olympia to implement the revised SWPPP according to Condition S3 of the Permits and the applicable stormwater management manual as soon as possible, and no later than August 31st of the following year.

The Permits establish the benchmarks applicable to Port of Olympia are described in section IV.A of this notice of intent to sue letter.

Port of Olympia has violated the requirements of the Permits described above by failing to conduct a Level Two Corrective Action in accordance with permit conditions, including the required review, revision and certification of the SWPPP, the required implementation of additional BMPs, including additional structural source control BMPs, and the required summarization in the annual report each time since January 1, 2010, its quarterly stormwater sampling results were greater than a benchmark or outside the benchmark range for any two quarters during a calendar year. As indicated in Table 1 above, these violations include, but are not limited to, Port of Olympia's failure to fulfill these obligations for zinc, COD, turbidity, and TSS triggered by its stormwater sampling during calendar year 2011; for zinc, COD, turbidity, TSS, and copper triggered by its stormwater sampling during calendar

year 2012; for zinc, COD, turbidity, TSS, and copper triggered by its stormwater sampling during calendar year 2013; for zinc, COD, turbidity, TSS, and copper triggered by its stormwater sampling during calendar year 2014; for COD triggered by its stormwater sampling during calendar year 2015; and for COD triggered by its stormwater sampling during calendar year 2016.

V. VIOLATIONS OF THE ANNUAL REPORT REQUIREMENTS.

Condition S9.B of the Permits requires Port of Olympia to submit an accurate and complete annual report to Ecology no later than May 15th of each year. The annual report must include corrective action documentation as required in Condition S8.B – D of the Permits. If a corrective action is not yet completed at the time of submission of the annual report, Port of Olympia must describe the status of any outstanding corrective action. Specific information to be included in the annual report is identification of the conditions triggering the need for corrective action, description of the problem and identification of dates discovered, summary of any Level One, Two, or Three corrective actions completed during the previous calendar year, including the dates corrective actions completed, and description of the status of any Level Two or Three corrective actions triggered during the previous calendar year, including identification of the date Port of Olympia expects to complete corrective actions.

Port of Olympia has violated this condition. The annual report submitted by Port of Olympia for 2012 (in February 2013) does not identify the conditions triggering the need for correction action or describe those problems or the dates they were discovered. The annual report submitted by Port of Olympia for 2013 (in March 2014) does not identify the conditions triggering the need for correction action or describe those problems or the dates they were discovered. The annual report submitted by Port of Olympia for 2014 (in March 2015) does not include the required information. Specifically, Port of Olympia does not provide an adequate description of the Level Three Corrective Action. Additionally, the 2014 annual report does not identify the conditions triggering the need for correction action or describe those problems or the dates they were discovered. The annual report submitted by Port of Olympia for 2015 (in January 2016) does not include the required information. Specifically, Port of Olympia does not provide a date upon which it expects to complete the Level 3 action, instead just stating, "2016."

VI. EFFLUENT LIMIT VIOLATIONS.

Condition S6.C.1 of the 2015 Permit requires Permittees discharging to a "303(d)-listed" waterbody (Water Quality Category 5), either directly or indirectly through a stormwater drainage system must comply with the applicable sampling requirements and numeric effluent limits in Table 6 of the 2015 Permit. The "applicable sampling requirements and numeric effluent limits" means the sampling and effluent limits in Table 6 that correspond to the specific parameter(s) the receiving was is 303(d)-listed for at the time of permit coverage, or Total Suspended Solids (TSS) if the waterbody is 303(d)-listed for sediment quality at the time of permit coverage. *See also* 2015 Permit Condition S6.C.2.b (Inner Budd Inlet is also a Puget Sound Sediment Cleanup Site, subject to this condition).

Condition S6.C.1 of the 2010 Permit contained substantially identical requirements, but refers to Table 5 of that Permit.

Port of Olympia discharges to a segment of Budd Inlet, which is 303(d)-listed (Category 5) for sediment bioassay, and has been so listed for sediment bioassay since the 2012 water quality assessment. Port of Olympia's discharges are subject to a maximum daily effluent limitation of 30 mg/L for TSS. Port of Olympia discharges stormwater that contains elevated levels of TSS in excess of the corresponding numeric effluent limitation, as indicated in the table of effluent limitation violations below. Each and every one of these discharges is a separate violation of the Permits and occurred on dates within the identified calendar quarters known to the Port of Olympia.

Table 2 – Numeric Effluent Limitation Violations

Calendar quarter including date of violation	Daily Maximum TSS concentration in mg/L (monitoring point)
1st Quarter 2012	287 (I01), 50.7 (I01), 495 (SW1)
2nd Quarter 2012	37.3 (I01), 78 (MH1), 196.7 (SW1)
3rd Quarter 2012	45 (I01), 33 (MH1), 190 (SW1)
4th Quarter 2012	62 (A02), 165 (I01), 62 (MH1), 96.5 (SB1), 820 (SW1)
1st Quarter 2013	202.7 (I01), 190 (SB1), 190 (SW1)
2nd Quarter 2013	31.1 (A02), 87.3 (I01), 54.5 (MH1), 94 (SB1), 258 (SW1)
3rd Quarter 2013	671 (I01), 71.5 (MH1), 67 (SB1), 300 (SW1)
4th Quarter 2013	518 (I01), 117.5 (MH1), 48 (SB1), 290 (SW1)
1st Quarter 2014	36 (MH1), 98 (SB1), 276.6 (SW1)
2nd Quarter 2014	90 (SB1), 31 (SW1)
3rd Quarter 2014	501.5 (SW1)
1st Quarter 2015	36.33 (TF1)
3rd Quarter 2015	33 (A02)
1st Quarter 2016	64 (TF1)

VII. ILLICIT AND PROHIBITED DISCHARGES.

Condition S5.E of the Permits prohibits the discharge of process wastewater (including stormwater that comingles with process wastewater) and illicit discharges. Appendix 2 to the Permits defines "illicit discharges" as "any discharge that is not composed entirely of stormwater." Condition S5.F of the Permits requires Port of Olympia to manage stormwater to prevent the discharge of synthetic, natural or processed oil or oil containing products as identified by an oil sheen, and trash and floating debris, prohibiting those discharges.

