Time: 1600		Sheen/Oil Present at Riverbank:	NO Sheen in water
Inspector: GAN+	Hard Boom:	Lineal Feet Deployed:	200"
		Anchored to Bank Properly	Ye5
		Tears/Damage Present:	NO
		Repairs Made:	NO
	Absorbent Boom:	Lineal Feet Deployed:	N/
		Anchored to Bank Properly:	
		Staining/Oil Present:	
		Lineal Feet Replaced:	14
Additional Notes/Comments:	Abstrated Boo.	m	
Time: 2000		Sheen/Oil Present at Riverbank:	NO Sheen in Water
Inspector: Bor Lameyor	Hard Boom:	Lineal Feet Deployed:	200"
		Anchored to Bank Properly	yes
		Tears/Damage Present:	NO
		Repairs Made:	1)
	Absorbent Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly:	/_A
		Staining/Oil Present:	/_//
16		Lineal Feet Replaced:	
Additional Notes/Comments:	AD Justel Book	n	
The second secon			



llient:	Duke Energy				Date:	<u> ナーンドートし</u>
ocation:	East End Gas Pla	nt, Ohio Rive	Ohio River Bank, 39.12081, -84.45449			9932.05001
me:	1200	√ *		Sheen/Qil Present at Riverbank:	**************************************	
pector:			Hard Boom:	Lineal Feet Deployed:		
				Anchored to Bank Properly		
				Tears/Damage Present:		
				Repairs Made:	- ,	**************************************
			Absorbent Boom:	Lineal Feet Deployed:		
				Anchored to Bank Properly:		
				Staining/Oil Present:		
				Lineal Feet Replaced:		
ditional Not	es/Comments:					
	1600		•	Sheen/Oil Present at Riverbank:	No sig	ns of ei
··	Les/Comments:	- 50N 1	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed:	No sig	ns of ei
· ··	1600	- 50V 1	Hard Boom:		No sig	ns of ei
··	1600	- 50V 1	Hard Boom:	Lineal Feet Deployed:	No sig	ns of ei
::	1600	50V 1	Hard Boom:	Lineal Feet Deployed: Anchored to Bank Properly	No sig	ns of ei
:	1600	-	Hard Boom:	Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present:	No sig	>
· ··	1600	-		Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made:	None)
e:	1600	-		Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed:	None)

		•	. 0 14
Time: 2000		Sheen/Oil Present at Riverbank:	No sign of eithe
Inspector: J. Palder	Sby Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	
		Tears/Damage Present:	
		Repairs Made:	
	Absorbent Boom:	Lineal Feet Deployed:	→
•		Anchored to Bank Properly:	
		Staining/Oil Present:	
		Lineal Feet Replaced:	
Additional Notes/Comments:	River bank under active	looked good, u	vater lovel still
Time:	- · · · · · · · · · · · · · · · · · · ·	Sheen/Oil Present at Riverbank:	
Inspector:	Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	
		Tears/Damage Present:	
		Repairs Made:	
	Absorbent Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Staining/Oil Present:	
,		Lineal Feet Replaced:	
Additional Notes/Comments:		•	

HEPACO

Client:	Duke Energy	111000	PINK	Date:	8-1-19
Location:	East End Gas Plar	nt, Ohio River Bank, 39.12081, -	84.45449	Job Number:	9932.05001
Time:	0820		Sheen/Qil Present at Riverbank:	Whe a	letectel
Inspector:		Hard Boom:	Lineal Feet Deployed:		
			Anchored to Bank Properly		/
			Tears/Damage Present:	/	A
			Repairs Made:		//
n		Absorbent Boom:	Lineal Feet Deployed:	6	
		es i i	Anchored to Bank Properly:	-	
	*	4,	Staining/Oil Present:	1	
			Lineal Feet Replaced: .		
Additional No	otes/Comments:		4		
			, ,		
Time:	1200		Sheen/Oil Present at Riverbank:	None	de tected
Inspector:		Hard Boom:	Lineal Feet Deployed:	N	//
			Anchored to Bank Properly		
			Tears/Damage Present:	1	7
}			Repairs Made:		
		Absorbent Boom:	Lineal Feet Deployed:	/	
			Anchored to Bank Properly:		
		19	Staining/Oil Present:		
			Lineal Feet Replaced:		
Additional Not	tes/Comments:				
	-		47		

