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March 19, 2018

Ms. Tricia Miller
Water Quality Permit Coordinator
Northwest Regional Office
Washington Department of Ecology
3190 160th AVE SE
Bellevue WA 98008-5452

RE: NPDES permit extension for WA0030830 issued to Pacific Coast Coal Company (PCCC)

Dear Ms. Miller:

We received your letter dated January 24, 2018 informing us that DOE has determined that we must reapply for a new NPDES permit because we've not engaged in coal mining operations since 1999. You listed several premises for making this determination. As shown below, most of these are without basis.

Premise Number 1: You claim that in 2014 PCCC was neither operating nor in a condition to operate without significant improvements. This is not true. In fact, the overwhelming body of evidence is that we were ready to operate but could not because the Office of Surface Mining Reclamation and Enforcement (OSMRE) had not approved our federal permit renewal and revision applications. It is a mystery to us what "significant improvements" you are referring to? Mr. Gerald Shervey, P.E. and Monika Kannadaguli from DOE inspected the mine site on August 12, 2014 and noted that while PCCC was not mining at the time, it expected to mine coal within the next five years. DOE's inspection report erroneously stated that PCCC did not have any contracts for mining or processing of coal. This is not correct. PCCC did have a contract to sell coal to Lehigh Cement Company. The facts will show that except for renewal of PCCC's federal permit all other key permits were in effect and that PCCC would have been able to start producing coal within a month of receiving permit renewal and revision approval from OSMRE in 2014.

Premise Number 2: You state that resuming mining operations will possibly result in more exposed soil and changes to the discharge quality. This conclusion is without basis and contrary to conclusions expressed in the NEPA Environmental Assessment (EA). DOE participated in the EA review process. The NPDES and subsequent renewals were based on a mining and reclamation plan that disturbed over 300 acres and mined 250,000 tons per year of coal. Our revised plan only disturbs 29.7 new

acres through the remaining mine life resulting in 302.9 total acres of disturbed ground (EA p 19). New ground disturbed to produce only 84,000 tons per year is within the footprint of the operating pit. Water in that area is fully captured in the pit before being pumped into one of the existing sediment control ponds. OSMRE concludes (EA p 30, 31):

Although the potential effects of the Proposed Action Alternative on surface water quality will be greater compared to the recent period of inactivity, impacts are anticipated to be less than those experienced during prior periods of active mining. Reduced impacts are expected due to the small area of additional disturbance (29.7 acres), and to additional measures being implemented to control and treat surface water runoff.

Impacts to surface water quantity, as a result of previous mining and reclamation operations, have been minor. The dewatering of mine pits and pumping of water throughout the mine site impacts discharge into the Mud Lake Creek and Ginder Creek sub-watersheds. Both of these sub-watersheds discharge into Ginder Creek, which in turn discharges into Rock Creek and Lake Sawyer. The large-scale effects of runoff variations at the John Henry No. 1 Mine in the 1993-2015 dataset are minimal when evaluated against their effect in the local area. Consequently, the Proposed Action Alternative will result in a similar surface water quantity impact observed during the previous mining period and constitutes a minor and short-term impact.

OSMRE determined that our 2011 application was a significant permit revision due to changes in coal production and resumption of blasting. You failed to note that the reason given also included "high public interest in the operation, likely public interest in the revision." Those are the real reasons that OSMRE deemed it significant and subject to NEPA review. If it was just the change in coal production from zero to 84,000 tons per year and the resumption of blasting OSMRE would not likely have deemed it significant and subject to NEPA review. At 84,000 tons per year we are the smallest coal mine located west of the Mississippi and hardly deemed significant by industry standards. As OSMRE notes (EA p 31):

Because the amount of coal being hauled under the Proposed Action Alternative is small (approximately 84,000 tons per year). Negligible indirect impacts to surface water resources are anticipated.

Premise Number 3: DOE claims this is a new advancement in project status and that has limited facility operations information available to it. At the same time, you admit to participating in the EA review process. That process began in 2011 and OSMRE has been careful to keep DOE apprised of the project process throughout their extended review. The EA contains extensive operational information that DOE has reviewed. DOE also periodically inspects the mine and receives monthly OSMRE inspection reports.

DOR also claims not to be aware of any reclamation work done at the facility in the past two decades. Again, the EA is clear that much of the previously disturbed ground has been covered with topsoil and planted with Douglas fir. OSMRE also confirmed that considerable backfilling of overburden from Spoil Pile 2 was completed in 2010-11 (EA p6):

.....and in the fourth quarter of 2010 and January 2011 PCCC reclaimed a portion of Spoil Pile 2 by backfilling 572,000 CY of fill into Pits 1 and 2.

Premise Number 4: DOE is requesting specific project plans, treatment plans and wastewater characterization to re-evaluate the impacts of the newly proposed project on groundwater and surface water. Your premise that this is a newly proposed project is false. It is also somewhat puzzling how DOE can reach this conclusion given the fact that you participated in the EA review process. Throughout the EA, it is made clear that this is not a newly proposed project but simply the extension of the same project that DOE has been monitoring since mining began in 1986.

Contrary to DOE's apparent assumption, the mine plan has not changed since the permit was issued in 2008. It is the same basic mine plan for Pit 2 that has been in place since completion of the NEPA and SEPA EIS's in 1985 and DOE's review and issuance of a new permit in 2008. We do not intend to change the mining and reclamation plan nor change any facilities. It is the same plan that DOE has been reviewing for the past 30 years.

In April 2009 OSMRE issued a permit revision order that required PCCC to resume mining or move into final reclamation efforts. They also required that PCCC obtain a contract to sell coal. In April 2010 PCCC began mining but did not have a contract to sell the coal as it was to be sold on the spot market. This was not consistent with OSMRE's 2009 revision order. OSMRE thus ordered the cessation of mining and further ordered that the permit application package (PAP) be revised to eliminate coal mining and initiate final reclamation. This change in the mining plan was done under duress in May 2010. PCCC completed some final reclamation in 2010 and 2011 by dozing approximately 600,000 cubic yards of dirt from exterior spoil stockpile 2 into Pits 1 and 2. In April 2011 Pacific obtained a contract to sell coal. With direction from OSMRE, Pacific submitted a permit revision request to revert to the identical mining and reclamation plan in effect prior to their order to stop mining. Even though the plan remained the same and the annual production rate was substantially less than approved previously, OSMRE decided that this was a significant permit revision that triggered an EA. That EA was published in April 2014 and resulted in extensive comments. OSMRE decided to improve their first EA. This resulted in the revised EA being published in September 2017. OSMRE is in the process of reviewing comments on the new EA including those submitted by DOE. It expects a decision, regarding permit renewal and revision, during the next few months.

Conclusion

As noted above, your rationale for requiring a new permit is without basis. Nonetheless we are submitting the required application forms 1 and 2C. This includes tabulated water quality monitoring data and statistical analyses through December 31, 2017. We'll continue to monitor and operate in accordance with the current permit while DOE processes the new application.


We've also included (in electronic format) a copy of the recently completed Technical Information (Engineering) Report that was recently completed by ESM Consulting Engineers. This report was also requested by King County.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "David J. Morris". The signature is fluid and cursive, with the first name "David" being more prominent.

David J. Morris, P.E.

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

FORM 1 GENERAL	 U.S. ENVIRONMENTAL PROTECTION AGENCY/ECOLGY GENERAL INFORMATION <i>Consolidated Permits Program</i> (Read the "General Instructions" before starting.)	1. Current permit I.D.		T/A	C
		WA-003083-0			D
				14	15

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit a NPDES permit application forms to Ecology. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

	MARK "X"				MARK "X"		
	YES	NO	FORM ATTACHED		YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B. Does or will this facility (<i>either existing or proposed</i>) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. Is this facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C) Does this facility operate a cooling water intake structure? (FORM 2C Supplemental)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	D. Is this proposal facility (<i>other than those described in A or B above</i>) which will result in a discharge to waters of the U.S.? (FORM 2D)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
G. Do you or will you inject at this facility any produced water other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

III. NAME OF FACILITY

C	John Henry No. 1 Mine
1	

IV. FACILITY CONTACT

A. NAME & TITLE (<i>last, first, & title</i>)		B. PHONE (<i>area code & no.</i>)	
C	Morris, David General Manager	360	886 1060
2			
B. EMAIL ADDRESS		C. Does the facility have or can it obtain broadband internet access?	
C	Pacific.coast.coal@gmail.com	<input checked="" type="checkbox"/>	<input type="checkbox"/> No
2			

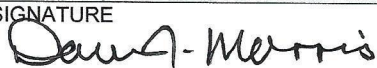
V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX			
C	P.O. Box 450		
3			
B. CITY OR TOWN		C. STATE	D. ZIP CODE
C	Black Diamond	WA	98010-0450
4			

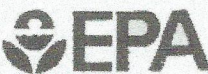
VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER			
C	30700 Black Diamond – Ravensdale RD		
5			
B. COUNTY NAME			
King			
C. CITY OR TOWN		D. STATE	E. ZIP CODE
C	Black Diamond	WA	98010
6			
D. LATITUDE/LONGITUDE (NAD 83 DATUM)			
7			
LATITUDE AS DECIMAL DEGREES– N4			
LONGITUDE AS DECIMAL DEGREES – W1			

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VII. SIC, NAICS CODES (in order of priority) AND UBI NUMBER Place additional on an attachment.										
SIC FIRST					SIC. SECOND					
C	7	1221	Bituminous coal Surface Mining		7	7	(specify)			
EQUIVALENT NAICS FIRST					EQUIVALENT NAICS SECOND					
C	7	212111	Bituminous Coal Surface Mining and Beneficiating		7	7	(specify)			
UBI NUMBER -										
VIII. OPERATOR INFORMATION										
A. NAME								B. Is the name listed in Item VIII-A also the owner?		
C	8	Pacific Coast Coal Company						x <input type="checkbox"/> YES <input type="checkbox"/> NO		
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other," specify.)						D. PHONE (area code & no.)				
F = FEDERAL		M = PUBLIC (other than federal or state)		P (specify)		C	A	360	886	1060
S = STATE		O = OTHER (specify)								
P = PRIVATE										
E. STREET OR PO BOX										
P.O. Box 450										
F. CITY OR TOWN				G. STATE		H. ZIP CODE		IX. INDIAN LAND		
C	B	Black Diamond		WA		98010-0450		Is the facility located on Indian lands?		
								<input type="checkbox"/> YES <input type="checkbox"/> NO		
X. EXISTING ENVIRONMENTAL PERMITS										
A. NPDES (Discharges to Surface Water)					D. PSD (Air Emissions from Proposed Sources)					
C	T	I	WA-003083-0		C	T	8			
9	N				9	P				
B. UIC (Underground Injection of Fluids)					E. OTHER (specify)					
C	T	I			C	T	8	(Specify)		
9	U				9					
C. RCRA (Hazardous Wastes)					E. OTHER (specify)					
C	T	I			C	T	8	(Specify)		
9	R				9					
XI. MAP										
Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.										
XII. NATURE OF BUSINESS (provide a brief description)										
Surface Coal Mining and Beneficiating										
XIII. CERTIFICATION (see instructions)										
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.										
A. NAME & OFFICIAL TITLE (type or print)					B. SIGNATURE			3-19-2018		
David J. Morris										

To ask about the availability of this document in a version for the visually impaired, call the Water Quality Program at 360-407-6600, Relay Service 711, or TTY 877-833-6341.

Please type or print in the unshaded areas only		EPA ID Number (Copy from Item 1 of Form 1) WA-003083-0		Form Approved OMB No. 2040-0086 Approval expires 8-31-98	
Form 2C NPDES				U.S. ENVIRONMENTAL PROTECTION AGENCY APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS Consolidated Permits Program	
I. Outfall Location					
For this outfall, list the latitude and longitude, (degrees, min.xxxx) and name of the receiving water(s)					
Outfall Number (list)	Latitude Deg Min		Longitude Deg Min		Receiving Water (name)
					See accompanying site map and coordinate list
					for outfall and monitoring point locations
					and coordinates.
II. Flows, Sources of Pollution, and Treatment Technologies					
A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed description in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.					
B. For each outfall, provide a description of (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.					
1. Outfall No. (list)	2. Operations Contributing Flow		3. Treatment		
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
Pond B	Stormwater from active mine & facilities area	0.53 cfs	Settling Pond w/ flocculant	1-U	2-D
Pond F&G	Stormwater from active mine & facilities area	0.19 cfs	Settling Pond w/ flocculant	1-U	2-D
Pond H1	Stormwater from active mine area	0.18 cfs	Settling Pond w/ flocculant	1-U	2-D
Pond H2	Stormwater from active mine area	0.25 cfs	Settling Pond w/ flocculant	1-U	2-D
Pond I	Stormwater from active mine area; pit pumpage	0.84 cfs	Settling Pond w/ flocculant	1-U	2-D
001-Pond B,F,G	Stormwater from active mine & facilities area	0.58 cfs	Settling Ponds w/ flocculant	1-U	2-D
002-Pond H1,H2,I	Stormwater from active mine area; pit pumpage	1.81 cfs	Settling Ponds w/ flocculant	1-U	2-D
003-Pond A	Stormwater from reclaimed mine area	0.07 cfs	Settling Pond	1-U	
008/010-Pond A'	Stormwater from reclaimed mine area	0.04 cfs	Settling Pond	1-U	

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C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ **YES** (complete the following table)☒ **NO** (go to Section III)[illegible]

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ **YES** (complete Item III-B)

☐ **NO** (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

☐ **YES** (complete Item III-C)☐ **NO** (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

[illegible]

IV. IMPROVEMENTS

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ **YES** (complete the following table)

☐ **NO** (go to Item IV-B)

[illegible]

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAM IS ATTACHED

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

NOTE: Tables V-A, V-B, and V-C are included on separate sheets number V-1 through V-9.