Port of Olympia's discharges of grain dust and process wastewater from dust control operations violate these Permit conditions. Port of Olympia generates discharges of grain dust during loading and offloading of grain from ships. Grain dust is also generated at all

grain transfer points, including transfers from inside the warehouse building and from the conveyor belt. Furthermore, grain dust is generated when loaders are cleaned using air hoses. Process wastewater discharges are created when a water truck is used for dust control operations. These prohibited discharges occurred each and every day over the past five years on which Port of Olympia loaded or offloaded grain from ships, transferred grain around the facility, cleaned grain loaders using air hoses, and used water trucks for dust control (which dates are known to the Port of Olympia) and are reasonably likely to continue to occur.

Condition S7.B.3.b of the Permits also requires Port of Olympia to eliminate illicit discharges within 30 days of discovery; and Condition S3.B.4.b.i.7 of the Permits require Port of Olympia's SWPPP to include measures to identify and eliminate illicit discharges to surface waters. Port of Olympia violated these requirements by failing to eliminate its illicit discharges altogether over the last five years and failing to include measure to identify and eliminate illicit discharges in its SWPPP.

Additionally, Condition S7.B.3.a of the Permits requires Port of Olympia to notify the Department of Ecology within seven days of any discovery of an illicit discharge. Port of Olympia violated this requirement by failing to notify Ecology about its illicit discharges within seven days of each occurrence over the past five years.

VIII. MODIFICATION OF PERMIT COVERAGE VIOLATIONS.

Condition S2.B of the Permits requires Port of Olympia to submit a complete Modification of Coverage Form to Ecology when Port of Olympia anticipates a significant process change. This application for modification must be submitted at least 60 days prior to implementing a significant process change. Port of Olympia must complete the public notice requirements in WAC 173-226-130(5) as part a complete application for modification of coverage. And Port of Olympia must comply with the State Environmental Protection Act (SEPA) as part of a complete application for modification of coverage if undergoing a significant process change. Furthermore, general condition G19 requires Port of Olympia to, as soon as possible, give notice to Ecology of planned physical alterations, modification or additions to the permitted industrial activity, which will result in a significant process change. A "significant process change" is defined in the Permits at Appendix 2 as "any modification of the facility that would result in any of the following: (1) Add different pollutants in a significant amount to the discharge, (2) Increase the pollutants in the stormwater discharge by a significant amount, (3) Add a new industrial activity (SIC) that was not previously covered, (4) Add additional impervious surface or acreage such that stormwater discharge would be increased by 25% or more."

Port of Olympia violated condition S2.B and G19 of the Permits by failing to apply for a Modification of Coverage for two significant process changes, including a failure to comply with the public notice requirements and SEPA compliance requirements. These first significant process change at this facility was the initiation of importation and warehousing of corn sometime after the facility obtained Permit coverage and before May 16, 2016. Port of Olympia was required to apply for a Modification of Permit coverage for this process change because the importation or exportation of a new product, in this case, corn, could add different

pollutants in a significant amount to the discharge or increase the pollutants in the discharge by a significant amount. The second significant process change was the initiation of exportation of cattle sometime after the facility obtained Permit coverage and before May 16, 2016. Port of Olympia was required to apply for a Modification of Permit coverage for this process change because the exportation of cattle could add different pollutants in a significant amount to the discharge or increase the pollutants in the discharge by a significant amount. Furthermore, the storage of farm product, which Port of Olympia is engaging in for both corn storage and cattle storage while these products await loading or offloading, is an new industrial activity with a different SIC code that was not previously covered. The SIC code for storage of farm product is 4221. Currently, the only SIC codes associated with the facility are for logging and marine cargo handling, SIC codes 2411 and 4491.

IX. VIOLATIONS OF THE RECORDKEEPING REQUIREMENTS.

A. Failure to Record Information.

Condition S4.B.3 of the Permits requires Port of Olympia to record and retain specified information for each stormwater sample taken, including the sample date and time, a notation describing if Port of Olympia collected the sample within the first 30 minutes of stormwater discharge event, an explanation of why Port of Olympia could not collect a sample within the first 30 minutes of a stormwater discharge event, the sample location, method of sampling and of preservation, and the individual performing the sampling. Upon information and belief, Port of Olympia is in violation of these conditions as it has not recorded each of these specified items for each sample taken during the last five years.

B. Failure to Retain Records.

Condition S9.C of the Permits requires Port of Olympia to retain for a minimum of five years a copy of the Permits, a copy of Port of Olympia's coverage letter, records of all sampling information, inspection reports including required documentation, any other documentation of compliance with permit requirements, all equipment calibration records, all BMP maintenance records, all original recordings for continuous sampling instrumentation, copies of all laboratory results, copies of all required reports, and records of all data used to complete the application for the Permits. Upon information and belief, Port of Olympia is in violation of these conditions because it has failed to retain records of such information, reports, and other documentation during the last five years.