Time: /aa		Sheen/Oil Present at Riverbank:	None detected
Inspector:	Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	
		Tears/Damage Present:	
		Repairs Made:	-/4
	Absorbent Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly: .	
		Staining/Oil Present:	· · · · · · · · · · · · · · · · · · ·
		Lineal Feet Replaced:	O
Additional Notes/Comments:			
-			
ime: Aun	4.0	Sheen/Oil Present at Riverbank:	None detecta
nspector:	Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	
		Tears/Damage Present:	11
		Repairs Made:	171
	Absorbent Boom:	Lineal Feet Deployed:	//
		Anchored to Bank Properly:	0
		Staining/Oil Present:	· · · · · · · · · · · · · · · · · · ·
4		Lineal Feet Replaced:	
Additional Notes/Comments:	•		
_			



Daily Boom Inspection Form River Bank Inspections

Client:	Duke Energy		3	Date:	0-2-11.
Location:	-	, Ohio River Bank, 39.12081, -	84.45449	Job Number:	9932.05001
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		no and a second		
Time:	0800		Sheen/Qil Present at Riverbank:	*	
nspector:	Pestin	Hard Boom:	Lineal Feet Deployed:		
)-		Anchored to Bank Properly	N	
			Tears/Damage Present:		11
•	e		Repairs Made:	/	H
		Absorbent Boom:	Lineal Feet Deployed:		
1			Anchored to Bank Properly:	/	
		0.0	Staining/Oil Present:	·	, ,
			Lineal Feet Replaced:		
dditional Note	es/Comments:		4		
ime:	1200		Sheen/Oil Present at Riverbank:	1-	
spector:	Austin	Hard Boom:	Lineal Feet Deployed:		
			Anchored to Bank Properly	M	
			Tears/Damage Present:	-	
3			Repairs Made:		1
		Absorbent Boom:	Lineal Feet Deployed:	_//	7
			Anchored to Bank Properly:	/	-1.12
, i			Staining/Oil Present;		
			Lineal Feet Replaced:		
Iditional Notes	/Comments:	. 9.			
	, . ,				

		·	4
Time: /600		Sheen/Oil Present at Riverbank:	Ho Sheen
Inspector: Austin	Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	N
		Tears/Damage Present:	
		Repairs Made:	1
	Absorbent Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly: .	
		Staining/Oil Present:	/
*		Lineal Feet Replaced:	
Additional Notes/Comments:			
	The state of the s		
Time: 2000	1.5	Sheen/Oil Present at Riverbank:	No Sheen
Inspector: Austin	Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	N/
		Tears/Damage Present:	
		Repairs Made:	14
	Absorbent Boom:	Lineal Feet Deployed:	
*		Anchored to Bank Properly:	
		Staining/Oil Present:	
		Lineal Feet Replaced:	
35			
Additional Notes/Comments:			



Client:	Duke Energy			Date:	8-5-17
Location:	East End Gas Plant, Oh	io River Bank, 39.12081, -	84.45449	Job Number:	9932.05001
Time:	0800		Sheen/Qil Present at Riverbank:	16 Shee	n presen
Inspector:	tamerson	Hard Boom:	Lineal Feet Deployed:		
			Anchored to Bank Properly		
			Tears/Damage Present:		
			Repairs Made:		/-
		Absorbent Boom:	Lineal Feet Deployed:	/	A
			Anchored to Bank Properly:		
	*		Staining/Oil Present:		,
	4		Lineal Feet Replaced: .		
Additional Notes	s/Comments:				
	-				
Time:	1200	- 1	Sheen/Oil Present at Riverbank:	No she	en presen
nspector: Z	Amerson	Hard Boom:	Lineal Feet Deployed:		
			Anchored to Bank Properly		
			Tears/Damage Present:		
40			Repairs Made:	N	
		Absorbent Boom:	Lineal Feet Deployed:		A
			Anchored to Bank Properly:		
,		9	Staining/Oil Present:		
			Lineal Feet Replaced:		
dditional Notes/	Comments:	7	-	1	
	-		1.0		

Time: 1600		Sheen/Oil Present at Riverbank:	No Sheen presen
Inspector: James son	Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	
		Tears/Damage Present:	
		Repairs Made:	N/
	Absorbent Boom:	Lineal Feet Deployed:	
*		Anchored to Bank Properly: .	
		Staining/Oil Present:	
		Lineal Feet Replaced:	
Additional Notes/Comments:			
		4	
_			
_			N 0
Time: 2000	* * * * * * * * * * * * * * * * * * * *	Sheen/Oil Present at Riverbank:	No Sheen present
	Hard Boom:		No Sheen present
		Sheen/Oil Present at Riverbank:	No Sheen present
Time: 2000		Sheen/Oil Present at Riverbank: Lineal Feet Deployed:	No Sheen present
		Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly	No Sheen present
		Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present:	No Sheen presem
	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made:	No Sheen present
	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed:	No Sheen present
	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed: Anchored to Bank Properly:	No Sheen present
	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed: Anchored to Bank Properly: Staining/Oil Present:	No Sheen present