D: Use the space below to list any of the pollutants listed in Tables 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

[illegible]

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (list all such pollutants below)

☒ **NO** (go to Item VI-B)

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (identify the test(s) and describe their purpose below)

☒ NO (go to Section VIII)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☐ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☐ NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
		()	
		()	
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		()	

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)

David J. Morris, General Manager

B. PHONE NO. (area code & no.)

(360) 886-1060

C. SIGNATURE

David J. Morris

D. DATE SIGNED

03/19/2018

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)
WA-003083-0

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)	4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)			d. NO. OF ANALYSIS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)											
b. Chemical Oxygen Demand (COD)											
c. Total Organic Carbon (TOC)											
d. Total Suspended Solids (TSS)											
e. Ammonia (as N)											
f. Flow	Value		Value		Value			Value			
g. Temperature (winter)	Value		Value		Value		°C	Value			
h. Temperature (summer)	Value		Value		Value		°C	Value			
i. pH	Minimum	Maximum	Minimum	Maximum			STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitation guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT				4. UNITS (specify if blank)		5. INTAKE (optional)			
	a. BE-LIABLE PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSIS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
a. Bromide (24959-67-9)	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
b. Chlorine Total Residual	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
c. Color	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
d. Fecal Coliform	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
e. Fluoride (16984-48-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
f. Nitrate-Nitrite (as N)	<input type="checkbox"/>	<input checked="" type="checkbox"/>										

ITEM V-B CONTINUED FROM FRONT

1. POLLUT- ANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT				4. UNITS (specify if blank)		5. INTAKE (optional)						
	a. BE- LIEVE D PRES- ENT	b. BE- LIEVE D AB- SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSIS	a. CONCENTRATION		b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRA TION	(2) MASS	(1) CONCENTRATI ON	(2) MASS	(1) CONCENTRATI ON	(2) MASS		(1) CONCENTRATI ON	(2) MASS				
g. Nitrogen, Total Organic (as N)	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
h. Oil and Grease	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
i. Phosphorus (as P), Total (7723-14-0)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See	spread	sheets										
j. Radioactivity															
(1) Alpha, Total	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
(2) Bets, Total	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
(3) Radium, Total	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
(4) Radium 226, Total	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
k. Sulfate (as SO ₄) (14808-79-8)	<input checked="" type="checkbox"/>	<input type="checkbox"/>													
l. Sulfide (as S)	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
m. Sulfite (as SO ₃) (14265-45-3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
n. Surfactants	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
o. Aluminum, Total (7429-90-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
p. Barium, Total (7440-39-3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
q. Boron, Total (7440-42-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
r. Cobalt, Total (7440-48-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
s. Iron, Total (7439-86-4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See	spread	sheets										
t. Magnesium, Total (7439-96-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
u. Molybdenum, Total (7439-98-7)	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
v. Manganese, Total (7439-96-5)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See	spread	sheets										
w. Tin, Total (7440-31-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
x. Titanium, Total (7440-32-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>													

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant. If you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater, if you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS (specify if blank)		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION (2) MASS		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1m. Antimony, Total (7440-36-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
2M. Arsenic, Total (7440-38-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See	sprea	dsheet									
3M. Beryllium, Total (7440-41-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
4M. Cadmium, Total (7440-43-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
5M. Chromium, Total (7440-47-3)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See	sprea	dsheet									
6M. Copper, Total (7440-50-8)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See	sprea	dsheet									
7M.lead, Total (7439-92-1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See	sprea	dsheet									
8M. Mercury, Total (7439-97-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
9M. Nickel, Total (7440-02-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
10M. Selenium, Total (7782-49-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
11M. Silver, Total (7440-22-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
12M. Thallium, Total (7440-28-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
13M. Zinc, Total (7440-66-6)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	See	sprea	dsheet									
14M. Cyanide, Total (57-12-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
15M. Phenols, Total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
DIOXIN															
2,3,7,8-tetra-chlorodibenzo-P-Dioxin (1764-01-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	DESCRIBE RESULTS											

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1. POLLUT- ANT AND CAS NO. (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS (specify if blank)			5. INTAKE (optional)			
	a. TEST- ING RE- QUIRED	b. BE- LIEVED PRESENT	c. BE- LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. (if available)		d. NO. OF ANALYSI S	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSE S	
				(1) CONCENT- RATION	(2) MASS	(1) CONCENT- RATION	(2) MASS	(1) CONCENT- VALUE	(2) MASS				(1) CONCENTRA TION	(2) MASS		
GC/MS - VOLATILE COMPOUNDS																
1V. Acrolein (107-02-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
2V. Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
3V. Benzene (71-43-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
4V. Bis (Chloro-methyl) Ether (542-88-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
5V. Bromoform (75-25-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
6V. Carbon Tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
7V. Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
8V. Chlorodi-bromomethane (124-48-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
9V. Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
10V. 2-Chloro-ethylvinyl Ether (102-75-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
11V. Chloroform (67-66-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
12V. Dichloro-bromoethane (75-27-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
13V. Dichloro-difluoromethane (75-71-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
14V. 1,1-Dichloro-ethane (75-27-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
15V. 1,2-Dichloro-ethane (107-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
16V. 1,1-Dichloro-ethylene (7535-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
17V. 1,2-Dichloro-propane (78-57-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
18V. 1,3-Dichloro-propylene (542-75-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
19V. Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
20V. Methyl Bromide (74-83-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
21V. Methyl Chloride (74-87-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													

1. POLLUT- ANT AND CAS NO. (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. TEST- ING RE- QUIRED	b. BE- LIEVED PRE- SENT	c. BE- LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSI S	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSE S	
				(1) CONCENT- RATION	(2) MASS	(1) CONCENT- RATION	(2) MASS	(1) CONCENT- RATION	(2) MASS		(1) CONCENTRATI ON	(2) MASS		
GC/MS - VOLATILE COMPOUNDS (continued)														
22 V. Methylene Chloride (75-09-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
23V. 1,1,2,2-Tetra- Chloroethane (78- 34-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
24V. Tetrachloro- ethylene (127-18-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
23V. Toluene (106-98-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
28V. 1,2-Trans- Dichloroethylene (156-90-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
27V. 1,1,1-Trifluoro- chloroethane (71-55-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
28V. 1,1,2-Trifluoro- chloroethane (79-00-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
28V. Trichloro- ethylene (79-01-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
30V. Trichloro- fluoromethane (73-69-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
31V. Vinyl Chloride (73-01-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
GC/MS FRACTION - ACID COMPOUNDS														
1A. 2- Chlorophenol (95-57-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
2A. 2,4-Dichloro- phenol (120-83-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
3A. 2,4-Dimethyl- phenol (105-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
4A. 4,6-Dinitro-O- cresol (594-52-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
5A. 2,4-Dinitro- phenol (51-28-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
6A. 2-Nitro-phenol (85-73-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
7A. 4-Nitro-phenol (100-02-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
8A. P-Chloro-M- Cresol (59-50-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
9A. Penta- chlorophenol (87-86-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
10A. Phenol (108-95-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
11A. 2,4,6-Trifluoro- chlorophenol (88-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											

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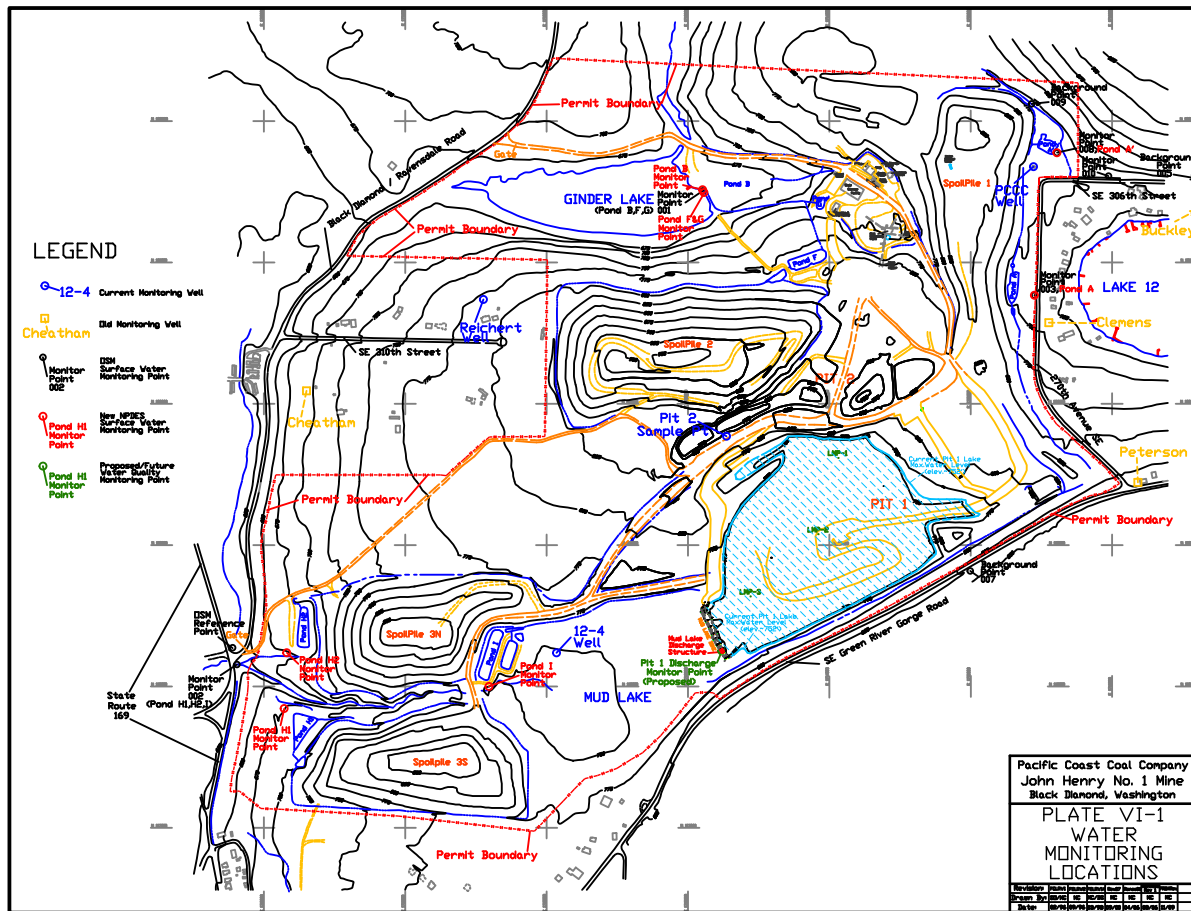
1. POLLUT- ANT AND CAS NO. (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS (Specify if blank)		5. INTAKE (optional)		b. NO. OF ANALYSE S	
	a. TEST- ING RE- QUIRED	b. BE- LIEVED PRESENT	c. BE- LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSI S	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATI ON	(2) MASS	
				(1) CONCENT- RATION	(2) MASS	(1) CONCENT- RATION	(2) MASS	(1) CONCENT- RATION	(2) MASS						
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
2B. Acenaphthylene (208-96-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
3B. Anthracene (120-12-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
4B. Benzidine (92-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
5B. Benzo (a) Anthracene (56-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
6B. Benzo (a) Pyrene (50-32-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
7B. 3,4-Benzo- fluoranthene (205-98-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
8B. Benzo (ghi) Perylene (91-24-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
9B. Benzo (k) Fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
10B. Bis (2- Chloroethoxy) Methane (411-81-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
11B. Bis (2-Chloro- ethyl) Ether (111-54-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
12B. Bis (2- Chloroisopropyl) Ether (108-60-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
13B. Bis(2-Ethyl- hexyl) Phthalate (117-81-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
14 B. 4-Bromo- phenyl Phenyl Ether (101-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
15B. Butyl Benzyl Phthalate (85-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
16B. 2-Chloro- naphthalene (81-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
17B. 4-Chloro- phenyl Phenyl Ether (2005-72-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
18B. Chrysene (218-01-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
19B. Dibenz (a,h) Anthracene (53-70-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
20B. 1,2-Dichloro- benzene (95-50-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												
21B. 1,3-Dichloro- benzene (941-79-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												

1. POLLUT- ANT AND CAS NO. (if available)	2. MARK 'X'			3. EFFLUENT						4 if blank)		5. INTAKE (optional)				
	a. TEST- ING RE- QUIRED	b. BE- LIEVED PRE-SENT	c. BE- LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSI S	a. CONCENT- TRATION		b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSE S
				(1) CONCENT- RATION	(2) MASS	(1) CONCENT- RATION	(2) MASS	(1) CONCENT- RATION	(2) MASS		(1) CONCENTRATI ON	(2) MASS				
GC/MS - BASE/NEUTRAL COMPOUNDS (continued)																
22B. 1,4-Dichloro- benzene (106-46-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
23B. 3,3'-Dichloro- benzidine (91-94-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
24B. Diethyl Phthalate (84-66-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
25B. Dimethyl Phthalate (131-11-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
26B. Di-N-Butyl Phthalate (64-74-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
27B. 2,4-Dinitro- toluene (121-14-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
28B. 2,6-Dinitro- toluene (605-20-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
29B. Di-N-Octyl Phthalate (117-84-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
30B. 1,2-Diphenyl- hydrazine (as Az- benzene) (122-66-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
31B. Fluoranthene (206-44-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
32B. Fluorene (86-73-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
33B. Hexa- chlorobenzene (118-74-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
34B. Hexa- chlorobutadiene (87-68-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
35B. Hexachloro- cyclopentadiene (77-47-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
36B. Hexa- chloroethane (67-72-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
37B. Indeno (1,2,3- cd) Pyrene (183-39-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
38B. Isophorone (78-59-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
39B. Naphthalene (91-20-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
40B. Nitrobenzene (98-95-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
41B. N,N-Nitro- sodimethylamine (62-75-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
42B. N,N-Nitrosdi-N- Propylamine (621-64-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													

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1. POLLUT- ANT AND CAS NO. (if available)	2. MARK 'X'			2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. TEST- ING RE- QUIRED	b. BE- LIEVED PRE-SENT	c. BE- LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSIS		a. LONG TERM AVERAGE VALUE	b. NO. OF ANALYSES	
				(1) CONCENT- RATION	(2) MASS	(1) CONCENT- RATION	(2) MASS	(1) CONCENT- RATION	(2) MASS			(1) CONCENTRA- TION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)														
43B. N-Nitro- sodiiphenylamine (86-30-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
44B. Phenanthrene (85-01-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
45B. Pyrene (129-00-0)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
46B. 1,2,4-Tr- chlorobenzene (120-82-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
GC/MS FRACTION - PESTICIDES														
1P. Aldrin (309-00-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
2P. α-BHC (319-84-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
3P. β-BHC (319-85-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
4P. γ-BHC (68-88-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
5P. δ-BHC (319-86-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
6P. Chlordane (57-74-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
7P. 4,4'-DDT (50-28-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
8P. 4,4'-DDE (72-85-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
9P. 4,4'-DDD (72-54-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
10P. Dieldrin (60-57-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
11P. α-Endo-sulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
12P. β-Endo-sulfan (115-29-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
13P. Endosulfan Sulfate (1031-07-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
14P. Endrin (72-20-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
15P. Endrin Aldehyde (7421-93-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
16P. Heptachlor (76-44-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											

1. POLLUT- ANT AND CAS NO. (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS (specify if blank)		5. INTAKE (optional)		
	a. TEST- ING RE- QUIRED	b. BE- LIEVED PRE- SENT	c. BE- LIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSI S			b. NO. OF ANALYSES	
				(1) CONCENT- RATION	(2) MASS	(1) CONCENT- RATION	(2) MASS	(1) CONCENT- RATION	(2) MASS		a. CONGEN- TRATION	b. MASS		a. LONG TERM AVERAGE VALUE
GC/MS - PESTICIDES (continued)														
17P. Heptachlor Epoxide (1024-57-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
18P. PCB-1242 (53469-21-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
19P. PCB-1254 (11097-69-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
20P. PCB-1221 (11104-28-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
21P. PCB-1232 (11141-16-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
22P. PCB-1248 (12672-29-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
23P. PCB-1280 (11096-82-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
24P. PCB-1016 (12674-11-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											
25P. Toxaphene (8001-35-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>											



Pacific Coast Coal Company
NPDES Permit Number WA-003083-0
Surface and Ground Water Monitoring Locations

<u>WDOE/NPDES Discharge Number</u>	<u>Location</u>				<u>Receiving Water</u>
	<u>Latitude</u>		<u>Longitude</u>		
	<u>Deg</u>	<u>Min</u>	<u>Deg</u>	<u>Min</u>	
Pond B Outfall	47	19.622	121	59.482	Ginder Lake
Pond F&G Outfall	47	19.619	121	59.480	Ginder Lake
Pond H1 Outfall	47	19.011	122	0.185	Mud Lake Creek
Pond H2 Outfall	47	19.076	122	0.182	Mud Lake Creek
Pond I Outfall	47	19.040	121	59.834	Mud Lake Creek
<u>OSM Discharge Monitoring Point</u>					
001 (Pond B, F, G)	47	19.621	121	59.482	Ginder Lake
002 (Pond H1, H2, I)	47	19.061	122	0.267	Mud Lake Creek
003 (Pond A)	47	19.505	121	58.912	Lake No. 12
008 (Pond A')	47	19.671	121	58.877	Lake No. 12
010 (Pond A')	47	19.645	121	58.788	Lake No. 12
OSM Reference	47	19.081	122	0.274	Ginder Creek
<u>WDOE/OSM Groundwater Monitoring Location</u>					
Reichert Well	47	19.491	121	59.854	N/A
PCCC Well	47	19.655	121	58.916	N/A
12-4 Well	47	19.081	121	59.720	N/A
Pit 2	47	19.336	121	59.435	N/A
<u>Other Monitoring Locations</u>					
Pit 1	47	19.120	121	59.509	N/A
Proposed Pit 1/FCL Discharge	47	19.086	121	59.437	Mud Lake

Small Business Regulatory Enforcement Fairness Act (SBREFA) Your Comments Are Important

The Small Business and Agriculture Regulatory Enforcement Ombudsman and 10 Regional Fairness Boards were established to receive comments from small businesses about Federal agency enforcement actions. The Ombudsman will annually evaluate the enforcement activities and rate each agency's responsiveness to small business. If you are a small business (a business with 500 or fewer employees including those of affiliates) and wish to comment on the enforcement or compliance activities of OSM, call 1-888-REG-FAIR (1-888-734-3247)

Mine Site Inspection

Mine Name: John Henry No. 1 Mine
Operator: Pacific Coast Coal Company (PCCC)
Permit Number: WA-0007-D
Permit Status: Active, no mining
Total Acres Permitted: 480
Total Acres Disturbed: 315
Inspection Date: August 12, 2014
Inspection Type: Federal Complete Inspection
Weather Conditions: Partly cloudy, upper 70's
OSM Inspector: Christy Hulsman (#532)
Participants: Mike Conaboy, PCCC
Monica Kannadaguli, WA DOE
Jerry Shervey, WA DOE

Inspection Narrative

A. Administrative

OSM conducted a complete inspection of the John Henry No. 1 Mine operated by Pacific Coast Coal Co. (PCCC) on Tuesday, August 12, 2014; the inspection lasted from 12:00pm to 5:00pm. Mike Conaboy was PCCC's representative for the field inspection. Monica Kannadaguli and Jerry Shervey from the Washington Department of Ecology (WA DOE) also participated in the inspection. WA DOE issues and monitors the NPDES permit for the mine. PCCC is continuing to prepare the site for mining and reclamation activities in anticipation of OSMRE's decision on their significant permit revision.