X. FAILURE TO REPORT PERMIT VIOLATIONS.

Condition S9.E of the Permits requires Port of Olympia to take certain actions in the event it is unable to comply with any of the terms and conditions of the Permits which may endanger human health or the environment, or exceed any numeric effluent limitation in the permit. In such circumstances, Port of Olympia must immediately take action to minimize potential pollution or otherwise stop the noncompliance and correct the problem, and Port of Olympia must immediately notify the appropriate Ecology regional office of the failure to comply. Port of Olympia must then submit a detailed written report to Ecology, including

specified details, within 5 days of the time Port of Olympia became aware of the circumstances unless Ecology requests an earlier submission.

On information and belief, Defendant routinely violates these requirements, including each and every time Port of Olympia exceeded the numeric effluent limitation for TSS, as specified in Table 2, above, each and every time Port of Olympia discharges illicit and/or non-stormwater discharges, as described in section VII to this notice of intent to sue, above, each and every time Port of Olympia failed to comply with the corrective action requirements described in section IV of this Notice of Intent to Sue, and each and every time Port of Olympia discharged stormwater with concentrations of pollutants in excess of the Permit benchmarks, as described in Table 1, above. All these violations may endanger human health or the environment.

XI. VIOLATIONS OF THE RIGHT OF INSPECTION AND ENTRY

General Condition G3 of the Permits requires Port of Olympia to allow an authorized representative of Ecology, upon the presentation of credentials and other such documents: (1) to enter the premises where a discharge is located or where any records shall be kept; (2) to have access to and copy, at reasonable times and at reasonable cost, any records required to be kept under the terms and conditions of the Permit; (3) to inspect, at reasonable times, any facilities, equipment (including sampling and control equipment), practices, methods, or operations regulated or required under the Permit; and (4) to sample or monitor, at reasonable times, any substances or parameters at any location for purposes of assuring permit compliance or as otherwise directed by the CWA.

Port of Olympia has violated this condition by denying the right of entry and inspection to Ecology inspectors on the following occasions: January 28, 2015, January 29, 2015, and March 31, 2016. On information and belief, other such denials of access have occurred during the last five years.

XII. UNPERMITTED DISCHARGES

The Permits authorize only the discharges of stormwater and pollutants contained in stormwater. Defendant does not possess and has never possessed an NPDES permit for its non-stormwater direct discharges of grain dust and process wastewater to Budd Inlet. The point sources of illicit discharges of pollutants at Port of Olympia's facility include the clamshell used to load and offload grain from ships, the conveyor belt used to load and offload grain from ships and transfer grain around the facility, grain storage areas, and the facility itself. These point source discharges violate the Clean Water Act's § 301(a), 33 U.S.C. § 1311(a), prohibition on pollutant discharges because they are authorized by no NPDES permit. These violations occurred on March 31, 2016, as well as each and every day over the past five years on which Port of Olympia loaded or offloaded grain from ships, loaded or offloaded grain from trains, transferred grain around the facility, cleaned grain loaders using air hoses, and used water trucks for dust control, which days are known to or discernible by the Port, and are reasonably likely to continue to occur whenever these activities occur going forward.

XIII. REQUEST FOR SWPPP.

Pursuant to Condition S9.F of the Permits, Waste Action Project hereby requests that Port of Olympia provide a copy of, or access to, its SWPPP complete with all incorporated plans, monitoring reports, checklists, and training and inspection logs. The copy of the SWPPP and any other communications about this request should be directed to the undersigned at the letterhead address.

Should Port of Olympia fail to provide the requested complete copy of, or access to, its SWPPP as required by Condition S9.F of the Permits, it will be in violation of that condition, which violation shall also be subject to this Notice of Intent to Sue and any ensuing lawsuit.

XIV. CONCLUSION.

The above-described violations reflect those indicated by the information currently available to Waste Action Project. These violations are ongoing. Waste Action Project intends to sue for all violations, including those yet to be uncovered and those committed after the date of this Notice of Intent to Sue.

Pursuant to Sections 309(d) and 505(a) of the CWA, 33 U.S.C. §§ 1319(d) and 1365(a), and 40 C.F.R. § 19 and 19.4, each of the above-described violations subjects the violator to a penalty of up to $37,500 per day for each violation for violations committed through November 2, 2015 and up to $51,570 per day for each violation committed thereafter. In addition to civil penalties, Waste Action Project will seek injunctive relief to prevent further violations under Sections 505(a) and (d) of the CWA, 33 USC § 1365(a) and (d), and such other relief as is permitted by law. Also, Section 505(d) of the CWA, 33 USC § 1365(d), permits prevailing parties to recover costs, including attorney's fees.

Waste Action Project believes that this NOTICE OF INTENT TO SUE sufficiently states grounds for filing suit. We intend, at the close of the 60-day notice period, or shortly thereafter, to file a citizen suit against Port of Olympia under Section 505(a) of the Clean Water Act for violations.

During the 60-day notice period, we would be willing to discuss effective remedies for the violations addressed in this letter and settlement terms. If you wish to pursue such discussions in the absence of litigation, we suggest that you initiate those discussions within 10 days of receiving this notice so that a meeting can be arranged and so that negotiations may be completed promptly. We do not intend to delay the filing of a complaint if discussions are continuing when the notice period ends.