Client: Duke Er	nergy		Date:	8-4-19
Location: East End	Gas Plant, Ohio River Bank, 39.1208.	1, -84.45449	Job Number:	9932.05001
Time: OS	200	Sheen/Qil Present at Riverbank:	16 Sha	pan Drasan
Inspector:	Hard Boom:	Lineal Feet Deployed:	7.10.	an present
		Anchored to Bank Properly		
		Tears/Damage Present:		/
		Repairs Made:	X	
· ·	Absorbent Boom	n: Lineal Feet Deployed:		A
di.	W. V.	Anchored to Bank Properly:		
		Staining/Oil Present:		
		Lineal Feet Replaced: .	./	1-1-1-1
Additional Notes/Commen	ts:			
		,		U
Time: 1200	7	Sheen/Oil Present at Riverbank:	No She	een presen
nspector:	Hard Boom:	Lineal Feet Deployed:		/
		Anchored to Bank Properly		
		Tears/Damage Present:	P	/
		Repairs Made:	N	
	Absorbent Boom:	: Lineal Feet Deployed:		/A
		Anchored to Bank Properly:		
		Staining/Oil Present:		
	244	Lineal Feet Replaced:		
dditional Notes/Comments	5:			
	· 			×

Time: 1600		Sheen/Oil Present at Riverbank:	No Sheen present
Inspector:	Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	
		Tears/Damage Present:	
		Repairs Made:	
	Absorbent Boom:	Lineal Feet Deployed:	
- A-		Anchored to Bank Properly:	
		Staining/Oil Present:	
		Lineal Feet Replaced:	
Additional Notes/Comments:			
Time: 2001		Sheen/Oil Present at Riverbank:	No sheen present
Inspector:	Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	
		Tears/Damage Present:	
		Repairs Made:	
	Absorbent Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly:	
		Staining/Oil Present:	
		Lineal Feet Replaced:	
Additional Notes/Comments:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
-			



Client:	Duke Energy			Date:	5-19
Location:	East End Gas Plan	nt, Ohio River Bank, 39.12081,	-84.45449	Job Number:	9932.05001
Time:	0800		Sheen/Qil Present at Riverbank:	16 Shee	n presen
Inspector:	Gent	Hard Boom:	Lineal Feet Deployed:		
			Anchored to Bank Properly	· · · · · · · · · · · · · · · · · · ·	
			Tears/Damage Present:	E-12 - 1	
			Repairs Made:		
)		Absorbent Boom:	Lineal Feet Deployed:	/	A
		15 1 1 KI	Anchored to Bank Properly:		
2 (0	*	£1	Staining/Oil Present:		
			Lineal Feet Replaced: .		
dditional Notes	s/Comments:			-1	
	-				
ime:	1200		Sheen/Oil Present at Riverbank:	No She	en preseni
spector: 6	ant	Hard Boom:	Lineal Feet Deployed:		<i></i>
			Anchored to Bank Properly		
			Tears/Damage Present:	_	
98			Repairs Made:		
		Absorbent Boom:	Lineal Feet Deployed:	/	A
			Anchored to Bank Properly:		
			Staining/Oil Present:		
			Lineal Feet Replaced:		
Iditional Notes/	/Comments:		14		
	_		•		

Time: 1600		Sheen/Oil Present at Riverbank: 16 Sheen
Inspector: <u>Gart</u>	Hard Boom:	Lineal Feet Deployed:
		Anchored to Bank Properly
		Tears/Damage Present:
		Repairs Made:
	Absorbent Boom:	Lineal Feet Deployed:
		Anchored to Bank Properly: .
		Staining/Oil Present:
		Lineal Feet Replaced:
Additional Notes/Comments:		
Time: 2001		Sheen/Oil Present at Riverbank: No Sheen
nspector: Easter	Hard Boom:	Lineal Feet Deployed:
		Anchored to Bank Properly
		Tears/Damage Present:
		Repairs Made:
	Absorbent Boom;	Lineal Feet Deployed:
		Anchored to Bank Properly:
		Staining/Oil Present:
		Lineal Feet Replaced:
Additional Notes/Comments:		
	-	