PCCC has not had a dumpster delivered to the site, but continues to add material to the trash disposal pile adjacent to the truck scale.

B. Hydrologic Balance (Ponds and Impoundments)

Pit 1: PCCC shut off the Pit 1 pump at the beginning of the month and does not anticipate running it again till mining activities are more imminent.

Pit 2: The water level within the main pit remains low. PCCC has suspended pumping from this cell till mining activities are more imminent.

A Pond: No issues were noted at the outfall of this pond.

A' Pond: The gravel pack needs to be placed back around the riser pipe. The embankment has been cleared and the knotweed along the access has been cut back.

B Pond: The sump and both cells were inspected. Some of the vegetation had been cleared from around the emergency spillway; a few alders had been left that still may impede inspection and functionality – these need to be removed as well. PCCC also needs to remove the cat-tails adjacent to the discharge riser pipe.

G Pond: The embankment of this pond has been mowed for the season. WADOE is alright with the cat-tails in the bottom of the pond as they will aid in filtering water, as long as they don't affect the designed capacity of the sediment pond.

H2 Pond: The embankments have been mowed for the season. There was no noticeable discharge at the pond outfall.

I Pond: Since Pit 1 is not being drawn down and discharged into I-pond, the pool elevation remains below the discharge threshold of the slotted riser pipe. I discussed vegetation on the embankments and within the pond cells with WA DOE. WA DOE does not discourage vegetation within the ponds as it acts as an addition buffer for sediment. I expressed my concerns with larger vegetation on the constructed embankments of the pond cells.

C. Topsoil

No topsoil salvage or spreading activities have occurred since the last inspection.

D. Backfilling and Grading

No backfilling or grading activities have occurred since the last inspection.

E. Spoil Piles & Excess Spoil Disposal

No issues were noted for Spoil Piles 2, 3N or 3S.

F. Coal Mine Waste

Any coal mine waste generated during mining will be disposed of in Pit 1. No mining is occurring, therefore, no coal mine waste is being generated.

G. Blasting

Blasting signs as required by 30 CFR 816.66(a) should be posted at each entrance to the permit area from a public road. PCCC does have a sign posted at the back gate (just off the county road, adjacent to the H2- pond and Spoil Pile 3N) meeting the requirements of this section. However, there is not one posted at the main gate. A sign must be posted prior to PCCC resuming blasting activities at the mine.

H. Subsidence Control

Underground mining has not occurred, therefore, no subsidence control plan is required.

I. Roads

The main access road continues to have issues with potholes; PCCC has been blading them out as time and weather conditions permit.

J. Signs and Markers

Permit boundary signs have been placed along the last few sections of the boundary that needed signage. PCCC will need to place a blasting warning sign at the main gate prior to the use of explosives.

K. Distance Prohibitions

No disturbance in prohibited areas was noted in this inspection.

L. Revegetation

No new areas have been seeded since the previous inspection.

M. Postmining Land Use

The postmining land use is fish & wildlife habitat and forestry. Compliance with post mining land use was not evaluated as part of this inspection due to the fact that there were no pending bond release applications.

N. Other

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond B

Analyte	Units	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
Flow (Avg)	CFS			0.18								0.36	0.70
Flow (Max)	CFS			0.18								0.53	0.70
pH (Min)	S.U.			8.1								8.2	7.9
pH (Max)	S.U.			8.1								8.3	7.9
Specific Conduct. (Min)	µmho/cm			680								560	510
Specific Conduct. (Max)	µmho/cm			680								600	510
Turbidity (Max)	NTU			5								4	5
Dissolved Oxygen (Min)	mg/L			10.6								10.3	10.6
Phosphorous (Min)	µg/L			2.5								2.5	11
Phosphorous (Max)	µg/L			2.5								8	11
Phosphorous (6-Month Avg)	µg/L												
Arsenic	µg/L			5								5	5
Chromium	µg/L			7								0.5	0.5
Copper	µg/L			4								0.5	0.5
Lead	µg/L			5								10	5
Zinc	µg/L			1								0.5	4
Oil Sheen	Yes/No											No	No
Temperature (Max - Q3 only)	deg F							65					

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Note 2: Exceedance->

93

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond B

Analyte	Units	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
Flow (Avg)	CFS	1.16	0.24	0.62	0.57	0.38				0.01	0.48	0.45	0.21
Flow (Max)	CFS	1.62	0.24	0.70	0.61	0.53				0.02	0.90	0.53	0.23
pH (Min)	S.U.	7.8	8.2	8.2	8.2	8.3				8.5	8.2	8.1	7.8
pH (Max)	S.U.	7.9	8.2	8.2	8.2	8.3				8.5	8.4	8.2	8.0
Specific Conduct. (Min)	µmho/cm	490	560	650	550	640				620	420	420	570
Specific Conduct. (Max)	µmho/cm	500	560	870	570	670				620	510	430	610
Turbidity (Max)	NTU	19	7	8	7	8				1	8	5	8
Dissolved Oxygen (Min)	mg/L	11.0	10.7	11.0	11.4	11.3				9.8	9.9	10.7	10.9
Phosphorous (Min)	µg/L	7	2.5	2.5	7	7					10	10	6
Phosphorous (Max)	µg/L	10	2.5	9	9	24					11	14	8
Phosphorous (6-Month Avg)	µg/L				6.9	8.9					9.0	9.6	9.8
Arsenic	µg/L	5	5	5	5	5					5	5	5
Chromium	µg/L	0.5	0.5	0.5	0.5	3					6	0.5	0.5
Copper	µg/L	0.5	2	0.5	0.5	0.5					0.5	2	0.5
Lead	µg/L	5	5	5	5	5					5	5	5
Zinc	µg/L	0.5	0.5	0.5	0.5	0.5					0.5	0.5	0.5
Oil Sheen	Yes/No	No	No	No	No	No					No	No	No
Temperature (Max - Q3 only)	deg F							70	70	69			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Note 2: Exceedance-> **93**

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond B

Analyte	Units	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
Flow (Avg)	CFS	0.75		0.25	0.37	0.24	0.37				0.31	0.53	0.86
Flow (Max)	CFS	0.80		0.37	0.44	0.24	0.37				0.44	0.70	1.18
pH (Min)	S.U.	8.0		8.2	8.2	8.2	8.1				8.2	8.0	8.2
pH (Max)	S.U.	8.1		8.2	8.2	8.3	8.1				8.4	8.0	8.2
Specific Conduct. (Min)	µmho/cm	530		570	440	550	560				530	410	550
Specific Conduct. (Max)	µmho/cm	550		570	570	560	560				530	440	570
Turbidity (Max)	NTU	10		5	10	4	4				8	22	22
Dissolved Oxygen (Min)	mg/L	11.0		11.3	11.4	11.4	10.2				9.9	11.0	11.1
Phosphorous (Min)	µg/L	2.5		2.5	9	9	14				2.5	2.5	2.5
Phosphorous (Max)	µg/L	8		11	33	12	14				11	40	14
Phosphorous (6-Month Avg)	µg/L	9.7		9.5	10.4	10.4	10.5				10.4	13.3	13.6
Arsenic	µg/L	5		5	5	5	5				5	5	5
Chromium	µg/L	0.5		0.5	0.5	0.5	0.5				0.5	2	0.5
Copper	µg/L	0.5		1	2	0.5	0.5				3	6	2
Lead	µg/L	5		5	5	5	5				5	5	5
Zinc	µg/L	2		0.5	0.5	0.5	1				4	11	2
Oil Sheen	Yes/No	No		No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F							70	70	67			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Note 2: Exceedance->

93

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond B

Analyte	Units	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
Flow (Avg)	CFS	0.49	0.54	0.99	1.21	0.27	0.24				0.12	0.94	0.76
Flow (Max)	CFS	0.53	0.62	1.45	1.45	0.30	0.24				0.14	1.18	0.98
pH (Min)	S.U.	8.0	8.1	8.2	8.1	8.3	8.4				8.4	8.1	8.1
pH (Max)	S.U.	8.1	8.1	8.2	8.2	8.3	8.4				8.4	8.3	8.3
Specific Conduct. (Min)	µmho/cm	510	500	440	350	420	510				530	480	490
Specific Conduct. (Max)	µmho/cm	530	530	460	380	450	510				560	500	520
Turbidity (Max)	NTU	10	12	11	12	6	4				4	12	15
Dissolved Oxygen (Min)	mg/L	11.2	11.1	11.2	11.0	10.7	10.2				9.9	11.0	11.1
Phosphorous (Min)	µg/L	2.5	11	2.5	5	2.5	10				2.5	2.5	50
Phosphorous (Max)	µg/L	16	45	2.5	42	5	10				8	2.5	53
Phosphorous (6-Month Avg)	µg/L	11.5	14.6	12.7	15.5	12.5	13.1				12.4	7.7	16.6
Arsenic	µg/L	5	5	5	5	5	5				5	5	5
Chromium	µg/L	1	0.5	2	0.5	0.5	0.5				0.5	0.5	1
Copper	µg/L	2	2	2	4	0.5	1				1	4	5
Lead	µg/L	5	5	5	5	5	5				5	10	5
Zinc	µg/L	5	3	8	11	3	5				7	6	7
Oil Sheen	Yes/No	No	No	No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F							68	67	67			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Note 2: Exceedance->

93

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond B

Analyte	Units	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
Flow (Avg)	CFS	0.49	0.99	0.49	0.94	0.50	0.57				0.70	0.94	0.70
Flow (Max)	CFS	0.53	1.45	0.61	1.18	0.62	0.70				0.70	1.08	0.80
pH (Min)	S.U.	8.0	8.0	8.1	8.2	8.3	8.3				8.1	8.1	8.0
pH (Max)	S.U.	8.0	8.0	8.2	8.3	8.3	8.4				8.1	8.2	8.2
Specific Conduct. (Min)	µmho/cm	460	520	500	510	520	570				450	540	500
Specific Conduct. (Max)	µmho/cm	500	540	570	530	580	580				450	560	620
Turbidity (Max)	NTU	12	10	6	9	4	5				6	9	7
Dissolved Oxygen (Min)	mg/L	11.2	11.3	11.3	10.9	9.9	9.9				9.7	10.4	10.9
Phosphorous (Min)	µg/L	23	8	23	2.5	8	16				12	9	13
Phosphorous (Max)	µg/L	89	15	25	2.5	10	60				12	13	21
Phosphorous (6-Month Avg)	µg/L	22.5	24.0	25.1	24.7	25.8	23.5				16.5	16.5	15.2
Arsenic	µg/L	5	5	5	5	5	10				10	10	10
Chromium	µg/L	0.5	0.5	0.5	0.5	0.5	1.25				1.25	1.5	1.5
Copper	µg/L	2	1	2	2	2	4				2.5	2.5	2.5
Lead	µg/L	5	5	5	20	5	10				5	5	13
Zinc	µg/L	2	4	3	2	0.5	0.5				21	3.2	1
Oil Sheen	Yes/No	No	No	No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Note 2: Exceedance-> **93**

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond B

Analyte	Units	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Flow (Avg)	CFS	0.55		0.45	1.18					0.52	0.86	0.28	0.24
Flow (Max)	CFS	0.80		0.45	1.75					0.98	1.54	0.37	0.30
pH (Min)	S.U.	7.9		8.0	7.9					7.8	7.8	7.8	7.8
pH (Max)	S.U.	8.0		8.0	8.0					7.9	7.9	7.9	7.9
Specific Conduct. (Min)	µmho/cm	570		630	430					540	450	630	680
Specific Conduct. (Max)	µmho/cm	570		630	500					610	510	670	710
Turbidity (Max)	NTU	10		7	15					6	9	10	6
Dissolved Oxygen (Min)	mg/L	11.0		11.0	11.1					9.8	9.9	10.1	10.4
Phosphorous (Min)	µg/L	5		10	2.5					2.5	2.5	2.5	2.5
Phosphorous (Max)	µg/L	7		10	2.5					2.5	6	2.5	2.5
Phosphorous (6-Month Avg)	µg/L	15.8		16.6	9.5					8.0	6.8	4.1	3.5
Arsenic	µg/L	10		0.637	0.487					0.968	1.050	0.662	0.541
Chromium	µg/L	1.25		1.50	0.52					0.13	1.33	0.19	0.38
Copper	µg/L	2.5		0.61	0.69					2.5	2.50	2.50	2.50
Lead	µg/L	10		0.087	0.025					0.025	0.253	0.539	0.067
Zinc	µg/L	1		0.72	0.63					1.0	1.0	1.0	1.0
Oil Sheen	Yes/No	No		No	No					No	No	No	No
Temperature (Max - Q3 only)	deg F							70	68	68			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Note 2: Exceedance->

93

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond B

Analyte	Units	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
Flow (Avg)	CFS	0.58	0.38	0.94	0.75	0.62	0.19	0.10			0.53	0.41	0.41
Flow (Max)	CFS	0.61	0.53	1.08	0.80	0.70	0.23	0.10			0.61	0.44	0.44
pH (Min)	S.U.	7.8	7.9	8.0	8.3	8.2	8.2	8.1			7.9	7.9	8.1
pH (Max)	S.U.	8.0	8.0	8.1	8.3	8.3	8.3	8.1			7.9	7.9	8.2
Specific Conduct. (Min)	µmho/cm	550	590	600	590	600	650	630			530	510	600
Specific Conduct. (Max)	µmho/cm	680	680	640	600	640	680	630			550	530	650
Turbidity (Max)	NTU	9	16	15	10	8	8	7			4	6	5
Dissolved Oxygen (Min)	mg/L	10.8	11.2	11.2	10.9	10.0	10.0	9.8			9.7	10.0	10.3
Phosphorous (Min)	µg/L	2.5	12	11	7	12	6	18			2.5	2.5	2.5
Phosphorous (Max)	µg/L	2.5	12	12	21	17	10	18			2.5	6	2.5
Phosphorous (6-Month Avg)	µg/L	2.8	4.4	5.9	7.5	9.5	10.4	12.5			10.8	9.5	7.4
Arsenic	µg/L	0.702	0.674	0.671	0.600	0.439	0.746	1.280			0.980	0.712	0.483
Chromium	µg/L	0.45	0.31	1.23	0.31	0.28	0.09	0.08			0.26	0.55	0.31
Copper	µg/L	2.5	2.5	5.0	2.5	2.5	2.5	2.5			0.9	1.1	2.5
Lead	µg/L	0.288	0.207	0.233	0.224	0.164	0.025	0.025			0.025	0.063	0.096
Zinc	µg/L	1.0	4.0	1.0	3.4	2.1	3.0	1.0			3.5	2.49	11.0
Oil Sheen	Yes/No	No	No	No	No	No	No	No			No	No	No
Temperature (Max - Q3 only)	deg F							66	68				