Very truly yours,

SMITH & LOWNEY, PLLC

By: _____
Richard Smith
Alyssa Englebrecht

cc: Scott Pruitt, Administrator, U.S. EPA
Michelle Pirzadeh, Administrator, Region 10 U.S. EPA
Maia Bellon, Director, Washington Department of Ecology

Precipitation Data

2012	Precip. Accum
Apr	Sum
4	0.22 in
5	0.05 in
6	0.03 in
7	0 in
8	0 in
9	0 in
10	0.02 in
11	0.48 in
12	0.03 in
13	0.01 in
14	0 in
15	0.04 in
16	0.4 in
17	0.2 in
18	0.1 in
19	0.69 in
20	0.15 in
21	0 in
22	0 in
23	0 in
24	0.07 in
25	0.67 in
26	0.23 in
27	0.06 in
28	0 in
29	0.08 in
30	0.28 in

2012	Precip. Accum.
May	Sum
1	0.13 in
2	0 in
3	0.79 in
4	0.01 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
14	0 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0.16 in
21	0.25 in
22	0.39 in
23	0.34 in
24	0.12 in
25	0 in
26	0 in
27	0 in
28	0.02 in
29	0 in
30	0 in
31	0.28 in

2012	Precip. Accum.
Jun	Sum
1	0.11 in
2	0.03 in
3	0 in
4	0.03 in
5	0.1 in
6	0 in
7	0.55 in
8	0.15 in
9	0 in
10	0 in
11	0 in
12	0.01 in
13	0.01 in
14	0 in
15	0 in
16	0 in
17	0.03 in
18	0.03 in
19	0 in
20	0 in

Precipitation Data

21	0 in
22	0.12 in
23	0.28 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0.01 in
29	0.01 in
30	0.25 in

2012	Precip. Accum.
Jul	Sum
1	0 in
2	0.09 in
3	0.19 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0.15 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0.27 in
21	0 in
22	0 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0 in
30	0 in
31	0 in

2012	Precip. Accum.
Aug	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0 in
24	0 in
25	0 in
26	0.04 in
27	0 in
28	0 in
29	0 in
30	0 in
31	0 in

2012	Precip. Accum.
Sep	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in

Precipitation Data

6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0 in
30	0 in

2012	Precip. Accum.
Oct	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
12	0.14 in
13	0.31 in
14	0.52 in
15	0.33 in
16	0.16 in
17	0 in
18	0.42 in
19	0.14 in
20	0.2 in
21	0.24 in
22	0.3 in
23	0.01 in
24	0.18 in
25	0.02 in
26	0.11 in
27	0.56 in
28	0.3 in
29	0.45 in
30	1.63 in
31	1.06 in

2012	Precip. Accum.
Nov	Sum
1	0.42 in
2	0.2 in
3	0.05 in
4	0.12 in
5	0.01 in
6	0.01 in
7	0.01 in
8	0 in
9	0.01 in
10	0.01 in
11	0.83 in
12	0.27 in
13	0.12 in
14	0.02 in
15	0 in
16	0.2 in
17	0.31 in
18	0.62 in
19	2.16 in
20	0.33 in
21	0.61 in
22	0.05 in
23	0.56 in
24	0 in
25	0 in

Precipitation Data

26	0.01 in
27	0.01 in
28	0.05 in
29	0.17 in
30	1.15 in

2012	Precip. Accum.
Dec	Sum
1	0.56 in
2	0.72 in
3	0.56 in
4	0.63 in
5	0.13 in
6	0.27 in
7	0.2 in
8	0.01 in
9	0.12 in
10	0.03 in
11	0.23 in
12	0 in
13	0 in
14	0.04 in
15	0.36 in
16	0.97 in
17	0.51 in
18	0.41 in
19	1.16 in
20	0.55 in
21	0.04 in
22	0.18 in
23	0.26 in
24	0.05 in
25	0.61 in
26	0.11 in
27	0 in
28	0.01 in
29	0.05 in
30	0 in
31	0.07 in

2013	Precip. Accum.
Jan	Sum
1	0.01 in
2	0.01 in
4	0.03 in
5	0.06 in
6	0.19 in
7	0.33 in
8	0.97 in
9	0.68 in
10	0 in
11	0 in
12	0.01 in
13	0 in
14	0.02 in
15	0 in
16	0.01 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0.01 in
23	0.18 in
24	0.2 in
25	0.01 in
26	0.1 in
27	0.03 in
28	0.02 in
29	0.01 in
30	0.2 in
31	0.03 in

2013	Precip. Accum.
Feb	Sum
1	0.01 in
2	0 in
3	0 in
4	0 in
5	0.43 in
6	0.18 in
7	0.01 in
8	0.01 in
9	0 in

Precipitation Data

10	0 in
11	0.03 in
12	0.02 in
13	0.02 in
14	0.01 in
15	0 in
16	0.02 in
17	0 in
18	0.02 in
19	0.02 in
20	0.1 in
21	0.18 in
22	1.6 in
23	0.03 in
24	0.02 in
25	0.43 in
26	0.02 in
27	0.13 in
28	0.68 in

2013	Precip. Accum.
Mar	Sum
1	0.04 in
2	0.04 in
3	0 in
4	0 in
5	0.16 in
6	0.31 in
7	0.27 in
8	0 in
9	0 in
10	0.04 in
11	0.15 in
12	0.2 in
13	0.21 in
14	0 in
15	0.04 in
16	0.18 in
17	0.02 in
18	0.06 in
19	0.43 in
20	0.79 in
21	0.15 in
22	0 in
23	0 in
24	0 in
25	0 in
26	0.01 in
27	0.01 in
28	0.22 in
29	0 in
30	0 in
31	0 in

2013	Precip. Accum.
Apr	Sum
1	0 in
2	0 in
3	0 in
4	0.39 in
5	0.85 in
6	0.45 in
7	0.67 in
8	0 in
9	0 in
10	0.36 in
11	0 in
12	0.18 in
13	0.23 in
14	0.24 in
15	0.03 in
16	0.01 in
17	0 in
18	0.02 in
19	0.24 in
20	0 in
21	0.08 in
22	0.01 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0.17 in
29	0.02 in