lient: Duke Energy			Date:	0 0 11
ocation: East End Gas Pl	ant, Ohio River Bank, 39.12081, -	-84.45449	Job Number:	9932.05001
. 0.			11 01	
ime: <u>0800</u>	20	Sheen/Qil Present at Riverbank:	MO Shee	n Prese
spector: Gant	Hard Boom:	Lineal Feet Deployed:		
		Anchored to Bank Properly		
		Tears/Damage Present:		
· ·				/
		Repairs Made:	/X	1
E	Absorbent Boom:	Lineal Feet Deployed:		#
	A 150 Kee	Anchored to Bank Properly:		
÷ "	,00	Staining/Oil Present:		7
	i.	Lineal Feet Replaced: .		
ditional Notes/Comments:				
				-
ne: 1200		Sheen/Oil Present at Riverbank:	No She	en prese
pector: Gont	Hard Boom:	Lineal Feet Deployed:		/
		Anchored to Bank Properly		/
		Tears/Damage Present:		
2			λ1	
		Repairs Made:		11
	Absorbent Boom:	Lineal Feet Deployed:		#
		Anchored to Bank Properly:		,
		Staining/Oil Present:		
		Lineal Feet Replaced:		
itional Notes/Comments:	-10		,	
idonal Notes/Comments.				——————————————————————————————————————

me: 1600		Sheen/Oil Present at Riverbank:	No Sheen
spector: Gont	Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	N
		Tears/Damage Present:	
		Repairs Made:	1/1
	Absorbent Boom:	Lineal Feet Deployed:	
1 2		Anchored to Bank Properly: .	/
		Staining/Oil Present:	
		Lineal Feet Replaced:	
ditional Notes/Comments:	-		
	·		
ie: 2001	-1	Sheen/Oil Present at Riverbank:	No Sheen
The state of	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed:	No Sheen
T at a s	Hard Boom:		No Sheen
T at a s	Hard Boom:	Lineal Feet Deployed:	No Sheen
The state of	Hard Boom:	Lineal Feet Deployed: Anchored to Bank Properly	No Sheen
The state of	Hard Boom: Absorbent Boom:	Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present:	No Sheen N A
The state of		Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made:	No Sheen No A
T at an		Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed:	No Sheen
The state of		Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed: Anchored to Bank Properly:	No Sheen No Sheen
dditional Notes/Comments:		Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed: Anchored to Bank Properly: Staining/Oil Present:	No Sheen No Sheen

HEPACO

Client:	Duke Energy	KIVEP 1	SANK INSPECTION	Date:	8-7-19
Location:	East End Gas Plant, O	hio River Bank, 39.12081, -	84.45449	Job Number:	9932.05001
Time:	0300		Sheen/Qil Present at Riverbank:	16 Shee	n Doesen
Inspector:	Gant	Hard Boom:	Lineal Feet Deployed:		
			Anchored to Bank Properly	•	
			Tears/Damage Present:		
			Repairs Made:		
4		Absorbent Boom:	Lineal Feet Deployed:		A
		G G	Anchored to Bank Properly:		
		1.5	Staining/Oil Present:		
	- 0		Lineal Feet Replaced:		· , , , , , , , , , , , , , , , , , , ,
Additional Notes	s/Comments:		- k -		
	-	,			-
ime:	1200		Sheen/Oil Present at Riverbank:	No She	en present
nspector:	pont.	Hard Boom:	Lineal Feet Deployed:	-	
			Anchored to Bank Properly		
			Tears/Damage Present:	-	
			Repairs Made:	N	
		Absorbent Boom:	Lineal Feet Deployed:	/	A
			Anchored to Bank Properly:		
<u>.</u>		*	Staining/Oil Present:	_/_	
			Lineal Feet Replaced:	1	
dditional Notes/	Comments:	į.	4		
	4				

Time: 1600		Sheen/Oil Present at Riverbank:	No Sheen
nspector: Pattersup	Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	N
		Tears/Damage Present:	
		Repairs Made:	<u> </u>
	Absorbent Boom:	Lineal Feet Deployed:	_/ H
**		Anchored to Bank Properly: .	/
		Staining/Oil Present:	
*		Lineal Feet Replaced:	G
dditional Notes/Comments:			
dditional Notes/Comments:		•	
20,40			No Sheen
mie: 2000		Sheen/Oil Present at Riverbank:	No Sheen
mie: 2000	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed:	No Sheen
mie: 2000		Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly	No Sheen
mie: 2000		Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present:	No Sheen
mie: 2000	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made:	No Sheen
mie: 2000		Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed:	No Sheen No A
mie: 2000	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed: Anchored to Bank Properly:	No Sheen A
me: Laterson	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed: Anchored to Bank Properly: Staining/Oil Present:	No Sheen A
mie: 2000	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed: Anchored to Bank Properly:	No Sheen A