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Note 2: Exceedance->

93

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond B

Analyte	Units	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Flow (Avg)	CFS	0.94	0.50	0.50	0.23						0.90	1.18	1.30
Flow (Max)	CFS	1.17	0.62	0.70	0.23						0.90	1.27	1.62
pH (Min)	S.U.	8.0	8.0	8.0	8.2						8.1	7.8	7.8
pH (Max)	S.U.	8.2	8.1	8.1	8.2						8.1	7.9	7.9
Specific Conduct. (Min)	µmho/cm	480	620	650	710						680	600	510
Specific Conduct. (Max)	µmho/cm	520	680	700	710						680	620	580
Turbidity (Max)	NTU	12	5	8	5						15	22	18
Dissolved Oxygen (Min)	mg/L	10.9	11.0	10.9	10.8						9.7	9.7	10.1
Phosphorous (Min)	µg/L	2.5	2.5	2.5	5						29	10	12
Phosphorous (Max)	µg/L	15	2.5	2.5	5						29	15	16
Phosphorous (6-Month Avg)	µg/L	6.4	5.4	3.8	4.2						6.7	8.7	9.7
Arsenic	µg/L	0.439	0.382	0.400	0.566						0.719	0.662	0.528
Chromium	µg/L	0.42	0.19	0.13	0.14						1.61	1.79	0.50
Copper	µg/L	2.5	2.5	2.5	2.5						2.5	2.5	5.0
Lead	µg/L	0.285	0.025	0.025	0.025						0.264	0.263	0.126
Zinc	µg/L	1.0	1.0	1.0	1.0						3.8	8.4	2.2
Oil Sheen	Yes/No	No	No	No	No						No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Note 2: Exceedance->

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Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond B

Analyte	Units	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Flow (Avg)	CFS	0.85	0.62	0.67							0.81	0.98	0.66
Flow (Max)	CFS	1.08	0.70	0.80							1.08	1.07	0.70
pH (Min)	S.U.	8.0	8.1	8.1							7.7	7.9	8.1
pH (Max)	S.U.	8.1	8.3	8.2							7.9	8.0	8.2
Specific Conduct. (Min)	µmho/cm	290	510	560							470	550	590
Specific Conduct. (Max)	µmho/cm	320	540	620							480	560	640
Turbidity (Max)	NTU	18	7	7							4	7	8
Dissolved Oxygen (Min)	mg/L	11.0	11.2	11.0							9.9	10.1	10.0
Phosphorous (Min)	µg/L	32	6	2.5							2.5	2.5	6
Phosphorous (Max)	µg/L	47	9	2.5							17	9	10
Phosphorous (6-Month Avg)	µg/L	17.1	18.1	16.5							14.3	13.2	12.2
Arsenic	µg/L	0.292	0.341	0.362							0.010	1.880	0.336
Chromium	µg/L	0.46	0.17	0.34							0.56	0.93	0.78
Copper	µg/L	2.5	5.0	2.5							2.5	2.5	26.0
Lead	µg/L	0.377	0.025	0.025							0.087	0.132	0.149
Zinc	µg/L	3.3	9.9	2.0							4.3	3.9	7.0
Oil Sheen	Yes/No	No	No	No							No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Note 2: Exceedance-> **93**

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond B

Analyte	Units	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Flow (Avg)	CFS	0.99	1.37	0.71	0.45	1.22						0.41	0.95
Flow (Max)	CFS	1.28	1.46	0.88	0.53	1.46						0.44	1.28
pH (Min)	S.U.	8.0	8.1	8.2	8.0	8.0						7.9	7.9
pH (Max)	S.U.	8.0	8.2	8.3	8.1	8.1						8.1	8.0
Specific Conduct. (Min)	µmho/cm	450	460	610	660	500						540	400
Specific Conduct. (Max)	µmho/cm	470	480	620	670	530						600	550
Turbidity (Max)	NTU	18	7	4	3	13						3	3
Dissolved Oxygen (Min)	mg/L	10.2	10.4	10.7	10.3	9.8						9.7	10.3
Phosphorous (Min)	µg/L	2.5	2.5	2.5	2.5	18						2.5	2.5
Phosphorous (Max)	µg/L	12	5	2.5	43	20						5	5
Phosphorous (6-Month Avg)	µg/L	6.8	6.2	6.2	8.3	10.5						9.8	9.3
Arsenic	µg/L	0.261	0.380	0.287	0.846	0.443						0.199	0.484
Chromium	µg/L	0.48	1.91	0.30	0.49	0.75						0.025	2.1
Copper	µg/L	2.5	5.0	2.5	2.5	2.5						6.0	2.5
Lead	µg/L	0.145	0.152	0.124	0.025	1.610						0.152	0.080
Zinc	µg/L	11.0	8.7	7.4	1.0	1.0						2.5	2.5
Oil Sheen	Yes/No	No	No	No	No	No						No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Note 2: Exceedance->

93

**Pacific Coast Coal Company
Pond B Statistical Analysis**

Analyte	Units		Min	Avg	Max	Std.Dev.	Count	NPDES Limit	No. Exceed.	No. > D.L.	No. < D.L.	% < D.L.
Flow (Avg)	CFS		0.01	0.615	1.37	0.3184	75					
Flow (Max)	CFS		0.02	0.759	1.75	0.4197	75					
pH (Min)	S.U.		7.7	8.06	8.5	0.1675	75	6.5 - 8.5	0			
pH (Max)	S.U.		7.9	8.14	8.5	0.1541	75	6.5 - 8.5	0			
Specific Conduct. (Min)	µmho/cm		290	536.4	710	81.8311	75					
Specific Conduct. (Max)	µmho/cm		320	572.0	870	86.1959	75					
Turbidity (Max)	NTU		1	8.8	22	4.8445	75	<= 25	0			
Dissolved Oxygen (Min)	mg/L		9.7	10.58	11.4	0.5528	75	>= 9.5	0			
Phosphorous (Min)	µg/L		2.5	7.7	50	8.1068	74	<= 82	0	38	36	48.6%
Phosphorous (Max)	µg/L		2.5	14.8	89	15.5500	74	<= 82	1	58	16	21.6%
Phosphorous (6-Month Avg)	µg/L		2.8	11.48	25.8	5.4657		<= 41	0			
Arsenic	µg/L		0.010	3.195	10	2.8339	74			35	39	52.7%
Chromium	µg/L		0.025	0.861	7	1.1057	74	<= 15.3	0	42	32	43.2%
Copper	µg/L		0.5	2.60	26	3.0695	74	<= 14.5	1	35	39	52.7%
Lead	µg/L		0.025	3.236	20	3.6974	74			31	43	58.1%
Zinc	µg/L		0.5	3.31	21	3.6503	74			43	31	41.9%
Oil Sheen	Yes/No							No	0			
Temperature (Max - Q3 only)	deg F		65	68.2	70		15					

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond F&G

Analyte	Units	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
Flow (Avg)	CFS			0.05								0.04	0.10
Flow (Max)	CFS			0.05								0.04	0.10
pH (Min)	S.U.			8.0								8.3	7.7
pH (Max)	S.U.			8.0								8.4	7.7
Specific Conduct. (Min)	µmho/cm			900								960	940
Specific Conduct. (Max)	µmho/cm			900								980	940
Turbidity (Max)	NTU			1								2	2
Dissolved Oxygen (Min)	mg/L			10.5								10.2	10.4
Phosphorous (Min)	µg/L			2.5								2.5	60
Phosphorous (Max)	µg/L			2.5								9	60
Phosphorous (6-Month Avg)	µg/L												
Arsenic	µg/L			5								5	5
Chromium	µg/L			1.5								0.5	0.5
Copper	µg/L			2								0.5	0.5
Lead	µg/L			5								5	5
Zinc	µg/L			0.5								0.5	1
Oil Sheen	Yes/No											No	No
Temperature (Max - Q3 only)	deg F							64					

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond F&G

Analyte	Units	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
Flow (Avg)	CFS	0.24	0.02	0.05	0.08	0.10					0.34	0.18	0.10
Flow (Max)	CFS	0.38	0.02	0.10	0.10	0.17					0.65	0.23	0.10
pH (Min)	S.U.	7.6	8.2	8.0	8.0	8.2					8.1	8.2	7.9
pH (Max)	S.U.	7.7	8.2	8.1	8.1	8.2					8.2	8.2	8.0
Specific Conduct. (Min)	µmho/cm	830	950	940	890	980					260	820	650
Specific Conduct. (Max)	µmho/cm	920	950	970	920	980					470	840	660
Turbidity (Max)	NTU	5	2	2	3	2					14	12	6
Dissolved Oxygen (Min)	mg/L	10.8	10.2	10.2	11.2	11.1					9.8	10.6	10.8
Phosphorous (Min)	µg/L	8	2.5	8	5	5					6	12	6
Phosphorous (Max)	µg/L	10	2.5	10	7	30					16	18	8
Phosphorous (6-Month Avg)	µg/L				12.2	14.6					9.8	10.9	10.9
Arsenic	µg/L	5	5	5	5	5					5	5	5
Chromium	µg/L	0.5	1	0.5	0.5	2					0.5	0.5	0.5
Copper	µg/L	0.5	2	0.5	0.5	2					0.5	4	1
Lead	µg/L	5	5	5	5	5					5	20	5
Zinc	µg/L	0.5	2	0.5	0.5	1					0.5	0.5	0.5
Oil Sheen	Yes/No	No	No	No	No	No					No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond F&G

Analyte	Units	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
Flow (Avg)	CFS	0.33		0.13	0.14	0.10	0.13				0.08	0.23	0.36
Flow (Max)	CFS	0.38		0.22	0.18	0.13	0.13				0.13	0.33	0.50
pH (Min)	S.U.	7.9		8.3	8.2	8.3	8.2				8.2	8.0	8.0
pH (Max)	S.U.	8.0		8.3	8.3	8.3	8.2				8.3	8.2	8.1
Specific Conduct. (Min)	µmho/cm	780		880	780	670	920				720	630	680
Specific Conduct. (Max)	µmho/cm	810		940	810	970	920				800	650	870
Turbidity (Max)	NTU	7		21	3	11	2				14	17	21
Dissolved Oxygen (Min)	mg/L	11.2		11.2	11.3	11.5	10.3				9.8	11.0	11.1
Phosphorous (Min)	µg/L	2.5		2.5	6	7	16				7	2.5	2.5
Phosphorous (Max)	µg/L	8		10	9	14	16				29	25	6
Phosphorous (6-Month Avg)	µg/L	10.3		10.3	8.7	8.6	8.1				10.1	11.6	11.3
Arsenic	µg/L	5		5	5	5	5				5	5	5
Chromium	µg/L	0.5		0.5	0.5	0.5	0.5				0.5	2	1
Copper	µg/L	0.5		2	2	0.5	0.5				1	3	0.5
Lead	µg/L	5		5	5	5	5				5	5	5
Zinc	µg/L	0.5		19	0.5	2	2				3	7	2
Oil Sheen	Yes/No	No		No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F							67		66			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond F&G

Analyte	Units	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
Flow (Avg)	CFS	0.45	0.18	0.35	0.58	0.05	0.07				0.05	0.92	0.46
Flow (Max)	CFS	0.52	0.18	0.52	0.78	0.07	0.07				0.05	1.12	0.64
pH (Min)	S.U.	8.2	8.1	8.1	8.2	8.3	8.3				8.3	8.2	8.2
pH (Max)	S.U.	8.2	8.2	8.2	8.2	8.3	8.3				8.4	8.3	8.3
Specific Conduct. (Min)	µmho/cm	360	670	480	500	910	890				640	440	530
Specific Conduct. (Max)	µmho/cm	420	780	720	620	940	890				680	470	610
Turbidity (Max)	NTU	19	13	16	9	3	3				3	21	19
Dissolved Oxygen (Min)	mg/L	11.1	11.2	11.3	11.1	10.7	10.3				9.9	11.1	11.0
Phosphorous (Min)	µg/L	2.5	2.5	11	5	2.5	7				2.5	2.5	26
Phosphorous (Max)	µg/L	2.5	10	10	41	2.5	7				5	12	35
Phosphorous (6-Month Avg)	µg/L	10.4	9.6	9.2	10.0	8.2	8.8				9.0	9.2	12.8
Arsenic	µg/L	5	5	5	5	5	5				5	5	5
Chromium	µg/L	3	0.5	0.5	0.5	0.5	0.5				0.5	2	0.5
Copper	µg/L	7	1	2	2	0.5	1				3	3	2
Lead	µg/L	5	5	5	5	5	5				10	5	10
Zinc	µg/L	12	3	7	8	3	4				6	10	4
Oil Sheen	Yes/No	No	No	No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond F&G

Analyte	Units	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
Flow (Avg)	CFS	0.14	0.06	0.04	0.07	0.07	0.03				0.02	0.14	0.07
Flow (Max)	CFS	0.18	0.07	0.04	0.10	0.10	0.05				0.02	0.18	0.10
pH (Min)	S.U.	8.1	8.1	8.0	8.0	8.2	8.2				8.0	8.1	8.0
pH (Max)	S.U.	8.2	8.1	8.1	8.1	8.2	8.3				8.0	8.2	8.3
Specific Conduct. (Min)	µmho/cm	730	810	790	800	730	620				620	300	580
Specific Conduct. (Max)	µmho/cm	770	840	880	840	810	630				620	340	710
Turbidity (Max)	NTU	15	4	3	4	2	2				2	16	2
Dissolved Oxygen (Min)	mg/L	11.1	11.3	11.4	11.0	9.8	9.9				9.6	10.3	11.0
Phosphorous (Min)	µg/L	2.5	5	21	2.5	6	10				2.5	70	11
Phosphorous (Max)	µg/L	58	11	22	6	13	17				2.5	108	12
Phosphorous (6-Month Avg)	µg/L	14.1	15.1	16.9	17.0	17.3	14.5				10.5	25.3	23.5
Arsenic	µg/L	5	5	5	5	5	10				10	10	10
Chromium	µg/L	0.5	0.5	0.5	0.5	0.5	1.25				1.25	1.5	1.5
Copper	µg/L	3	1	2	1	2	3				2.5	2.5	2.5
Lead	µg/L	20	10	20	20	10	10				16	5	15
Zinc	µg/L	3	4	6	2	0.5	0.5				3	5.6	1
Oil Sheen	Yes/No	No	No	No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond F&G

Analyte	Units	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Flow (Avg)	CFS	0.17		0.13	0.55					0.26	0.35	0.06	0.06
Flow (Max)	CFS	0.17		0.13	0.92					0.38	0.52	0.07	0.70
pH (Min)	S.U.	8.0		8.3	7.8					8.2	8.0	8.2	8.2
pH (Max)	S.U.	8.2		8.3	8.1					8.2	8.2	8.2	8.1
Specific Conduct. (Min)	µmho/cm	460		860	620					720	580	1030	900
Specific Conduct. (Max)	µmho/cm	600		860	710					810	900	1060	1080
Turbidity (Max)	NTU	12		2	17					10	5	4	2
Dissolved Oxygen (Min)	mg/L	11.2		11.2	11.3					9.8	9.9	10.3	10.6
Phosphorous (Min)	µg/L	2.5		2.5	2.5					2.5	2.5	2.5	2.5
Phosphorous (Max)	µg/L	13		2.5	17					2.5	5	2.5	2.5
Phosphorous (6-Month Avg)	µg/L	24.1		24.9	24.1					22.1	6.6	5.0	4.0
Arsenic	µg/L	10		0.464	1.18					0.791	0.669	1.520	0.891
Chromium	µg/L	1.25		1.5	1.50					0.30	0.560	0.680	0.190
Copper	µg/L	2.5		0.72	2.78					2.5	2.5	2.5	2.5
Lead	µg/L	5		0.025	0.516					0.136	0.172	0.771	0.025
Zinc	µg/L	1		0.78	4.40					1.0	1.0	1.0	3.5
Oil Sheen	Yes/No	No		No	No					No	No	No	No
Temperature (Max - Q3 only)	deg F									55			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond F&G