Precipitation Data

30	0 in

2013	Precip. Accum.
May	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0.08 in
13	0.08 in
14	0 in
15	0.02 in
16	0.03 in
17	0.06 in
18	0.02 in
19	0 in
20	0.04 in
21	0.5 in
22	0.21 in
23	0.35 in
24	0.15 in
25	0.02 in
26	0.08 in
27	0.26 in
28	0.08 in
29	0.37 in
30	0.11 in
31	0 in

2013	Precip. Accum.
Jun	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0.04 in
12	0.11 in
13	0.03 in
14	0 in
15	0 in
16	0 in
17	0.09 in
18	0.01 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0.52 in
24	0.12 in
25	0.49 in
26	0.38 in
27	0.19 in
28	0 in
29	0.01 in
30	0 in

2013	Precip. Accum.
Jul	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0 in

Precipitation Data

14	0 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0 in
30	0 in
31	0 in

2013	Precip. Accum.
Aug	Sum
1	0 in
2	0.01 in
3	0 in
4	0.01 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0.07 in
11	0 in
12	0 in
13	0 in
14	0.07 in
15	0.08 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0 in
24	0.02 in
25	0 in
26	0.05 in
27	0.03 in
28	0.11 in
29	0.66 in
30	0 in
31	0 in

2013	Precip. Accum.
Sep	Sum
1	0 in
2	0.01 in
3	0.42 in
4	0 in
5	0 in
6	0.38 in
7	0 in
8	0.01 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0.09 in
16	0.02 in
17	0.46 in
18	0.01 in
19	0 in
20	0.14 in
21	0 in
22	1.13 in
23	0.5 in
24	0.57 in
25	0.04 in
26	0 in
27	0.17 in
28	2.37 in
29	0.87 in
30	1.13 in

Precipitation Data

2013	Precip. Accum.
Oct	Sum
1	0.49 in
2	0.41 in
3	0 in
4	0.01 in
5	0.01 in
6	0.02 in
7	0.24 in
8	0.08 in
9	0.01 in
10	0.05 in
11	0 in
12	0.11 in
13	0 in
14	0.01 in
15	0.01 in
16	0 in
17	0 in
18	0.01 in
19	0.01 in
20	0 in
21	0 in
22	0 in
23	0.01 in
24	0.01 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0 in
30	0 in
31	0.08 in

2013	Precip. Accum.
Nov	Sum
1	0.02 in
2	0.44 in
4	0.05 in
5	0.17 in
6	0.27 in
7	1.04 in
8	0 in
12	0.14 in
13	0.05 in
14	0 in
15	0.28 in
16	0 in
17	0.31 in
18	0.99 in
19	0.08 in
20	0.01 in
21	0 in
22	0.01 in
23	0 in
24	0.01 in
25	0.01 in
26	0.01 in
27	0 in
28	0 in
29	0.01 in
30	0.1 in

2013	Precip. Accum.
Dec	Sum
1	0.61 in
2	0.02 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0.01 in
11	0 in
12	0.23 in
13	0 in
14	0 in
15	0.05 in
16	0.01 in
17	0 in
18	0.01 in

Weather History for Swantown Marina
Downloaded from https://www.wunderground.com/personal-weather-station/dashboard?ID=KWAOLYMP8#history/

Precipitation Data

19	0 in
20	0.17 in
21	0.06 in
22	0.02 in
23	0.22 in
24	0 in
25	0 in
26	0 in
27	0.01 in
28	0 in
29	0 in
30	0 in
31	0.06 in

2014	Precip. Accum.
Jan	Sum
1	0.01 in
2	0.14 in
3	0 in
4	0.01 in
5	0.01 in
6	0.2 in
7	0.23 in
8	0.49 in
9	0.37 in
10	0.53 in
11	1.54 in
12	0.23 in
13	0.07 in
14	0 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0.01 in
20	0 in
21	0 in
22	0.02 in
23	0 in
24	0 in
25	0.01 in
26	0.01 in
27	0.01 in
28	0.48 in
29	0.35 in
30	0.13 in
31	0.05 in

2014	Precip. Accum.
Feb	Sum
1	0.05 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0.28 in
10	0.43 in
11	0.87 in
12	0.53 in
13	0.09 in
14	0.54 in
15	0.66 in
16	0.93 in
17	0.86 in
18	0.91 in
19	0.37 in
20	0.33 in
21	0.02 in
22	0 in
23	0.2 in
24	0.76 in
25	0 in
26	0 in
27	0 in
28	0 in

2014	Precip. Accum.
Mar	Sum
1	0 in
2	0.6 in
3	0.43 in

Precipitation Data

4	0.33 in
5	1.13 in
6	0.64 in
7	0 in
8	1.64 in
9	0.33 in
10	0.06 in
11	0 in
12	0.01 in
13	0.02 in
14	0.43 in
15	0.01 in
19	0.12 in
20	0 in
21	0 in
22	0 in
23	0 in
24	0 in
25	0.15 in
26	0.25 in
27	0.25 in
28	0.78 in
29	0.66 in
30	0.07 in
31	0.01 in

2014	Precip. Accum.
Apr	Sum
1	0 in
2	0 in
3	0.23 in
4	0.09 in
5	0.25 in
6	0 in
7	0 in
8	0.2 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0.01 in
16	0.09 in
17	0.53 in
18	0 in
19	0.58 in
20	0 in
21	0.11 in
22	0.22 in
23	0.62 in
24	0.44 in
25	0.15 in
26	0.35 in
27	0.42 in
28	0.08 in
29	0 in
30	0 in