HEPACO

Daily-Boom Inspection Form
River Bank Inspections

Client:	Duke Energy	7111-7 10		Date:	8-8-17
Location:	East End Gas Plant, O	hio River Bank, 39.12081, -	84.45449	Job Number:	9932.05001
Time:	1800		Sheen/Qil Present at Riverbank:	165	heen
Inspector:	sant	Hard Boom:	Lineal Feet Deployed:	·	
	te.		Anchored to Bank Properly Tears/Damage Present:		
			rears/Damage Present:	+	
		*	Repairs Made:	-, , , , , , , , , , , , , , , , , , , 	
ű.		Absorbent Boom:	Lineal Feet Deployed:		
	<i>.</i> *	18 18 ₁ •	Anchored to Bank Properly:		,
. 14		14	Staining/Oil Present:		
	1		Lineal Feet Replaced:		
Additional Notes/	Comments				
Additional Notes	comments.				*
	<u></u>		*		
Time:	200,		Sheen/Oil Present at Riverbank:	NO 5	heen
Inspector:	ant	Hard Boom:	Lineal Feet Deployed:		
			Anchored to Bank Properly		
			Tears/Damage Present:	-	
			Repairs Made:		
		Absorbent Boom:	Lineal Feet Deployed:	140	
			Anchored to Bank Properly:		
		•	Staining/Oil Present:		
100			Lineal Feet Replaced:	0	k.
Additional Notes/C	'amana auta				
(dultional Notes/C	omments:				±
	-	•			[11]

Time: 1600		Sheen/Oil Present at Riverbank:	NO Sheen
Inspector: Berikunger	Hard Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly	· · · · · · · · · · · · · · · · · · ·
		Tears/Damage Present:	*
		Repairs Made:	
	Absorbent Boom:	Lineal Feet Deployed:	
		Anchored to Bank Properly: .	
		Staining/Oil Present:	
10		Lineal Feet Replaced:	£
Additional Notes/Comments:	-		
Additional Notes/Comments:	*		
	- T	Sheen/Oil Present at Riverbank:	NO Sheen
rime: 2000	- T		NO Shepu
н	- T	Sheen/Oil Present at Riverbank:	NO Shepl
	- T	Sheen/Oil Present at Riverbank: Lineal Feet Deployed:	NO Sheen
н	- T	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly	NO Sheps
	- T	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present:	NO Sheps
	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made:	NO Shepl
Additional Notes/Comments: Time: 2000 Inspector: Becilemeze/	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed:	NO Sheps
	Hard Boom:	Sheen/Oil Present at Riverbank: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Lineal Feet Deployed: Anchored to Bank Properly:	NO Sheps

HEPACO

Daily Boom Inspection Form River Bunk Inspections

East End Gas Plant, Ol	hio River Bank, 39.12081, -	84.45449	Job Number:	
		* * * * * * * * * * * * * * * * * * * *	Job Number.	9932.05001
800		Sheen/Qil Present at Riverbank:	NOS	heen
writine yer	Hard Boom:	Lineal Feet Deployed:		
		Anchored to Bank Properly		· · · · · · · · · · · · · · · · · · ·
		Tears/Damage Present:		* ()
		Repairs Made:		
	Absorbent Boom:	Lineal Feet Deployed:		
		Anchored to Bank Properly:		
		Staining/Oil Present:		
		Lineal Feet Replaced:		
/Comments:				
· ,				
.00		Sheen/Oil Present at Riverbank:	No:	Sheed
- Honeyer	Hard Boom:	Lineal Feet Deployed:		
		Anchored to Bank Properly		
		Tears/Damage Present:		
		Repairs Made:		
	Absorbent Boom:	Lineal Feet Deployed:	-,	
		Anchored to Bank Properly:		
	Ĭ.	Staining/Oil Present:		
		Lineal Feet Replaced:	-	
/		Absorbent Boom:	Anchored to Bank Properly Tears/Damage Present: Repairs Made: Absorbent Boom: Lineal Feet Deployed: Anchored to Bank Properly: Staining/Oil Present: Lineal Feet Replaced: Comments: Sheen/Oil Present at Riverbank: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Absorbent Boom: Lineal Feet Deployed: Anchored to Bank Properly: Staining/Oil Present:	Hard Boom: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Absorbent Boom: Lineal Feet Deployed: Anchored to Bank Properly: Staining/Oil Present: Lineal Feet Replaced: Comments: Sheen/Oil Present at Riverbank: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Absorbent Boom: Lineal Feet Deployed: Anchored to Bank Properly Tears/Damage Present: Repairs Made: Absorbent Boom: Lineal Feet Deployed: Anchored to Bank Properly: Staining/Oil Present:

		*		
Inspector: PA Har Son		Sheen/Oil Present at Riverbank:	NO	Sheen
Inspector: PAHerson	Hard Boom:	Lineal Feet Deployed:		
		Anchored to Bank Properly		
		Tears/Damage Present:		
		Repairs Made:		
	Absorbent Boom:	Lineal Feet Deployed:		·
		Anchored to Bank Properly:	-	
		Staining/Oil Present:		
*		Lineal Feet Replaced:	,	
Additional Notes/Comments:			- J4) 24)	, , , ,
Time: 2000	4.0	Sheen/Oil Present at Riverbank:	NO	Sheen
nspector: Ber Keneyer	Hard Boom:	Lineal Feet Deployed:		
		Anchored to Bank Properly		-
		Antificited to Barner Toparty		
		Tears/Damage Present:		
	Absorbent Boom:	Tears/Damage Present:		
	Absorbent Boom:	Tears/Damage Present: Repairs Made:		•
	Absorbent Boom:	Tears/Damage Present: Repairs Made: Lineal Feet Deployed:		
	Absorbent Boom:	Tears/Damage Present: Repairs Made: Lineal Feet Deployed: Anchored to Bank Properly:		
Additional Notes/Comments:	Absorbent Boom:	Tears/Damage Present: Repairs Made: Lineal Feet Deployed: Anchored to Bank Properly: Staining/Oil Present:		

Todd.bachand@duke-energy.com

Email daily to:



Attachment 4

Chemicals of Concern - Benzene & PAH's

Polycyclic Aromatic Hydrocarbons (PAHs) -ToxFAQs™

This fact sheet answers the most frequently asked health questions (FAQs) about polycyclic aromatic hydrocarbons (PAHs). For more information, call the CDC Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Exposure to polycyclic aromatic hydrocarbons usually occurs by breathing air contaminated by wild fires or coal tar, or by eating foods that have been grilled. PAHs have been found in at least 600 of the 1,430 National Priorities List (NPL) sites identified by the Environmental Protection Agency (EPA).

What are polycyclic aromatic hydrocarbons?

(Pronounced pŏl'ĭ-sī'klĭk ăr'ə-măt'ĭk hī'drə-kar'bənz)

Polycyclic aromatic hydrocarbons (PAHs) are a group of over 100 different chemicals that are formed during the incomplete burning of coal, oil and gas, garbage, or other organic substances like tobacco or charbroiled meat. PAHs are usually found as a mixture containing two or more of these compounds, such as soot.

Some PAHs are manufactured. These pure PAHs usually exist as colorless, white, or pale yellow-green solids. PAHs are found in coal tar, crude oil, creosote, and roofing tar, but a few are used in medicines or to make dyes, plastics, and pesticides.

What happens to PAHs when they enter the environment?

- PAHs enter the air mostly as releases from volcanoes, forest fires, burning coal, and automobile exhaust.
- PAHs can occur in air attached to dust particles.
- Some PAH particles can readily evaporate into the air from soil or surface waters.
- PAHs can break down by reacting with sunlight and other chemicals in the air, over a period of days to weeks.
- PAHs enter water through discharges from industrial and wastewater treatment plants.

- Most PAHs do not dissolve easily in water. They stick to solid particles and settle to the bottoms of lakes or rivers.
- Microorganisms can break down PAHs in soil or water after a period of weeks to months.
- In soils, PAHs are most likely to stick tightly to particles; certain PAHs move through soil to contaminate underground water.
- PAH contents of plants and animals may be much higher than PAH contents of soil or water in which they live.

How might I be exposed to PAHs?

- Breathing air containing PAHs in the workplace of coking, coal-tar, and asphalt production plants; smokehouses; and municipal trash incineration facilities.
- Breathing air containing PAHs from cigarette smoke, wood smoke, vehicle exhausts, asphalt roads, or agricultural burn smoke.
- Coming in contact with air, water, or soil near hazardous waste sites.
- Eating grilled or charred meats; contaminated cereals, flour, bread, vegetables, fruits, meats; and processed or pickled foods.
- Drinking contaminated water or cow's milk.
- Nursing infants of mothers living near hazardous waste sites may be exposed to PAHs through their mother's milk.