Analyte	Units	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
Flow (Avg)	CFS	0.22	0.15	0.18	0.28	0.16	0.05	0.01			0.06	0.10	0.09
Flow (Max)	CFS	0.27	0.17	0.22	0.33	0.22	0.07	0.01			0.07	0.10	0.10
pH (Min)	S.U.	8.0	8.1	8.2	8.1	8.2	8.2	8.3			8.2	8.1	8.3
pH (Max)	S.U.	8.1	8.2	8.2	8.2	8.2	8.2	8.3			8.2	8.2	8.4
Specific Conduct. (Min)	µmho/cm	680	750	760	560	780	780	1050			910	960	970
Specific Conduct. (Max)	µmho/cm	890	960	790	580	830	810	1050			920	990	1020
Turbidity (Max)	NTU	6	4	8	11	6	3	3			3	2	3
Dissolved Oxygen (Min)	mg/L	11.0	11.4	11.4	11.0	10.3	10.0	9.9			9.9	10.2	10.5
Phosphorous (Min)	µg/L	2.5	2.5	5	11	14	2.5	18			2.5	2.5	2.5
Phosphorous (Max)	µg/L	2.5	14	6	44	16	18	18			2.5	6	2.5
Phosphorous (6-Month Avg)	µg/L	3.9	3.7	4.2	8.1	10.2	11.5	13.7			12.7	12.5	7.9
Arsenic	µg/L	0.751	0.733	0.386	0.846	0.638	0.778	1.220			4.070	0.987	0.718
Chromium	µg/L	0.49	1.34	0.52	0.73	0.53	0.37	0.05			0.44	0.40	0.23
Copper	µg/L	2.5	2.5	2.5	2.5	5.0	2.5	2.5			1.6	1.2	2.5
Lead	µg/L	0.025	0.251	0.025	0.718	0.234	0.139	0.025			0.050	0.061	0.060
Zinc	µg/L	1.0	1.0	1.0	385.0	2.5	7.1	1.0			1.5	4.6	3.0
Oil Sheen	Yes/No	No	No	No	No	No	No	No			No	No	No
Temperature (Max - Q3 only)	deg F							63					

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond F&G

Analyte	Units	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Flow (Avg)	CFS	0.36	0.23	0.19	0.07						0.22	0.36	0.33
Flow (Max)	CFS	0.50	0.27	0.28	0.07						0.22	0.39	0.44
pH (Min)	S.U.	8.0	8.3	8.3	8.3						8.2	8.1	8.1
pH (Max)	S.U.	8.0	8.3	8.4	8.3						8.2	8.2	8.1
Specific Conduct. (Min)	µmho/cm	560	530	600	760						940	810	670
Specific Conduct. (Max)	µmho/cm	740	750	740	760						940	860	740
Turbidity (Max)	NTU	7	9	7	3						6	8	10
Dissolved Oxygen (Min)	mg/L	11.1	11.2	11.1	11.0						9.8	9.8	10.0
Phosphorous (Min)	µg/L	2.5	2.5	2.5	2.5						39	6	8
Phosphorous (Max)	µg/L	31	2.5	2.5	2.5						39	15	8
Phosphorous (6-Month Avg)	µg/L	8.2	6.8	5.2	5.4						9.0	10.6	8.9
Arsenic	µg/L	0.430	0.422	0.734	0.622						0.903	0.654	0.900
Chromium	µg/L	0.34	0.24	0.17	0.12						0.33	0.44	0.43
Copper	µg/L	2.5	2.5	2.5	2.5						2.5	2.5	2.5
Lead	µg/L	0.175	0.025	0.025	0.025						0.078	0.054	0.058
Zinc	µg/L	1.0	1.0	1.0	1.0						1.0	1.0	3.1
Oil Sheen	Yes/No	No	No	No	No						No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond F&G

Analyte	Units	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Flow (Avg)	CFS	0.22	0.22	0.21							0.25	0.25	0.20
Flow (Max)	CFS	0.27	0.22	0.27							0.33	0.27	0.22
pH (Min)	S.U.	8.1	8.2	8.2							8.2	8.3	8.3
pH (Max)	S.U.	8.2	8.2	8.3							8.3	8.3	8.3
Specific Conduct. (Min)	µmho/cm	790	760	850							750	790	780
Specific Conduct. (Max)	µmho/cm	830	880	960							790	840	950
Turbidity (Max)	NTU	9	8	12							3	5	4
Dissolved Oxygen (Min)	mg/L	11.2	11.2	11.2							9.9	10.2	10.0
Phosphorous (Min)	µg/L	16	2.5	2.5							2.5	2.5	2.5
Phosphorous (Max)	µg/L	35	2.5	2.5							2.5	7	15
Phosphorous (6-Month Avg)	µg/L	13.5	13.5	12.5							8.6	7.6	7.8
Arsenic	µg/L	0.404	0.395	0.343							0.010	2.460	0.704
Chromium	µg/L	0.16	0.13	0.44							0.025	0.40	0.41
Copper	µg/L	2.5	2.5	2.5							2.5	2.5	7.0
Lead	µg/L	0.025	0.025	0.091							0.025	0.025	0.025
Zinc	µg/L	2.0	3.1	2.2							4.1	4.3	7.0
Oil Sheen	Yes/No	No	No	No							No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond F&G

Analyte	Units	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Flow (Avg)	CFS	0.42	0.59	0.23	0.12	0.28						0.07	0.23
Flow (Max)	CFS	0.52	0.65	0.32	0.13	0.38						0.07	0.32
pH (Min)	S.U.	7.9	8.2	8.2	8.1	8.1						8.3	7.8
pH (Max)	S.U.	7.9	8.3	8.3	8.2	8.1						8.4	8.1
Specific Conduct. (Min)	µmho/cm	660	380	660	990	890						1020	910
Specific Conduct. (Max)	µmho/cm	790	440	790	1040	940						1060	930
Turbidity (Max)	NTU	7	19	3	2	10						4	3
Dissolved Oxygen (Min)	mg/L	10.4	10.6	10.8	10.4	9.9						9.8	10.4
Phosphorous (Min)	µg/L	2.5	28	2.5	2.5	9						2.5	2.5
Phosphorous (Max)	µg/L	10	36	2.5	2.5	13						7	2.5
Phosphorous (6-Month Avg)	µg/L	4.5	9.5	9.5	9.5	10.5						9.8	9.2
Arsenic	µg/L	0.319	1.380	0.571	1.060	0.752						0.025	0.919
Chromium	µg/L	0.43	1.84	0.17	0.08	0.56						1.18	1.57
Copper	µg/L	2.5	6.0	2.5	2.5	2.5						2.5	2.5
Lead	µg/L	0.076	0.375	0.025	0.025	0.075						10.000	0.025
Zinc	µg/L	14.0	7.9	2.4	1.0	1.0						2.5	2.5
Oil Sheen	Yes/No	No	No	No	No	No						No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

**Pacific Coast Coal Company
Pond F&G Statistical Analysis**

Analyte	Units		Min	Avg	Max	Std.Dev.	Count	NPDES Limit	No. Exceed.	No. > D.L.	No. < D.L.	% < D.L.
Flow (Avg)	CFS		0.01	0.196	0.92	0.1622	74					
Flow (Max)	CFS		0.01	0.261	1.12	0.2243	74					
pH (Min)	S.U.		7.6	8.13	8.3	0.1494	74	6.5 - 8.5	0			
pH (Max)	S.U.		7.7	8.19	8.4	0.1338	74	6.5 - 8.5	0			
Specific Conduct. (Min)	µmho/cm		260	743.9	1050	179.2130	74					
Specific Conduct. (Max)	µmho/cm		340	817.6	1080	160.2123	74					
Turbidity (Max)	NTU		1	7.3	21	5.7345	74	<= 25	0			
Dissolved Oxygen (Min)	mg/L		9.6	10.62	11.5	0.5603	74	>= 9.5	0			
Phosphorous (Min)	µg/L		2.5	7.8	70	11.7330	74	<= 82	0	32	42	56.8%
Phosphorous (Max)	µg/L		2.5	14.6	108	17.0354	74	<= 82	1	53	21	28.4%
Phosphorous (6-Month Avg)	µg/L		3.7	11.15	25.3	5.0616		<= 41	0			
Arsenic	µg/L		0.010	3.320	10	2.7525	74			34	40	54.1%
Chromium	µg/L		0.025	0.697	3	0.5631	74	<= 15.3	0	40	34	45.9%
Copper	µg/L		0.5	2.22	7	1.2952	74	<= 14.5	0	29	45	60.8%
Lead	µg/L		0.025	4.196	20	5.3058	74			32	42	56.8%
Zinc	µg/L		0.5	8.24	385	44.5235	74			43	31	41.9%
Oil Sheen	Yes/No							No	0			
Temperature (Max - Q3 only)	deg F		55	63.0	67		5					

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H1

Analyte	Units	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
Flow (Avg)	CFS			0.07								0.07	0.10
Flow (Max)	CFS			0.07								0.10	0.10
pH (Min)	S.U.			8.1								8.3	8.1
pH (Max)	S.U.			8.1								8.3	8.1
Specific Conduct. (Min)	µmho/cm			1000								940	980
Specific Conduct. (Max)	µmho/cm			1000								950	980
Turbidity (Max)	NTU			1								4	2
Dissolved Oxygen (Min)	mg/L			10.4								10.2	10.6
Phosphorous (Min)	µg/L			2.5								8	8
Phosphorous (Max)	µg/L			2.5								10	8
Phosphorous (6-Month Avg)	µg/L												
Arsenic	µg/L			5								5	5
Chromium	µg/L			1.5								0.5	0.5
Copper	µg/L			0.5								0.5	0.5
Lead	µg/L			5								5	5
Zinc	µg/L			0.5								0.5	0.5
Oil Sheen	Yes/No											No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H1

Analyte	Units	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
Flow (Avg)	CFS	0.60	0.04	0.20	0.25	0.10					0.20	0.08	0.12
Flow (Max)	CFS	0.92	0.04	0.22	0.27	0.17					0.27	0.10	0.14
pH (Min)	S.U.	7.9	8.2	8.1	8.1	8.1					8.2	8.2	8.1
pH (Max)	S.U.	8.0	8.2	8.2	8.2	8.2					8.3	8.3	8.2
Specific Conduct. (Min)	µmho/cm	870	920	950	920	910					810	920	910
Specific Conduct. (Max)	µmho/cm	970	920	980	940	950					830	940	950
Turbidity (Max)	NTU	14	3	6	10	6					8	3	2
Dissolved Oxygen (Min)	mg/L	10.9	10.5	11.0	11.3	11.2					10.5	10.5	10.8
Phosphorous (Min)	µg/L	10	2.5	2.5	2.5	2.5					20	11	8
Phosphorous (Max)	µg/L	14	2.5	10	9	26					21	12	9
Phosphorous (6-Month Avg)	µg/L				7.7	8.7					10.9	10.8	11.1
Arsenic	µg/L	5	5	5	5	5					5	5	5
Chromium	µg/L	0.5	0.5	3	0.5	0.5					0.5	0.5	0.5
Copper	µg/L	6	0.5	0.5	0.5	0.5					0.5	0.5	0.5
Lead	µg/L	2	5	5	5	5					5	5	5
Zinc	µg/L	0.5	0.5	1	0.5	0.5					0.5	0.5	0.5
Oil Sheen	Yes/No	No	No	No	No	No					No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H1

Analyte	Units	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
Flow (Avg)	CFS	0.19		0.08	0.10	0.08	0.13				0.17	0.14	0.21
Flow (Max)	CFS	0.22		0.10	0.10	0.10	0.13				0.17	0.18	0.32
pH (Min)	S.U.	8.1		8.2	8.2	8.1	8.3				8.3	7.9	8.1
pH (Max)	S.U.	8.2		8.3	8.2	8.2	8.3				8.3	8.0	8.2
Specific Conduct. (Min)	µmho/cm	940		980	960	960	980				920	920	920
Specific Conduct. (Max)	µmho/cm	960		1000	980	980	980				950	930	950
Turbidity (Max)	NTU	3		2	2	2	1				5	9	3
Dissolved Oxygen (Min)	mg/L	11.1		11.2	11.3	11.4	10.4				9.8	11.1	11.1
Phosphorous (Min)	µg/L	6		2.5	7	9	14				10	2.5	2.5
Phosphorous (Max)	µg/L	6		9	8	9	14				46	7	2.5
Phosphorous (6-Month Avg)	µg/L	11.1		11.1	10.0	8.0	8.0				11.5	11.3	10.7
Arsenic	µg/L	5		5	5	5	5				5	5	5
Chromium	µg/L	0.5		0.5	0.5	0.5	0.5				0.5	1	0.5
Copper	µg/L	0.5		1	2	2.5	2				5	2	2
Lead	µg/L	5		5	5	5	5				5	5	5
Zinc	µg/L	0.5		0.5	0.5	2.5	0.5				3	6	0.5
Oil Sheen	Yes/No	No		No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F									65			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H1

Analyte	Units	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
Flow (Avg)	CFS	0.14	0.20	0.42	0.44	0.08	0.07				0.06	0.33	0.27
Flow (Max)	CFS	0.18	0.27	0.52	0.51	0.10	0.07				0.07	0.44	0.37
pH (Min)	S.U.	8.1	8.1	8.2	8.1	8.2	8.1				8.1	8.0	7.9
pH (Max)	S.U.	8.2	8.1	8.2	8.2	8.3	8.1				8.2	8.0	8.0
Specific Conduct. (Min)	µmho/cm	910	920	760	900	960	960				960	870	920
Specific Conduct. (Max)	µmho/cm	920	970	870	940	980	960				980	900	960
Turbidity (Max)	NTU	3	5	12	4	2	2				2	7	6
Dissolved Oxygen (Min)	mg/L	11.3	11.2	11.3	11.1	10.8	10.4				10.0	11.2	11.2
Phosphorous (Min)	µg/L	2.5	2.5	15	2.5	2.5	9				5	2.5	22
Phosphorous (Max)	µg/L	27	5	16	9	2.5	9				20	21	34
Phosphorous (6-Month Avg)	µg/L	12.0	11.0	11.5	7.8	7.5	8.5				8.1	9.5	11.8
Arsenic	µg/L	5	5	5	5	5	5				5	5	5
Chromium	µg/L	0.5	0.5	0.5	0.5	0.5	0.5				0.5	0.5	0.5
Copper	µg/L	0.5	2	2	0.5	0.5	0.5				1	4	2
Lead	µg/L	5	5	5	5	5	5				10	20	20
Zinc	µg/L	4	4	6	4	5	6				4	8	4
Oil Sheen	Yes/No	No	No	No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H1

Analyte	Units	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
Flow (Avg)	CFS	0.18	0.25	0.17	0.22	0.14	0.24				0.13	0.30	0.22
Flow (Max)	CFS	0.27	0.37	0.17	0.27	0.18	0.27				0.13	0.38	0.27
pH (Min)	S.U.	8.0	8.1	8.0	8.2	8.3	8.2				8.1	8.2	8.1
pH (Max)	S.U.	8.1	8.2	8.1	8.2	8.3	8.3				8.1	8.3	8.3
Specific Conduct. (Min)	µmho/cm	970	930	970	970	1020	970				880	930	990
Specific Conduct. (Max)	µmho/cm	980	960	980	1000	1040	980				880	970	1060
Turbidity (Max)	NTU	2	4	2	2	3	3				4	5	3
Dissolved Oxygen (Min)	mg/L	11.3	11.4	11.4	11.0	10.1	10.0				9.8	10.7	11.0
Phosphorous (Min)	µg/L	2.5	6	18	2.5	7	11				2.5	13	12
Phosphorous (Max)	µg/L	14	15	18	6	32	18				2.5	14	22
Phosphorous (6-Month Avg)	µg/L	12.3	13.7	14.8	13.5	14.8	12.5				12.4	12.9	12.7
Arsenic	µg/L	5	5	5	5	5	10				10	10	10
Chromium	µg/L	0.5	0.5	0.5	0.5	0.5	1.25				1.25	1.5	1.5
Copper	µg/L	2	1	0.5	1	2	3				2.5	2.5	2.5
Lead	µg/L	20	20	20	10	20	20				11	16	21
Zinc	µg/L	0.5	3	4	2	1	0.5				1	2	1
Oil Sheen	Yes/No	No	No	No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H1