2014	Precip. Accum.
May	Sum
1	0 in
2	0 in
3	0.83 in
4	0.43 in
5	0.22 in
6	0 in
7	0 in
8	0.45 in
9	0.22 in
10	0 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0 in
16	0 in
17	0.06 in
18	0.1 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0.2 in
24	0 in

Weather History for Swantown Marina
Downloaded from https://www.wunderground.com/personal-weather-station/dashboard?ID=KWAOLYMP8#history/

Precipitation Data

25	0.29 in
26	0 in
27	0.03 in
28	0 in
29	0 in
30	0 in
31	0 in

2014	Precip. Accum.
Jun	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0.31 in
13	0.07 in
14	0 in
15	0.02 in
16	0.03 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0.04 in
24	0 in
25	0 in
26	0.01 in
27	0.33 in
28	0.11 in
29	0 in
30	0 in

2014	Precip. Accum.
Jul	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0.24 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0 in
30	0 in
31	0 in

2014	Precip. Accum.
Aug	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in

Precipitation Data

8	0 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0.44 in
14	0.92 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0 in
30	1.05 in
31	0 in

2014	Precip. Accum.
Sep	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0 in
16	0 in
17	0.1 in
18	0.02 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0.3 in
24	0.29 in
25	0.12 in
26	0.1 in
27	0.1 in
28	0.08 in
29	0.07 in
30	0.05 in

2014	Precip. Accum.
Oct	Sum
1	0.05 in
2	0.04 in
3	0.03 in
4	0.02 in
5	0.01 in
6	0.01 in
7	0.01 in
8	0 in
9	0.01 in
10	0 in
11	0.01 in
12	0.02 in
13	0.02 in
14	0.03 in
15	0.03 in
16	0.03 in
17	0.03 in
18	0.07 in
19	0.06 in
20	0.05 in
21	0.07 in
22	0.12 in
23	0.2 in
24	0.17 in
25	0.07 in

Weather History for Swantown Marina
Downloaded from https://www.wunderground.com/personal-weather-station/dashboard?ID=KWAOLYMP8#history/

Precipitation Data

27	0.11 in
28	0.1 in
29	0.05 in
30	0.08 in
31	0.08 in

2014	Precip. Accum.
Nov	Sum
1	0.07 in
2	0.06 in
3	0.07 in
4	0.04 in
5	0.05 in
6	0.06 in
7	0.04 in
8	0.04 in
9	0.04 in
10	0.03 in
11	0.02 in
12	0.04 in
13	0.01 in
14	0.36 in
15	0.8 in
16	0.22 in
17	0.05 in
18	0 in
19	0.01 in
20	0.03 in
21	0.89 in
22	0.36 in
23	0.43 in
24	0.23 in
25	0.62 in
26	0.1 in
27	0.23 in
28	0.2 in
29	0.07 in
30	0.05 in

2014	Precip. Accum.
Dec	Sum
1	0.14 in
2	0.25 in
3	0 in
4	0.01 in
5	0.13 in
6	0.18 in
7	0.01 in
8	0.23 in
9	0.58 in
10	0.53 in
11	0.29 in
12	0.24 in
13	0 in
14	0.01 in
15	0.01 in
16	0.03 in
17	0.07 in
18	0.45 in
19	0.07 in
20	1.71 in
21	0.36 in
22	0 in
23	0.38 in
24	0.2 in
25	0 in
26	0 in
27	0.28 in
28	0.06 in
29	0.24 in
30	0 in
31	0 in

2015	Precip. Accum.
Jan	Sum
1	0 in
2	0.03 in
3	0 in
4	1.94 in
5	0.91 in
6	0 in
7	0.01 in
8	0 in
9	0 in

Weather History for Swantown Marina
Downloaded from https://www.wunderground.com/personal-weather-station/dashboard?ID=KWAOLYMP8#history/

Precipitation Data

10	0.09 in
11	0.09 in
12	0 in
13	0 in
14	0 in
15	0.49 in
16	0.03 in
17	1.11 in
18	0.14 in
19	0.05 in
20	0 in
21	0.02 in
22	0.05 in
23	0.3 in
24	0.04 in
25	0 in
26	0.01 in
27	0.01 in
28	0 in
29	0.01 in
30	0 in
31	0.01 in

2015	Precip. Accum.
Feb	Sum
1	0.1 in
2	0.3 in
3	0.01 in
4	0.3 in
5	0.74 in
6	0.77 in
7	1.15 in
8	0.28 in
9	0.16 in
10	0.02 in
11	0.01 in
12	0.04 in
13	0 in
14	0 in
15	0.01 in
16	0.01 in
17	0 in
18	0 in
19	0.03 in
20	0 in
21	0.01 in
22	0.01 in
23	0 in
24	0 in
25	0.07 in
26	0.14 in
27	0.62 in
28	0 in

2015	Precip. Accum.
Mar	Sum
1	0 in
2	0 in
3	0.01 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0.01 in
11	0.19 in
12	0.02 in
13	0 in
14	1.15 in
15	2.08 in
16	0.01 in
17	0.03 in
18	0.01 in
19	0 in
20	0.22 in
21	0.28 in
22	0.08 in
23	0.56 in
24	0.15 in
25	0.35 in
26	0 in
27	0.06 in
28	0.05 in
29	0 in