Polycyclic Aromatic Hydrocarbons

How can PAHs affect my health?

Mice that were fed high levels of one PAH during pregnancy had difficulty reproducing and so did their offspring. These offspring also had higher rates of birth defects and lower body weights. It is not known whether these effects occur in people.

Animal studies have also shown that PAHs can cause harmful effects on the skin, body fluids, and ability to fight disease after both short- and long-term exposure. But these effects have not been seen in people.

How likely are PAHs to cause cancer?

The Department of Health and Human Services (DHHS) has determined that some PAHs may reasonably be expected to be carcinogens.

Some people who have breathed or touched mixtures of PAHs and other chemicals for long periods of time have developed cancer. Some PAHs have caused cancer in laboratory animals when they breathed air containing them (lung cancer), ingested them in food (stomach cancer), or had them applied to their skin (skin cancer).

Is there a medical test to show whether I've been exposed to PAHs?

In the body, PAHs are changed into chemicals that can attach to substances within the body. There are special tests that can detect PAHs attached to these substances in body tissues or blood. However, these tests cannot tell whether any health effects will occur or find out the extent or source of your exposure to the PAHs. The tests aren't usually available in your doctor's office because special equipment is needed to conduct them.

Has the federal government made recommendations to protect human health?

The Occupational Safety and Health Administration (OSHA) has set a limit of 0.2 milligrams of PAHs per cubic meter of air (0.2 mg/m³). The OSHA Permissible Exposure Limit (PEL) for mineral oil mist that contains PAHs is 5 mg/m³ averaged over an 8-hour exposure period.

The National Institute for Occupational Safety and Health (NIOSH) recommends that the average workplace air levels for coal tar products not exceed 0.1 mg/m³ for a 10-hour workday, within a 40-hour workweek. There are other limits for workplace exposure for things that contain PAHs, such as coal, coal tar, and mineral oil.

Glossary

Carcinogen: A substance that can cause cancer.

Ingest: Take food or drink into your body.

References

Agency for Toxic Substances and Disease Registry (ATSDR). 1995. Toxicological profile for polycyclic aromatic hydrocarbons. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Where can I get more information?

For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Human Health Sciences, 1600 Clifton Road NE, Mailstop F-57, Atlanta, GA 30329-4027.

Phone: 1-800-232-4636.

ToxFAQs™ Internet address via WWW is http://www.atsdr.cdc.gov/toxfaqs/index.asp.

ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

September 1996 Page 2 of 2

Benzene - ToxFAQs™

CAS # 71-43-2

This fact sheet answers the most frequently asked health questions (FAQs) about benzene. For more information, call the CDC Information Center at 1-800-232-4636. This fact sheet is one in a series of summaries about hazardous substances and their health effects. It is important you understand this information because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHTLIGHTS: Benzene is a widely used chemical formed from both natural processes and human activities. Breathing benzene can cause drowsiness, dizziness, and unconsciousness; long-term benzene exposure causes effects on the bone marrow and can cause anemia and leukemia. Benzene has been found in at least 1,000 of the 1,684 National Priority List (NPL) sites identified by the Environmental Protection Agency (EPA).

What is benzene?

Benzene is a colorless liquid with a sweet odor. It evaporates into the air very quickly and dissolves slightly in water. It is highly flammable and is formed from both natural processes and human activities.

Benzene is widely used in the United States; it ranks in the top 20 chemicals for production volume. Some industries use benzene to make other chemicals which are used to make plastics, resins, and nylon and other synthetic fibers. Benzene is also used to make some types of rubbers, lubricants, dyes, detergents, drugs, and pesticides. Natural sources of benzene include emissions from volcanoes and forest fires. Benzene is also a natural part of crude oil, gasoline, and cigarette smoke.

What happens to benzene when it enters the environment?

- Industrial processes are the main source of benzene in the environment.
- Benzene can pass into the air from water and soil.
- It reacts with other chemicals in the air and breaks down within a few days.
- Benzene in the air can attach to rain or snow and be carried back down to the ground.
- It breaks down more slowly in water and soil, and can pass through the soil into underground water.
- Benzene does not build up in plants or animals.

How might I be exposed to benzene?