Analyte	Units	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Flow (Avg)	CFS	0.16		0.22	0.39					0.16	0.30	0.06	0.08
Flow (Max)	CFS	0.22		0.22	0.44					0.22	0.52	0.07	0.10
pH (Min)	S.U.	8.2		8.1	8.1					8.2	8.0	8.0	7.9
pH (Max)	S.U.	8.2		8.1	8.2					8.3	8.0	8.1	8.0
Specific Conduct. (Min)	µmho/cm	1020		1040	930					930	910	1180	1260
Specific Conduct. (Max)	µmho/cm	1030		1040	990					1010	1020	1260	1260
Turbidity (Max)	NTU	3		2	3					2	3	3	3
Dissolved Oxygen (Min)	mg/L	11.3		11.2	11.2					9.9	10.0	10.2	10.5
Phosphorous (Min)	µg/L	2.5		5	2.5					2.5	2.5	2.5	2.5
Phosphorous (Max)	µg/L	17		5	2.5					2.5	2.5	2.5	2.5
Phosphorous (6-Month Avg)	µg/L	13.7		11.7	9.3					8.7	6.7	4.0	2.7
Arsenic	µg/L	10		0.445	0.512					0.720	0.636	0.808	0.609
Chromium	µg/L	1.25		1.5	0.68					1.13	0.43	0.45	0.25
Copper	µg/L	2.5		0.84	0.68					2.50	2.50	2.50	2.50
Lead	µg/L	14		0.025	0.025					0.471	0.104	0.794	0.025
Zinc	µg/L	1		0.25	0.56					94.30	1.00	1.00	1.00
Oil Sheen	Yes/No	No		No	No					No	No	No	No
Temperature (Max - Q3 only)	deg F									54			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H1

Analyte	Units	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
Flow (Avg)	CFS	0.37	0.09	0.36	0.33	0.25	0.18	0.05			0.10	0.10	0.07
Flow (Max)	CFS	0.52	0.10	0.38	0.38	0.27	0.22	0.05			0.13	0.10	0.07
pH (Min)	S.U.	7.9	8.2	8.2	8.2	8.1	8.2	8.0			7.9	7.9	8.2
pH (Max)	S.U.	8.0	8.2	8.3	8.2	8.2	8.2	8.0			8.0	8.0	8.3
Specific Conduct. (Min)	µmho/cm	1020	1250	1270	1220	1220	1260	1410			1090	1080	1180
Specific Conduct. (Max)	µmho/cm	1190	1280	1310	1290	1260	1270	1410			1100	1120	1260
Turbidity (Max)	NTU	5	2	3	2	3	2	3			2	2	2
Dissolved Oxygen (Min)	mg/L	10.9	11.3	11.3	11.1	10.5	10.1	9.9			9.8	10.1	10.4
Phosphorous (Min)	µg/L	2.5	8	10	7	2.5	2.5	18			2.5	5	10
Phosphorous (Max)	µg/L	2.5	9	11	10	9	6	18			8	6	14
Phosphorous (6-Month Avg)	µg/L	2.5	3.5	4.8	5.8	6.4	6.7	8.5			7.9	7.0	7.6
Arsenic	µg/L	0.567	0.631	0.665	0.548	0.508	0.920	1.260			1.210	1.000	0.531
Chromium	µg/L	0.69	2.11	0.73	0.37	0.50	0.21	0.06			0.22	0.58	0.26
Copper	µg/L	2.50	2.50	2.50	2.50	2.50	2.50	2.50			1.02	0.98	2.50
Lead	µg/L	0.152	0.120	0.156	0.121	0.132	0.025	0.025			0.521	0.140	0.025
Zinc	µg/L	1.00	1.00	1.00	1.00	1.00	9.20	2.20			5.02	7.73	2.90
Oil Sheen	Yes/No	No	No	No	No	No	No	No			No	No	No
Temperature (Max - Q3 only)	deg F							64					

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H1

Analyte	Units	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Flow (Avg)	CFS	0.44	0.14	0.16	0.05						0.17	0.20	0.25
Flow (Max)	CFS	0.50	0.18	0.22	0.05						0.17	0.22	0.32
pH (Min)	S.U.	8.1	8.2	8.2	8.3						8.1	8.0	8.0
pH (Max)	S.U.	8.3	8.3	8.3	8.3						8.1	8.0	8.1
Specific Conduct. (Min)	µmho/cm	620	1010	1040	1090						1020	920	900
Specific Conduct. (Max)	µmho/cm	960	1140	1170	1090						1020	940	970
Turbidity (Max)	NTU	12	5	4	3						4	7	8
Dissolved Oxygen (Min)	mg/L	10.9	11.0	11.0	11.0						9.7	9.8	10.2
Phosphorous (Min)	µg/L	18	2.5	2.5	2.5						23	6	7
Phosphorous (Max)	µg/L	56	2.5	6	2.5						23	12	9
Phosphorous (6-Month Avg)	µg/L	13.3	13.0	11.1	11.4						13.7	13.1	7.3
Arsenic	µg/L	0.706	0.408	0.495	0.479						0.641	0.371	0.552
Chromium	µg/L	0.69	0.21	0.12	0.11						0.35	0.41	0.62
Copper	µg/L	2.50	2.50	2.50	2.50						2.50	2.50	2.50
Lead	µg/L	0.620	0.025	0.025	0.025						0.057	0.118	0.055
Zinc	µg/L	1.00	2.50	1.00	1.00						1.00	1.00	1.00
Oil Sheen	Yes/No	No	No	No	No						No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H1

Analyte	Units	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Flow (Avg)	CFS	0.33	0.22	0.20							0.26	0.35	0.28
Flow (Max)	CFS	0.43	0.27	0.22							0.38	0.43	0.33
pH (Min)	S.U.	8.2	8.2	8.3							8.0	8.2	8.3
pH (Max)	S.U.	8.2	8.2	8.3							8.0	8.2	8.3
Specific Conduct. (Min)	µmho/cm	1120	1130	1210							980	1070	1180
Specific Conduct. (Max)	µmho/cm	1160	1190	1240							1020	1150	1270
Turbidity (Max)	NTU	16	3	3							4	3	3
Dissolved Oxygen (Min)	mg/L	11.2	11.2	11.2							9.9	10.2	10.2
Phosphorous (Min)	µg/L	17	2.5	2.5							2.5	2.5	2.5
Phosphorous (Max)	µg/L	38	2.5	2.5							6	2.5	12
Phosphorous (6-Month Avg)	µg/L	12.3	12.0	11.1							9.0	7.9	7.8
Arsenic	µg/L	0.454	0.418	0.478							0.010	2.320	0.787
Chromium	µg/L	0.30	0.21	0.40							0.38	0.35	0.39
Copper	µg/L	2.50	2.50	2.50							2.50	2.50	7.00
Lead	µg/L	0.213	0.077	0.025							1.200	0.025	0.025
Zinc	µg/L	2.80	1.00	2.30							3.30	4.60	6.20
Oil Sheen	Yes/No	No	No	No							No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H1

Analyte	Units	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Flow (Avg)	CFS	0.41	0.25	0.25	0.20	0.48						0.20	0.27
Flow (Max)	CFS	0.43	0.33	0.27	0.22	0.57						0.22	0.27
pH (Min)	S.U.	8.2	8.0	8.3	8.0	7.8						8.0	8.0
pH (Max)	S.U.	8.3	8.0	8.3	8.0	7.9						8.1	8.1
Specific Conduct. (Min)	µmho/cm	870	1110	1320	1060	980						1090	1070
Specific Conduct. (Max)	µmho/cm	980	1190	1370	1120	1050						1100	1230
Turbidity (Max)	NTU	5	5	2	3	5						5	3
Dissolved Oxygen (Min)	mg/L	10.5	10.6	10.8	10.3	10.0						9.8	10.4
Phosphorous (Min)	µg/L	2.5	8	2.5	2.5	12						2.5	2.5
Phosphorous (Max)	µg/L	15	10	2.5	2.5	14						10	2.5
Phosphorous (6-Month Avg)	µg/L	4.6	5.7	5.7	5.4	7.2						7.0	6.0
Arsenic	µg/L	0.316	0.429	0.443	0.889	0.668						0.632	0.025
Chromium	µg/L	0.50	0.83	0.09	0.15	2.76						0.025	1.84
Copper	µg/L	2.50	2.50	2.50	1.48	2.50						11.00	7.00
Lead	µg/L	0.082	0.025	0.071	0.025	0.088						0.025	0.276
Zinc	µg/L	29.00	4.10	3.20	3.70	21.20						2.50	2.50
Oil Sheen	Yes/No	No	No	No	No	No						No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

**Pacific Coast Coal Company
Pond H1 Statistical Analysis**

Analyte	Units		Min	Avg	Max	Std.Dev.	Count	NPDES Limit	No. Exceed.	No. > D.L.	No. < D.L.	% < D.L.
Flow (Avg)	CFS		0.04	0.205	0.60	0.1180	74					
Flow (Max)	CFS		0.04	0.251	0.92	0.1576	74					
pH (Min)	S.U.		7.8	8.11	8.3	0.1193	74	6.5 - 8.5	0			
pH (Max)	S.U.		7.9	8.17	8.3	0.1131	74	6.5 - 8.5	0			
Specific Conduct. (Min)	µmho/cm		620	1007.6	1410	134.6514	74					
Specific Conduct. (Max)	µmho/cm		830	1053.1	1410	132.7158	74					
Turbidity (Max)	NTU		1	4.1	16	2.9235	74	<= 25	0			
Dissolved Oxygen (Min)	mg/L		9.7	10.68	11.4	0.5290	74	>= 9.5	0			
Phosphorous (Min)	µg/L		2.5	6.5	23	5.4631	74	<= 82	0	35	39	52.7%
Phosphorous (Max)	µg/L		2.5	11.8	56	10.4095	74	<= 82	0	55	19	25.7%
Phosphorous (6-Month Avg)	µg/L		2.5	9.42	14.8	3.0809		<= 41	0			
Arsenic	µg/L		0.010	3.217	10	2.8163	74			34	40	54.1%
Chromium	µg/L		0.025	0.651	3	0.5527	74	<= 15.3	0	36	38	51.4%
Copper	µg/L		0.5	2.17	11	1.7061	74	<= 14.5	0	26	48	64.9%
Lead	µg/L		0.025	4.729	21	6.3746	74			35	39	52.7%
Zinc	µg/L		0.3	4.14	94	11.4634	74			35	39	52.7%
Oil Sheen	Yes/No							No	0			
Temperature (Max - Q3 only)	deg F		54	61.0	65		3					

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H2

Analyte	Units	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
Flow (Avg)	CFS			0.05								0.10	0.17
Flow (Max)	CFS			0.05								0.17	0.17
pH (Min)	S.U.			7.8								8.2	7.9
pH (Max)	S.U.			7.8								8.2	7.9
Specific Conduct. (Min)	µmho/cm			880								720	780
Specific Conduct. (Max)	µmho/cm			880								910	780
Turbidity (Max)	NTU			2								11	6
Dissolved Oxygen (Min)	mg/L			10.6								10.1	10.7
Phosphorous (Min)	µg/L			5								35	12
Phosphorous (Max)	µg/L			5								93	12
Phosphorous (6-Month Avg)	µg/L												
Arsenic	µg/L			5								5	5
Chromium	µg/L			5								0.5	0.5
Copper	µg/L			1								0.5	2
Lead	µg/L			5								5	5
Zinc	µg/L			1								2	3
Oil Sheen	Yes/No											No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H2

Analyte	Units	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
Flow (Avg)	CFS	0.44	0.10	0.33	0.20	0.19					0.55	0.27	0.08
Flow (Max)	CFS	0.64	0.10	0.38	0.22	0.28					0.72	0.33	0.10
pH (Min)	S.U.	7.8	7.9	8.0	8.0	8.0					8.1	7.9	7.9
pH (Max)	S.U.	8.1	7.9	8.0	8.1	8.1					8.2	8.0	8.1
Specific Conduct. (Min)	µmho/cm	840	710	890	800	860					640	650	720
Specific Conduct. (Max)	µmho/cm	960	710	980	820	920					650	670	740
Turbidity (Max)	NTU	18	16	13	13	9					13	10	9
Dissolved Oxygen (Min)	mg/L	10.8	10.6	11.1	11.3	11.2					10.5	10.6	10.7
Phosphorous (Min)	µg/L	8	15	7	8	6					26	18	10
Phosphorous (Max)	µg/L	12	15	9	9	10					26	26	16
Phosphorous (6-Month Avg)	µg/L				20.8	9.6					12.4	14.5	14.3
Arsenic	µg/L	5	5	5	5	5					5	5	5
Chromium	µg/L	0.5	2	2	2	0.5					0.5	0.5	0.5
Copper	µg/L	0.5	4	0.5	0.5	0.5					0.5	0.5	0.5
Lead	µg/L	2	2	5	5	5					5	5	5
Zinc	µg/L	0.5	15	0.5	272	0.5					17	0.5	0.5
Oil Sheen	Yes/No	No	No	No	No	No					No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H2

Analyte	Units	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
Flow (Avg)	CFS	0.30		0.16	0.15	0.11	0.17				0.20	0.16	0.23
Flow (Max)	CFS	0.38		0.22	0.17	0.13	0.17				0.23	0.18	0.28
pH (Min)	S.U.	7.9		7.7	7.9	8.1	8.0				8.2	8.0	7.9
pH (Max)	S.U.	8.0		7.8	8.2	8.3	8.0				8.3	8.1	8.0
Specific Conduct. (Min)	µmho/cm	620		960	860	850	950				810	540	680
Specific Conduct. (Max)	µmho/cm	650		970	870	920	950				920	590	740
Turbidity (Max)	NTU	11		19	11	8	2				8	11	4
Dissolved Oxygen (Min)	mg/L	11.0		11.3	11.4	11.4	10.3				9.9	11.0	11.2
Phosphorous (Min)	µg/L	2.5		11	8	10	17				2.5	6	2.5
Phosphorous (Max)	µg/L	8		18	9	13	17				16	13	6
Phosphorous (6-Month Avg)	µg/L	13.8		14.8	14.9	12.5	11.1				10.5	11.2	9.4
Arsenic	µg/L	5		5	5	5	5				5	5	5
Chromium	µg/L	0.5		0.5	0.5	0.5	0.5				0.5	1	1
Copper	µg/L	0.5		1	1	0.5	0.5				0.5	3	2
Lead	µg/L	5		5	5	5	5				5	5	5
Zinc	µg/L	0.5		0.5	0.5	0.5	2				3	4	0.5
Oil Sheen	Yes/No	No		No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F									65			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H2

Analyte	Units	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
Flow (Avg)	CFS	0.22	0.28	0.51	0.62	0.12	0.10				0.02	0.54	0.42
Flow (Max)	CFS	0.27	0.38	0.64	0.72	0.13	0.10				0.02	0.64	0.57
pH (Min)	S.U.	7.9	7.9	8.0	8.2	8.1	8.2				8.2	8.0	8.0
pH (Max)	S.U.	8.0	8.0	8.1	8.3	8.2	8.2				8.2	8.1	8.1
Specific Conduct. (Min)	µmho/cm	840	810	500	560	710	710				980	900	870
Specific Conduct. (Max)	µmho/cm	860	880	680	650	840	710				1020	920	900
Turbidity (Max)	NTU	4	8	21	12	5	5				3	14	16
Dissolved Oxygen (Min)	mg/L	11.3	11.2	11.3	11.0	10.7	10.3				9.9	11.0	11.0
Phosphorous (Min)	µg/L	2.5	6	9	2.5	2.5	2.5				15	2.5	42
Phosphorous (Max)	µg/L	24	14	23	26	6	2.5				22	6	90
Phosphorous (6-Month Avg)	µg/L	10.2	10.0	10.4	11.2	10.3	10.7				11.7	10.6	19.7
Arsenic	µg/L	5	5	5	5	5	5				5	5	5
Chromium	µg/L	0.5	0.5	2	0.5	0.5	0.5				0.5	0.5	1
Copper	µg/L	0.5	0.5	5	2	0.5	0.5				0.5	2	5
Lead	µg/L	5	5	5	5	5	5				10	5	10
Zinc	µg/L	3	4	10	5	4	4				4	6	8
Oil Sheen	Yes/No	No	No	No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H2