Precipitation Data

30	0.04 in
31	0.2 in

2015	Precip. Accum.
Apr	Sum
1	0.03 in
2	0 in
3	0.18 in
4	0 in
5	0 in
6	0 in
7	0.08 in
8	0 in
9	0 in
10	0.57 in
11	0.08 in
12	0.01 in
13	0.13 in
14	0.06 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0.12 in
24	0.3 in
25	0.04 in
26	0.01 in
27	0.01 in
28	0 in
29	0.13 in
30	0 in

2015	Precip. Accum.
May	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0.15 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0.01 in
12	0.21 in
13	0.14 in
14	0.01 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0.05 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0 in
30	0 in
31	0 in

2015	Precip. Accum.
Jun	Sum
1	0.14 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0 in

Weather History for Swantown Marina
Downloaded from https://www.wunderground.com/personal-weather-station/dashboard?ID=KWAOLYMP8#history/

Precipitation Data

13	0 in
14	0 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0.11 in
29	0 in
30	0 in

2015	Precip. Accum.
Jul	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0.07 in
12	0 in
13	0 in
14	0 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0 in
30	0 in
31	0 in

2015	Precip. Accum.
Aug	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0 in
14	0.11 in
15	0.07 in
16	0.05 in
17	0.03 in
18	0.03 in
19	0.01 in
20	0.01 in
21	0.01 in
22	0 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0.09 in
29	0.01 in
30	0.04 in

Precipitation Data

31	0.02 in

2015	Precip. Accum.
Sep	Sum
1	0.02 in
2	0.02 in
3	0.02 in
4	0.01 in
5	0.01 in
6	0.02 in
7	0.01 in
8	0.01 in
9	0.02 in
10	0 in
11	0.01 in
12	0.01 in
13	0 in
14	0.01 in
15	0 in
16	0.01 in
17	0 in
18	0 in
19	0.01 in
20	0 in
21	0 in
22	0.01 in
23	0.4 in
24	0 in
29	0 in
30	0 in

2015	Precip. Accum.
Oct	Sum
1	0 in
2	0.03 in
3	0 in
4	0 in
5	0 in
6	0 in
3	0 in
4	0.04 in
5	0.06 in
6	0 in
7	0.38 in
8	0.18 in
9	0.01 in
10	0.07 in
11	0.16 in
12	1.01 in
13	1.63 in
15	0.48 in
16	0.79 in
17	1.53 in
18	0.11 in
19	0.07 in
20	0.01 in
21	0.01 in
22	0 in
23	0.11 in
24	0.18 in
25	0 in
26	0 in
27	0.01 in
28	0.01 in
29	0.01 in
30	0.01 in

2015	Precip. Accum.
Dec	Sum
1	0.71 in
2	0.06 in
3	0.42 in
4	0.24 in
5	0.32 in
6	0.43 in
7	0.72 in
8	1.68 in
9	0.41 in
10	0.88 in
11	0.13 in
12	0.64 in
13	0.25 in
14	0 in
15	0 in

Precipitation Data

16	0.01 in
17	0.99 in
18	0.57 in
19	0.03 in
20	0.37 in
21	0.78 in
22	0.37 in
23	0.55 in
24	0.14 in
25	0.02 in
26	0 in
27	0.42 in
28	0.05 in
29	0 in
30	0.01 in
31	0.01 in
2016	Precip. Accum.
Jan	Sum
1	0 in
2	0.01 in
3	0.02 in
4	0.26 in
5	0.11 in
6	0.01 in
7	0.01 in
8	0 in
9	0 in
10	0.01 in
11	0.16 in
12	0.11 in
13	0.08 in
14	0 in
15	0.17 in
16	0.64 in
17	0.28 in
18	0.08 in
19	0.29 in
20	0.45 in
21	1.39 in
22	0.17 in
23	0.36 in
24	0 in
25	0 in
26	0.04 in
27	0.78 in
28	0.64 in
29	0.5 in
30	0.05 in
31	0.02 in
2016	Precip. Accum.
Feb	Sum
1	0.01 in
2	0.05 in
3	0.39 in
4	0.29 in
5	0.5 in
6	0.2 in
7	0 in
8	0 in
9	0 in
10	0.04 in
11	0.37 in
12	0.5 in
13	0.67 in
14	0.23 in
15	0.19 in
16	0.1 in
17	0.31 in
18	0.18 in
19	0.55 in
20	0.18 in
21	0.17 in
22	0.06 in
23	0 in
24	0 in
25	0.01 in
26	0.17 in
27	0.12 in
28	0.46 in
29	0.22 in
2016	Precip. Accum.

Precipitation Data

Mar	Sum
1	1.43 in
2	0.23 in
3	0.11 in
4	0.22 in
5	0.21 in
6	0.69 in
7	0.31 in
8	0.12 in
9	1.18 in
10	0.44 in
11	0.26 in
12	0.29 in
13	0.43 in
14	0.62 in
15	0.07 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0.31 in
21	0.43 in
22	0.05 in
23	0.29 in
24	0.32 in
25	0 in
26	0.26 in
27	0.1 in
28	0 in
29	0 in
30	0 in
31	0 in

2016	Precip. Accum.
Apr	Sum
1	0 in
2	0 in
3	0.22 in
4	0.17 in
5	0.01 in
6	0 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0.45 in
13	0.23 in
14	0.14 in
15	0.01 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0.25 in
23	0.03 in
24	0.07 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0.02 in
30	0 in

2016	Precip. Accum.
May	Sum
1	0 in
2	0 in
3	0 in
4	0.01 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0.01 in
10	0 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0.01 in
16	0 in
17	0 in

Weather History for Swantown Marina
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Precipitation Data