- Outdoor air contains low levels of benzene from tobacco smoke, automobile service stations, exhaust from motor vehicles, and industrial emissions.
- Vapors (or gases) from products that contain benzene, such as glues, paints, furniture wax, and detergents, can also be a source of exposure.
- Air around hazardous waste sites or gas stations will contain higher levels of benzene.
- Working in industries that make or use benzene.

How can benzene affect my health?

Breathing very high levels of benzene can result in death, while high levels can cause drowsiness, dizziness, rapid heart rate, headaches, tremors, confusion, and unconsciousness. Eating or drinking foods containing high levels of benzene can cause vomiting, irritation of the stomach, dizziness, sleepiness, convulsions, rapid heart rate, and death.

The major effect of benzene from long-term exposure is on the blood. Benzene causes harmful effects on the bone marrow and can cause a decrease in red blood cells leading to anemia. It can also cause excessive bleeding and can affect the immune system, increasing the chance for infection. Some women who breathed high levels of benzene for many months had irregular menstrual periods and a decrease in the size of their ovaries, but we do not know for certain that benzene caused the effects. It is not known whether benzene will affect fertility in men.



Benzene

CAS # 71-43-2

How likely is benzene to cause cancer?

Long-term exposure to high levels of benzene in the air can cause leukemia, particularly acute myelogenous leukemia, often referred to as AML. This is a cancer of the bloodforming organs. The Department of Health and Human Services (DHHS) has determined that benzene is a known carcinogen. The International Agency for Research on Cancer (IARC) and the EPA have determined that benzene is carcinogenic to humans.

How can benzene affect children?

Children can be affected by benzene exposure in the same ways as adults. It is not known if children are more susceptible to benzene poisoning than adults.

Benzene can pass from the mother's blood to a fetus. Animal studies have shown low birth weights, delayed bone formation, and bone marrow damage when pregnant animals breathed benzene.

How can families reduce the risks of exposure to benzene?

Benzene exposure can be reduced by limiting contact with gasoline and cigarette smoke. Families are encouraged not to smoke in their house, in enclosed environments, or near their children.

Is there a medical test to determine whether I've been exposed to benzene?

Several tests can show if you have been exposed to benzene. There is a test for measuring benzene in the breath; this test must be done shortly after exposure. Benzene can also be measured in the blood; however, since benzene disappears rapidly from the blood, this test is only useful for recent exposures.

In the body, benzene is converted to products called metabolites. Certain metabolites can be measured in the urine. The metabolite S-phenylmercapturic acid in urine is a sensitive indicator of benzene exposure. However, this test must be done shortly after exposure and is not a reliable indicator of how much benzene you have been exposed to, since the metabolites may be present in urine from other sources.

Has the federal government made recommendations to protect human health?

The EPA has set the maximum permissible level of benzene in drinking water at 5 parts benzene per billion parts of water (5 ppb).

The Occupational Safety and Health Administration (OSHA) has set limits of 1 part benzene per million parts of workplace air (1 ppm) for 8 hour shifts and 40 hour work weeks.

References

Agency for Toxic Substances and Disease Registry (ATSDR) 2007. Toxicological Profile for Benzene (Update). Atlanta, GA: U.S. Department of Public Health and Human Services, Public Health Service.

Where can I get more information?

For more information, contact the Agency for Toxic Substances and Disease Registry, Division of Toxicology and Human Health Sciences, 1600 Clifton Road NE, Mailstop F-57, Atlanta, GA 30329-4027.

Phone: 1-800-232-4636

ToxFAQs™ Internet address via WWW is http://www.atsdr.cdc.gov/toxfaqs/index.asp.

ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

August 2007 Page 2 of 2



Attachment 5

Incident Photos

East End MGP – Ohio Riverbank Mitigation





July 18, 2019 Sheen Photo



July 18, 2019 Sheen Photo

East End MGP – Ohio Riverbank Mitigation





Aqua Gate Installation July 29, 2019



Reactive Core Mat Installation July 29, 2019

East End MGP – Ohio Riverbank Mitigation





Fencing & Concrete Curbing Installation July 31, 2019



River Bank Mitigation Completed July 31, 2019

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

4/1/2020 5:01:57 PM

in

Case No(s). 20-0053-GA-RDR, 20-0054-GA-ATA

Summary: Testimony Shawn Fiore SSF-5 Attachment (Part 2) electronically filed by Mrs. Debbie L Gates on behalf of Duke Energy Ohio Inc. and D'Ascenzo, Rocco O. Mr. and Kingery, Jeanne W and Vaysman, Larisa