Analyte	Units	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
Flow (Avg)	CFS	0.28	0.37	0.22	0.32	0.17	0.32				0.22	0.35	0.30
Flow (Max)	CFS	0.43	0.52	0.22	0.37	0.22	0.38				0.22	0.43	0.33
pH (Min)	S.U.	7.9	7.9	7.9	8.2	8.2	8.2				8.0	8.1	8.1
pH (Max)	S.U.	8.0	8.0	8.1	8.3	8.3	8.3				8.0	8.2	8.2
Specific Conduct. (Min)	µmho/cm	820	700	910	720	810	910				590	700	660
Specific Conduct. (Max)	µmho/cm	840	730	930	750	830	940				590	720	740
Turbidity (Max)	NTU	8	5	4	9	7	6				8	9	12
Dissolved Oxygen (Min)	mg/L	11.2	11.4	11.3	10.9	10.0	9.9				9.7	10.6	10.9
Phosphorous (Min)	µg/L	2.5	8	19	5	5	2.5				16	19	11
Phosphorous (Max)	µg/L	141	23	22	23	18	20				16	26	21
Phosphorous (6-Month Avg)	µg/L	30.2	32.2	32.8	32.0	33.2	24.1				14.7	16.0	15.1
Arsenic	µg/L	5	5	5	5	5	10				10	10	10
Chromium	µg/L	0.5	0.5	0.5	0.5	0.5	1.25				1.25	1.5	1.5
Copper	µg/L	2	0.5	1	2	0.5	4				2.5	2.5	2.5
Lead	µg/L	10	10	10	10	5	20				14	5	14
Zinc	µg/L	2	4	4	3	1	0.5				1	4.1	1
Oil Sheen	Yes/No	No	No	No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H2

Analyte	Units	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Flow (Avg)	CFS	0.22		0.27	0.44					0.36	0.37	0.10	0.09
Flow (Max)	CFS	0.33		0.27	0.50					0.44	0.64	0.13	0.13
pH (Min)	S.U.	7.8		7.9	8.0					8.0	7.9	7.9	7.8
pH (Max)	S.U.	7.8		7.9	8.1					8.2	8.0	7.9	7.8
Specific Conduct. (Min)	µmho/cm	910		990	450					640	560	680	900
Specific Conduct. (Max)	µmho/cm	970		990	700					720	840	970	910
Turbidity (Max)	NTU	7		13	19					8	8	8	6
Dissolved Oxygen (Min)	mg/L	11.1		11.1	11.0					9.8	9.9	10.1	10.4
Phosphorous (Min)	µg/L	5		15	2.5					6	2.5	2.5	16
Phosphorous (Max)	µg/L	10		15	9					8	6	2.5	65
Phosphorous (6-Month Avg)	µg/L	14.0		14.6	13.5					12.0	8.7	6.3	12.3
Arsenic	µg/L	10		0.407	0.347					0.583	0.424	0.520	0.523
Chromium	µg/L	1.25		1.5	0.77					2.28	0.57	0.37	0.32
Copper	µg/L	2.5		1.03	0.81					2.50	2.50	2.50	2.50
Lead	µg/L	12		0.142	0.025					1.160	0.118	0.643	0.025
Zinc	µg/L	1		0.90	0.76					124.00	1.00	1.00	1.00
Oil Sheen	Yes/No	No		No	No					No	No	No	No
Temperature (Max - Q3 only)	deg F									55			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H2

Analyte	Units	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
Flow (Avg)	CFS	0.41	0.12	0.35	0.30	0.33	0.12	0.02			0.14	0.17	0.16
Flow (Max)	CFS	0.44	0.13	0.43	0.32	0.38	0.13	0.02			0.17	0.17	0.17
pH (Min)	S.U.	7.8	8.0	8.2	8.1	8.2	8.1	7.9			8.1	8.0	8.0
pH (Max)	S.U.	7.9	8.0	8.3	8.2	8.3	8.1	7.9			8.1	8.1	8.0
Specific Conduct. (Min)	µmho/cm	810	880	950	910	930	940	1080			780	800	790
Specific Conduct. (Max)	µmho/cm	870	920	980	930	980	960	1080			790	820	930
Turbidity (Max)	NTU	16	7	9	8	6	6	4			6	5	6
Dissolved Oxygen (Min)	mg/L	10.8	11.0	11.1	11.0	10.2	10.0	9.8			9.9	10.0	10.4
Phosphorous (Min)	µg/L	2.5	5	12	12	9	10	31			20	6	2.5
Phosphorous (Max)	µg/L	7	12	12	20	18	15	31			20	13	5
Phosphorous (6-Month Avg)	µg/L	10.8	11.3	12.1	14.0	15.9	11.2	14.2			16.3	15.8	13.6
Arsenic	µg/L	0.467	0.439	0.413	0.362	0.357	0.453	0.756			7.540	0.450	0.325
Chromium	µg/L	0.86	0.26	0.42	0.22	0.29	0.17	0.11			0.37	0.26	0.23
Copper	µg/L	2.50	2.50	2.50	2.50	2.50	2.50	2.50			1.47	1.08	2.50
Lead	µg/L	0.247	0.076	0.145	0.096	0.140	0.025	0.025			0.133	0.025	0.025
Zinc	µg/L	1.00	1.00	1.00	1.00	1.00	6.60	1.00			2.38	3.21	2.50
Oil Sheen	Yes/No	No	No	No	No	No	No	No			No	No	No
Temperature (Max - Q3 only)	deg F							63					

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H2

Analyte	Units	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Flow (Avg)	CFS	0.36	0.20	0.21	0.07						0.33	0.32	0.51
Flow (Max)	CFS	0.38	0.27	0.32	0.07						0.33	0.42	0.64
pH (Min)	S.U.	8.1	8.0	8.1	8.2						8.2	8.0	8.1
pH (Max)	S.U.	8.3	8.1	8.2	8.2						8.2	8.1	8.2
Specific Conduct. (Min)	µmho/cm	410	970	950	1010						600	480	590
Specific Conduct. (Max)	µmho/cm	540	1020	1010	1010						600	510	650
Turbidity (Max)	NTU	15	15	17	5						13	18	21
Dissolved Oxygen (Min)	mg/L	10.9	10.9	10.9	10.9						9.8	9.8	10.0
Phosphorous (Min)	µg/L	12	2.5	9	5						26	16	12
Phosphorous (Max)	µg/L	53	2.5	9	5						26	25	14
Phosphorous (6-Month Avg)	µg/L	17.0	15.2	12.9	10.9						12.7	16.0	12.1
Arsenic	µg/L	0.802	0.243	0.354	0.273						0.387	0.374	0.339
Chromium	µg/L	1.00	0.19	0.16	0.15						0.42	0.33	0.41
Copper	µg/L	2.50	2.50	2.50	2.50						2.50	2.50	2.50
Lead	µg/L	0.689	0.025	0.025	0.025						0.131	0.025	0.071
Zinc	µg/L	0.0035	1.00	1.00	1.00						1.00	1.00	1.00
Oil Sheen	Yes/No	No	No	No	No						No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H2

Analyte	Units	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Flow (Avg)	CFS	0.33	0.20	0.22							0.24	0.33	0.23
Flow (Max)	CFS	0.38	0.22	0.27							0.38	0.38	0.27
pH (Min)	S.U.	8.1	8.1	8.2							7.8	8.1	8.1
pH (Max)	S.U.	8.2	8.2	8.2							8.1	8.1	8.2
Specific Conduct. (Min)	µmho/cm	910	860	880							630	680	700
Specific Conduct. (Max)	µmho/cm	940	950	910							780	720	840
Turbidity (Max)	NTU	15	10	7							6	7	5
Dissolved Oxygen (Min)	mg/L	11.0	11.1	11.1							10.0	10.1	10.2
Phosphorous (Min)	µg/L	12	2.5	2.5							2.5	5	2.5
Phosphorous (Max)	µg/L	29	9	2.5							6	7	10
Phosphorous (6-Month Avg)	µg/L	15.7	15.1	13.7							11.1	8.7	7.5
Arsenic	µg/L	0.315	0.260	0.229							0.010	1.840	0.460
Chromium	µg/L	0.18	0.33	0.29							0.15	0.37	0.30
Copper	µg/L	7.00	2.50	2.50							2.50	2.50	5.00
Lead	µg/L	0.141	0.066	0.025							0.129	0.050	0.060
Zinc	µg/L	2.80	3.50	2.90							3.70	4.10	4.10
Oil Sheen	Yes/No	No	No	No							No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond H2

Analyte	Units	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Flow (Avg)	CFS	0.38	0.21	0.18	0.15	0.36						0.12	0.30
Flow (Max)	CFS	0.43	0.27	0.18	0.17	0.44						0.14	0.33
pH (Min)	S.U.	8.1	7.9	8.2	8.0	7.9						8.0	7.9
pH (Max)	S.U.	8.2	7.9	8.2	8.1	8.0						8.2	8.0
Specific Conduct. (Min)	µmho/cm	540	970	1000	1060	600						810	690
Specific Conduct. (Max)	µmho/cm	660	1020	1040	1120	660						880	880
Turbidity (Max)	NTU	12	10	4	5	12						9	4
Dissolved Oxygen (Min)	mg/L	10.4	10.5	10.8	10.4	9.9						9.8	10.3
Phosphorous (Min)	µg/L	11	11	2.5	7	12						2.5	8
Phosphorous (Max)	µg/L	16	19	2.5	7	26						11	11
Phosphorous (6-Month Avg)	µg/L	6.4	7.9	7.9	8.4	10.5						10.6	10.0
Arsenic	µg/L	0.246	0.351	0.277	0.703	0.411						0.227	0.025
Chromium	µg/L	0.44	0.70	0.10	0.08	0.30						0.025	1.73
Copper	µg/L	2.50	2.50	2.50	1.62	2.50						2.50	2.50
Lead	µg/L	0.143	0.025	0.079	0.025	0.146						0.025	0.025
Zinc	µg/L	9.30	3.30	4.00	1.00	1.00						2.50	2.50
Oil Sheen	Yes/No	No	No	No	No	No						No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

**Pacific Coast Coal Company
Pond H2 Statistical Analysis**

Analyte	Units		Min	Avg	Max	Std.Dev.	Count	NPDES Limit	No. Exceed.	No. > D.L.	No. < D.L.	% < D.L.
Flow (Avg)	CFS		0.02	0.251	0.62	0.1310	74					
Flow (Max)	CFS		0.02	0.305	0.72	0.1697	74					
pH (Min)	S.U.		7.7	8.01	8.2	0.1296	74	6.5 - 8.5	0			
pH (Max)	S.U.		7.8	8.10	8.3	0.1365	74	6.5 - 8.5	0			
Specific Conduct. (Min)	µmho/cm		410	781.1	1080	155.2512	74					
Specific Conduct. (Max)	µmho/cm		510	841.4	1120	139.5524	74					
Turbidity (Max)	NTU		2	9.5	21	4.6940	74	<= 25	0			
Dissolved Oxygen (Min)	mg/L		9.7	10.62	11.4	0.5193	74	>= 9.5	0			
Phosphorous (Min)	µg/L		2.5	9.5	42	8.0316	74	<= 82	0	52	22	29.7%
Phosphorous (Max)	µg/L		2.5	19.1	141	21.6536	74	<= 82	3	69	5	6.8%
Phosphorous (6-Month Avg)	µg/L		6.3	14.00	33.2	6.0441		<= 41	0			
Arsenic	µg/L		0.010	3.209	10	2.9354	74			34	40	54.1%
Chromium	µg/L		0.025	0.701	5	0.7295	74	<= 15.3	0	42	32	43.2%
Copper	µg/L		0.5	1.99	7	1.2801	74	<= 14.5	0	22	52	70.3%
Lead	µg/L		0.025	3.500	20	4.2040	74			33	41	55.4%
Zinc	µg/L		0.0035	8.02	272	34.2847	74			41	33	44.6%
Oil Sheen	Yes/No							No	0			
Temperature (Max - Q3 only)	deg F		55	61.0	65		3					

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond I

Analyte	Units	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
Flow (Avg)	CFS			0.07								0.11	0.37
Flow (Max)	CFS			0.07								0.18	0.37
pH (Min)	S.U.			7.8								8.0	8.1
pH (Max)	S.U.			7.8								8.2	8.1
Specific Conduct. (Min)	µmho/cm			410								430	320
Specific Conduct. (Max)	µmho/cm			410								620	320
Turbidity (Max)	NTU			2								5	8
Dissolved Oxygen (Min)	mg/L			10.5								10.2	10.5
Phosphorous (Min)	µg/L			2.5								8	9
Phosphorous (Max)	µg/L			2.5								11	9
Phosphorous (6-Month Avg)	µg/L												
Arsenic	µg/L			5								5	5
Chromium	µg/L			6								0.5	0.5
Copper	µg/L			2								0.5	2
Lead	µg/L			5								5	5
Zinc	µg/L			2								0.5	12
Oil Sheen	Yes/No											No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond I

Analyte	Units	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
Flow (Avg)	CFS	0.77	1.05	1.10	1.15	1.10					0.13	0.12	1.08
Flow (Max)	CFS	1.16	1.05	1.15	1.15	1.15					0.17	0.14	1.10
pH (Min)	S.U.	7.9	8.3	8.2	8.2	8.2					8.0	8.0	8.3
pH (Max)	S.U.	8.1	8.3	8.2	8.3	8.3					8.1	8.1	8.3
Specific Conduct. (Min)	µmho/cm	220	630	770	580	560					480	450	550
Specific Conduct. (Max)	µmho/cm	230	630	820	640	610					490	460	560
Turbidity (Max)	NTU	12	18	20	18	10					9	8	6
Dissolved Oxygen (Min)	mg/L	10.9	10.7	11.2	11.4	11.3					10.3	10.6	10.7
Phosphorous (Min)	µg/L	9	2.5	7	6	2.5					15	13	2.5
Phosphorous (Max)	µg/L	22	2.5	11	10	22					19	21	2.5
Phosphorous (6-Month Avg)	µg/L				9.6	10.1					11.5	11.7	11.0
Arsenic	µg/L	5	5	5	5	5					5	5	5
Chromium	µg/L	0.5	1	0.5	0.5	2					0.5	0.5	0.5
Copper	µg/L	3	0.5	0.5	0.5	0.5					0.5	2	0.5
Lead	µg/L	10	5	5	5	5					5	5	5
Zinc	µg/L	2	12	2	0.5	0.5					0.5	2	0.5
Oil Sheen	Yes/No	No	No	No	No	No					No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond I

Analyte	Units	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10
Flow (Avg)	CFS	1.15		0.95	1.11	1.06	0.92				0.56	1.11	1.09
Flow (Max)	CFS	1.15		0.98	1.16	1.06	0.92				0.98	1.16	1.12
pH (Min)	S.U.	8.3		8.0	8.2	8.3	8.0				8.2	8.1	8.3
pH (Max)	S.U.	8.3		8.3	8.3	8.4	8.0				8.4	8.3	8.3
Specific Conduct. (Min)	µmho/cm	370		520	380	570	600				520	520	520
Specific Conduct. (Max)	µmho/cm	540		560	610	600	600				560	560	530
Turbidity (Max)	NTU	11		8	7	8	2				9	6	4
Dissolved Oxygen (Min)	mg/L	11.0		11.2	11.3	11.3	10.4				9.9	10.8	11.0
Phosphorous (Min)	µg/L	2.5		2.5	2.5	8	8				7	2.5	2.5
Phosphorous (Max)	µg/L	5		6	8	10	8				9	6	11
Phosphorous (6-Month Avg)	µg/L	10.1		9.5	8.3	7.0	5.2				6.2	6.3	6.8
Arsenic	µg/L	5		5	5	5	5				5	5	5
Chromium	µg/L	0.5		0.5	0.5	0.5	0.5				0.5	0.5	0.5
Copper	µg/L	0.5		2	0.5	0.5	0.5				0.5	3	0.5
Lead	µg/L	5		5	5	5	5				5	5	5
Zinc	µg/L	0.5		1	0.5	0.5	3				6	6	0.5
Oil Sheen	Yes/No	No		No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F									66			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond I