18	0 in
19	0.01 in
20	0 in
21	0.12 in
22	0.01 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0.06 in
29	0 in
30	0 in
31	0 in

2016	Precip. Accum.
Jun	Sum
1	0.08 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0 in
9	0.17 in
10	0.48 in
11	0 in
12	0 in
13	0.04 in
14	0.35 in
15	0.01 in
16	0 in
17	0.05 in
18	0 in
19	0 in
20	0.01 in
21	0 in
22	0.05 in
23	0.42 in
24	0.01 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0 in
30	0 in

2016	Precip. Accum.
Jul	Sum
1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0.11 in
8	0.11 in
9	0.09 in
10	0.01 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0.02 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0 in
30	0 in
31	0 in

2016	Precip. Accum.
Aug	Sum

Precipitation Data

1	0 in
2	0 in
3	0 in
4	0 in
5	0 in
6	0 in
7	0.13 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0 in
16	0 in
17	0 in
18	0 in
19	0 in
20	0 in
21	0 in
22	0 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
29	0 in
30	0 in
31	0.12 in

2016	Precip. Accum.
Sep	Sum
1	0.34 in
2	0.03 in
3	0 in
4	0.03 in
5	0.04 in
6	0.3 in
7	0 in
8	0 in
9	0 in
10	0 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0 in
16	0 in
17	0.34 in
18	0.01 in
19	0.18 in
20	0 in
21	0.01 in
22	0 in
23	0.28 in
24	0 in
25	0 in
26	0 in
27	0.01 in
28	0 in
29	0 in
30	0 in

2016	Precip. Accum.
Oct	Sum
1	0.2 in
2	0.1 in
3	0.02 in
4	0.23 in
5	0.16 in
6	0.33 in
7	0.43 in
8	0.58 in
9	0.3 in
10	0 in
11	0 in
12	0.05 in
13	1.69 in
14	1.64 in
15	0.77 in
16	0.76 in
17	0.44 in
18	0.2 in
19	0.42 in

Weather History for Swantown Marina
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Precipitation Data

20	1.14 in
21	0.3 in
22	0.09 in
23	0.01 in
24	0.05 in
25	0.02 in
26	1.06 in
27	0.03 in
28	0.01 in
29	0.06 in
30	0.37 in
31	0.55 in

2016	Precip. Accum.
Nov	Sum
1	0.24 in
2	0.48 in
3	0.01 in
4	0.04 in
5	0.95 in
6	0.11 in
7	0.09 in
8	0.01 in
9	0.08 in
10	0.01 in
11	0.01 in
12	0.49 in
13	0.62 in
14	0.64 in
15	1.02 in
16	0.09 in
17	0 in
18	0.04 in
19	0.12 in
20	0.14 in
21	0.15 in
22	0.48 in
23	0.5 in
24	1.6 in
25	0.13 in
26	0.76 in
27	0.4 in
28	0 in
29	0.08 in
30	0.42 in

2016	Precip. Accum.
Dec	Sum
1	0 in
2	0.36 in
3	0.43 in
4	0.13 in
5	0.25 in
6	0.01 in
7	0.01 in
8	0 in
9	0.7 in
10	0.53 in
11	0.53 in
12	0.11 in
13	0 in
14	0 in
15	0.04 in
16	0 in
17	0 in
18	0 in
19	1.07 in
20	0.26 in
21	0 in
22	0.16 in
23	0.84 in
24	0 in
25	0 in
26	0.81 in
27	0.2 in
28	0 in
29	0.08 in
30	0 in
31	0.11 in

2017	Precip. Accum.
Jan	Sum
1	0.14 in
2	0 in

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Precipitation Data

3	0 in
4	0 in
5	0 in
6	0 in
7	0 in
8	0.61 in
9	0.05 in
10	0.3 in
11	0 in
12	0 in
13	0 in
14	0 in
15	0 in
16	0 in
17	1.16 in
18	0.69 in
19	0.15 in
20	0.04 in
21	0.18 in
22	0.06 in
23	0 in
24	0 in
25	0 in
26	0 in
27	0 in
28	0 in
29	0.02 in
30	0 in
31	0 in

2017	Precip. Accum.
Feb	Sum
1	0 in
2	0.02 in
3	0.56 in
4	0.87 in
5	0.38 in
6	0.67 in
7	0.01 in
8	0.95 in
9	1.29 in
10	0.2 in
11	0.01 in
12	0.01 in
13	0 in
14	0.49 in
15	1.32 in
16	0.12 in
17	0.02 in
18	0.36 in
19	0.27 in
20	0.26 in
21	0.13 in
22	0 in
23	0.16 in
24	0 in
25	0.01 in
26	0.4 in
27	0.13 in
28	0.07 in

2017	Precip. Accum.
Mar	Sum
1	0.14 in
2	0.46 in
3	1.03 in
4	0.32 in
5	0.22 in
6	0.23 in
7	0.74 in
8	0.27 in
9	1.01 in
10	0.05 in
11	0.41 in
12	0.01 in
13	0.45 in
14	0.87 in
15	0.68 in
16	0.01 in
17	1.01 in
18	0.42 in
19	0 in
20	0.09 in
21	0.15 in
22	0.23 in

Weather History for Swantown Marina
Downloaded from https://www.wunderground.com/personal-weather-station/dashboard?ID=KWAOLYMP8#history/

Precipitation Data

23	0.43 in
24	0.42 in
25	0.09 in
26	0.53 in
27	0.03 in
28	0.54 in
29	0.71 in
30	0.06 in
31	0 in

2017	Precip. Accum.
Apr	Sum
1	0.01 in
2	0 in
3	0 in

Weather History for Swantown Marina
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