Analyte	Units	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
Flow (Avg)	CFS	1.12	1.12	1.05	1.09	1.00	1.05				0.02	0.91	1.00
Flow (Max)	CFS	1.12	1.12	1.05	1.12	1.02	1.05				0.03	1.04	1.03
pH (Min)	S.U.	8.2	8.2	8.3	8.3	8.2	8.4				8.0	8.2	8.1
pH (Max)	S.U.	8.3	8.3	8.3	8.3	8.4	8.4				8.1	8.4	8.3
Specific Conduct. (Min)	µmho/cm	370	560	530	440	490	560				830	610	590
Specific Conduct. (Max)	µmho/cm	380	570	550	460	560	560				870	640	630
Turbidity (Max)	NTU	4	8	9	10	3	3				5	10	10
Dissolved Oxygen (Min)	mg/L	11.1	11.1	11.2	11.0	10.7	10.4				9.9	11.0	11.0
Phosphorous (Min)	µg/L	2.5	15	2.5	2.5	2.5	15				7	2.5	35
Phosphorous (Max)	µg/L	20	20	11	29	2.5	15				13	2.5	50
Phosphorous (6-Month Avg)	µg/L	7.9	9.4	9.1	10.4	10.1	11.1				10.9	8.2	14.7
Arsenic	µg/L	5	5	5	5	5	5				5	5	5
Chromium	µg/L	0.5	0.5	0.5	0.5	0.5	0.5				0.5	0.5	1
Copper	µg/L	2	0.5	0.5	0.5	2	0.5				0.5	2	3
Lead	µg/L	5	5	5	5	5	5				20	5	5
Zinc	µg/L	4	4	5	6	4	5				4	6	5
Oil Sheen	Yes/No	No	No	No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond I

Analyte	Units	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
Flow (Avg)	CFS	0.63	0.95	0.75	1.01	0.92	0.98				0.22	1.09	1.05
Flow (Max)	CFS	1.04	1.05	0.86	1.10	1.06	1.05				0.22	1.12	1.05
pH (Min)	S.U.	7.9	8.2	8.2	8.3	8.3	8.3				7.9	8.3	8.2
pH (Max)	S.U.	8.2	8.4	8.2	8.4	8.4	8.4				7.9	8.4	8.4
Specific Conduct. (Min)	µmho/cm	320	550	490	600	560	600				410	580	460
Specific Conduct. (Max)	µmho/cm	610	650	630	620	590	640				410	620	610
Turbidity (Max)	NTU	4	7	3	4	3	4				12	7	3
Dissolved Oxygen (Min)	mg/L	11.1	11.3	11.2	10.9	10.0	9.9				9.7	10.5	10.9
Phosphorous (Min)	µg/L	8	2.5	2.5	2.5	2.5	7				30	5	7
Phosphorous (Max)	µg/L	15	14	21	2.5	6	17				30	5	14
Phosphorous (6-Month Avg)	µg/L	13.9	15.0	14.4	13.2	13.5	8.4				9.8	9.2	9.0
Arsenic	µg/L	5	5	5	5	5	10				10	10	10
Chromium	µg/L	0.5	0.5	0.5	0.5	0.5	1.25				1.25	1.5	1.5
Copper	µg/L	1	3	1	2	1	1				2.5	2.5	2.5
Lead	µg/L	5	5	5	10	5	10				5	5	12
Zinc	µg/L	0.5	5	4	3	0.5	0.5				1	4.1	1
Oil Sheen	Yes/No	No	No	No	No	No	No				No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond I

Analyte	Units	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
Flow (Avg)	CFS	0.96		1.12	1.05					0.33	0.41	0.12	0.87
Flow (Max)	CFS	1.05		1.12	1.05					0.38	0.44	0.13	1.10
pH (Min)	S.U.	8.3		8.2	8.1					8.1	7.8	7.9	8.1
pH (Max)	S.U.	8.3		8.2	8.3					8.2	7.9	8.0	8.4
Specific Conduct. (Min)	µmho/cm	590		610	340					450	390	420	610
Specific Conduct. (Max)	µmho/cm	620		610	530					480	550	610	660
Turbidity (Max)	NTU	6		3	7					7	5	6	5
Dissolved Oxygen (Min)	mg/L	11.0		11.0	11.1					9.8	10.0	10.0	10.4
Phosphorous (Min)	µg/L	2.5		5	2.5					2.5	2.5	2.5	2.5
Phosphorous (Max)	µg/L	5		5	2.5					7	7	2.5	2.5
Phosphorous (6-Month Avg)	µg/L	9.2		9.8	7.9					5.3	5.2	3.8	3.5
Arsenic	µg/L	10		0.757	0.792					0.844	0.802	0.618	0.800
Chromium	µg/L	1.25		1.5	0.50					0.46	0.43	0.49	0.36
Copper	µg/L	2.5		1.26	0.74					2.50	2.50	2.50	2.50
Lead	µg/L	5		0.072	0.025					0.434	0.195	14	0.025
Zinc	µg/L	1		0.84	0.82					88.40	1.00	1.00	2.90
Oil Sheen	Yes/No	No		No	No					No	No	No	No
Temperature (Max - Q3 only)	deg F									55			

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond I

Analyte	Units	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14
Flow (Avg)	CFS	0.95	0.78	0.75	1.09	0.42	0.99	0.98			0.04	0.10	0.12
Flow (Max)	CFS	1.12	1.05	1.06	1.12	0.50	1.05	0.98			0.05	0.10	0.13
pH (Min)	S.U.	8.1	8.2	8.1	8.3	8.1	8.3	8.2			8.0	8.0	7.9
pH (Max)	S.U.	8.2	8.4	8.3	8.4	8.2	8.3	8.2			8.1	8.0	7.9
Specific Conduct. (Min)	µmho/cm	580	610	620	590	610	640	600			580	470	350
Specific Conduct. (Max)	µmho/cm	610	650	660	620	640	650	600			600	490	420
Turbidity (Max)	NTU	12	5	5	6	4	4	6			2	5	5
Dissolved Oxygen (Min)	mg/L	10.8	11.1	11.2	11.1	10.3	9.9	9.7			9.8	10.0	10.2
Phosphorous (Min)	µg/L	2.5	2.5	2.5	2.5	2.5	2.5	15			2.5	2.5	2.5
Phosphorous (Max)	µg/L	9	6	5	2.5	8	2.5	15			6	15	7
Phosphorous (6-Month Avg)	µg/L	3.8	4.1	3.9	3.5	4.0	4.0	4.7			4.7	5.6	6.0
Arsenic	µg/L	0.839	0.986	0.749	0.832	0.739	1.030	1.130			1.050	0.660	0.457
Chromium	µg/L	0.93	1.24	0.32	0.34	0.27	0.24	0.19			0.18	0.27	0.26
Copper	µg/L	2.50	2.50	2.50	2.50	2.50	2.50	2.50			1.10	1.00	2.50
Lead	µg/L	0.318	0.078	0.060	0.077	0.087	0.025	0.025			0.025	0.081	0.058
Zinc	µg/L	1.00	1.00	1.00	1.00	1.00	3.10	1.00			4.39	5.74	2.60
Oil Sheen	Yes/No	No	No	No	No	No	No	No			No	No	No
Temperature (Max - Q3 only)	deg F							64					

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond I

Analyte	Units	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15
Flow (Avg)	CFS	0.51	1.05	1.05	0.07						0.17	0.22	0.34
Flow (Max)	CFS	0.64	1.05	1.05	0.07						0.17	0.27	0.45
pH (Min)	S.U.	7.7	8.3	8.3	8.2						8.2	8.0	8.0
pH (Max)	S.U.	8.0	8.4	8.4	8.2						8.2	8.1	8.1
Specific Conduct. (Min)	µmho/cm	290	590	570	600						420	340	340
Specific Conduct. (Max)	µmho/cm	300	630	620	600						420	360	360
Turbidity (Max)	NTU	6	5	6	6						10	14	13
Dissolved Oxygen (Min)	mg/L	10.7	10.5	10.4	10.9						9.7	9.8	10.0
Phosphorous (Min)	µg/L	9	2.5	2.5	2.5						27	11	9
Phosphorous (Max)	µg/L	21	2.5	2.5	2.5						27	37	15
Phosphorous (6-Month Avg)	µg/L	7.8	7.8	6.3	6.3						7.9	11.8	11.2
Arsenic	µg/L	0.334	0.720	0.924	0.457						0.655	0.157	0.386
Chromium	µg/L	0.34	0.24	0.21	0.13						0.43	0.29	0.21
Copper	µg/L	2.50	2.50	2.50	2.50						2.50	2.50	2.50
Lead	µg/L	0.149	0.025	0.025	0.025						0.310	0.542	0.094
Zinc	µg/L	0.0021	2.90	1.00	1.00						1.00	3.60	4.50
Oil Sheen	Yes/No	No	No	No	No						No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond I

Analyte	Units	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Flow (Avg)	CFS	1.05	1.05	1.05							0.12	0.92	1.05
Flow (Max)	CFS	1.05	1.05	1.05							0.13	1.05	1.05
pH (Min)	S.U.	8.3	8.3	8.3							7.9	8.3	8.4
pH (Max)	S.U.	8.3	8.4	8.4							8.0	8.3	8.4
Specific Conduct. (Min)	µmho/cm	620	570	590							420	510	570
Specific Conduct. (Max)	µmho/cm	630	620	600							490	530	590
Turbidity (Max)	NTU	8	6	5							8	5	4
Dissolved Oxygen (Min)	mg/L	10.9	11.1	11.0							9.9	10.0	10.0
Phosphorous (Min)	µg/L	2.5	2.5	2.5							2.5	2.5	2.5
Phosphorous (Max)	µg/L	21	2.5	2.5							2.5	2.5	10
Phosphorous (6-Month Avg)	µg/L	13.0	13.0	12.0							9.2	5.6	4.7
Arsenic	µg/L	0.857	0.879	0.791							0.153	2.060	1.410
Chromium	µg/L	0.27	0.25	0.40							0.025	0.45	0.80
Copper	µg/L	2.50	2.50	2.50							2.50	2.50	9.00
Lead	µg/L	0.084	0.025	0.025							0.056	0.057	0.053
Zinc	µg/L	5.40	1.00	1.00							3.30	7.40	7.10
Oil Sheen	Yes/No	No	No	No							No	No	No
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

Pacific Coast Coal Company - NPDES Permit WA-003083-0
Pond I

Analyte	Units	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
Flow (Avg)	CFS	1.05	1.05	1.05	1.05	1.05						0.12	0.30
Flow (Max)	CFS	1.05	1.05	1.05	1.05	1.05						0.13	0.38
pH (Min)	S.U.	8.3	8.3	8.4	8.2	8.0						7.9	7.5
pH (Max)	S.U.	8.4	8.4	8.4	8.3	8.1						7.9	7.6
Specific Conduct. (Min)	µmho/cm	570	620	600	570	540						430	310
Specific Conduct. (Max)	µmho/cm	590	650	600	580	550						440	370
Turbidity (Max)	NTU	3	4	3	3	9						7	4
Dissolved Oxygen (Min)	mg/L	10.2	10.5	10.6	10.4	9.9						9.9	10.2
Phosphorous (Min)	µg/L	2.5	2.5	2.5	2.5	8						2.5	2.5
Phosphorous (Max)	µg/L	11	2.5	2.5	2.5	8						11	5
Phosphorous (6-Month Avg)	µg/L	3.8	3.8	3.8	3.8	4.8						4.8	4.3
Arsenic	µg/L	0.849	1.020	0.845	1.150	0.865						0.392	0.025
Chromium	µg/L	0.43	1.01	0.24	0.12	0.84						0.025	3.61
Copper	µg/L	2.50	2.50	2.50	7.00	2.50						2.50	2.50
Lead	µg/L	0.089	0.025	0.080	0.025	0.025						0.082	0.107
Zinc	µg/L	9.00	3.90	5.50	1.00	1.00						2.50	2.50
Oil Sheen	Yes/No	No	No	No	No	No							
Temperature (Max - Q3 only)	deg F												

Note 1: Numbers in *italics* represent samples below the lab's detection limit; the values are entered as 50% of the detection limit.

**Pacific Coast Coal Company
Pond I Statistical Analysis**

Analyte	Units		Min	Avg	Max	Std.Dev.	Count	NPDES Limit	No. Exceed.	No. > D.L.	No. < D.L.	% < D.L.
Flow (Avg)	CFS		0.02	0.762	1.15	0.3893	74					
Flow (Max)	CFS		0.03	0.819	1.16	0.3968	74					
pH (Min)	S.U.		7.5	8.14	8.4	0.1774	74	6.5 - 8.5	0			
pH (Max)	S.U.		7.6	8.23	8.4	0.1729	74	6.5 - 8.5	0			
Specific Conduct. (Min)	µmho/cm		220	514.6	830	112.5810	74					
Specific Conduct. (Max)	µmho/cm		230	560.5	870	107.8417	74					
Turbidity (Max)	NTU		2	6.8	20	3.7280	74	<= 25	0			
Dissolved Oxygen (Min)	mg/L		9.7	10.57	11.4	0.5142	74	>= 9.5	0			
Phosphorous (Min)	µg/L		2.5	5.7	35	6.3040	74	<= 82	0	26	48	64.9%
Phosphorous (Max)	µg/L		2.5	10.6	50	9.1314	74	<= 82	0	53	21	28.4%
Phosphorous (6-Month Avg)	µg/L		3.5	8.03	15.0	3.3228		<= 41	0			
Arsenic	µg/L		0.025	3.284	10	2.7535	74			35	39	52.7%
Chromium	µg/L		0.025	0.670	6	0.8125	74	<= 15.3	0	37	37	50.0%
Copper	µg/L		0.5	1.97	9	1.3594	74	<= 14.5	0	23	51	68.9%
Lead	µg/L		0.025	3.304	20	3.8071	74			28	46	62.2%
Zinc	µg/L		0.0021	4.02	88	10.2754	74			42	32	43.2%
Oil Sheen	Yes/No							No	0			
Temperature (Max - Q3 only)	deg F		55	61.7	66		3					

**Pacific Coast Coal Company
Overall Summary Statistical Analysis**

Analyte	Units		Min	Avg	Max	Std.Dev.	Count	NPDES Limit	No. Exceed.	No. > D.L.	No. < D.L.	% < D.L.
Flow (Avg)	CFS		0.01	0.406	1.37							
Flow (Max)	CFS		0.01	0.479	1.75							
pH (Min)	S.U.		7.5	8.09	8.5			6.5 - 8.5	0			
pH (Max)	S.U.		7.6	8.17	8.5			6.5 - 8.5	0			
Specific Conduct. (Min)	µmho/cm		220	716.7	1410							
Specific Conduct. (Max)	µmho/cm		230	768.9	1410							
Turbidity (Max)	NTU		1	7.3	22			<= 25	0			
Dissolved Oxygen (Min)	mg/L		9.6	10.61	11.5			>= 9.5	0			
Phosphorous (Min)	µg/L		2.5	7.4	70			<= 82	0			
Phosphorous (Max)	µg/L		2.5	14.2	141			<= 82	5			
Phosphorous (6-Month Avg)	µg/L		2.5	10.82	33.2			<= 41	0			
Arsenic	µg/L		0.010	3.245	10							
Chromium	µg/L		0.025	0.716	7			<= 15.3	0			
Copper	µg/L		0.5	2.19	26			<= 14.5	1			
Lead	µg/L		0.025	3.793	21							
Zinc	µg/L		0.0021	5.55	385							
Oil Sheen	Yes/No							No	0			
Temperature (Max - Q3 only)	deg F											