

APPENDIX C: CHAINS OF CUSTODY

Project #: Entergy GW Mon Prog GEL Quote #: COC Number (1): PO Number: 50013510	GEL GEL Work Order Nu	Chain (**See ww mber:	of Cu	ISTOC om for C	y and GEL's San	d A	anal Acce	lytic	cal e SO	Rec	que	st			2040 : Charle	Savage eston, S	ories, LL Road C 29407 556-817	1
Client Name: Entergy		Phone #:	(914)	736-840)5				amal				(5)		Fax: (843) 76	6-1178	
Project/Site Name: Indian Point Energy Ce	nter	Fax #:) 734-6:		_			анирі	e Ana	iysis F	Ceques	sted "	(Fill	in the	numbe	er of cor	ntainers for each test)
Address: 450 Broadway, Suite 3,	Buchanan, NY 10511		(314	7 34-0	241	hould thi	sample be considered:	1.8			-0					_		< Preservative Type (6)
Collected by: Miguel Britos	Send Results To: Patrick	····		······································		S	1	of containers	<u>.</u>	SD) 3	0 (Sr9	Vi63)						Comments
Sample ID *For composites - indicate start and stop date/tin	*Date Collecte	T +T'	QC Code	Field Filtered (3)	Sample Matrix ⁽⁴⁾	Radioactive	TSCA Regulated	Total number of	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90	Nickel 63 (Ni63)						Note: extra sample is required for sample specific QC
MW-50-66-(021)	03/18/0	9 1516	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
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TAT Requested: Normal: ✓ Rush: S	Decify: (Subject to Surch	1																
Remarks: Are there any known hazards appli	cable to these samples?	arge) Fax Res	ults: list the l	Yes hazards	/ (1	No	<u> </u>	(Circle 1	Deliver	able: (C of A	/ QC	Sumn	nary /	Sa E C	mple Co astern entral	evel 2 / Level 3 / Level 4 Conclusion Conclusion
Rehinquished By (Signed) Date Time	n of Custody Signatures Received by (sig	/)										Samp	ole Shi	pping	2 and	N Delive	<u>fountain</u> ry Deta	ile
Musical A/26 3/18/09	1600 SECURE	ned) Date	18/0	me P	100		GEL P	PM:	ERI	N TR					Z		y zeu	113
	2	GE J	110 10	' '	160	- 1			nipme	ent:	FED	EX		D	ate Si	nipped:		
) Charles	3				·····		Airbill			•								
.) Chain of Custody Number = Client Determined) QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Dupl.) Field Filtered For liquid matrices, indicate with a Y - for yes the s.) Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surfac) Sample Analysis Requested Analytical method requested (i.e. 826) Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH=WHITI	e Water, WW=Waste Water, W=Wat	er, ML=Misc Liqui ainers provided for id, AA= Ascorbic	a, SO =Soil,	SD=Sedime	nt, SL ≈Sludį	ımple,	Solid W	, C= Cor	Dil. F ≃F	ilter. P=	Wipe, U	=Urine, 1	F=Fecal,	N-Nasa	ıl			For Lab Receiving Use Only Custody Seal Intact? YES NO Cooler Temp:

	GEL (GEL Work Order Num	. See ww	of Ci	ustod	y an GEL's Sa	d A	Ana Acce	lyti	ical	Re	que	est			2040 Charl	Laborate Savage eston, S	Road C 2940	07
Client Name: Entergy		Phone #:	(914)	736-840	15	T	· · ·								Fax:	(843) 76	6-117	Q
Project/Site Name: Indian Point Energy Cent	er	······································				_		T	Samp	le An:	alysis l	Reque	sted ⁽⁵⁾	(Fill	in the	numb	er of c	containers for each test)
Address: 450 Broadway, Suite 3, E		Fax #:	(914	734-6	247	ould this	sample be considered:			<u>_</u>	6							< Preservative Type (6)
Collected by Mar 1D :	Send Results To: Patrick D	\o = - b				Š	∓ 8 1 -	ontaine		(GS	(Sr9	(3)						
Sample ID • For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military)	QC Code	Field	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)						Comments Note: extra sample is required for sample specified.
U1-CSS-(011)	03/18/09	(hhmm) 1305						Ţ	1	5	Str	ž						
	03/18/01	1305	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
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TAT Requested: Normal: Rush: Spec	cify: (Subject to Surcharge) Fax Resu	ılts.	Vac		No	$\overline{}$											
emarks: Are there any known hazards applica.	ble to these samples? If s	o, please l	ist the l	hazards		INO _	<u> </u>		Circle	Delive	rable: (C of A	/ QC	Sumn	nary /	Sal E/C	nple C astern entral	Other
Date Time	of Custody Signatures Received by (signed)) Date	-									Samp	ole Shi	pping	and	M Deliver	ountai	in
George 3/18/09 1	GOI STORA	Date 3	ادا	me CO	160		GEL P	M:	ERI	N TF							y Dec	ans
	2	<u> </u>	1181	<u> </u>	160	- 1			hipme	ent:	FED	EX		D	ate SI	ipped:		
Choir of Court Library	3						Airbill		·····		·····							
Chain of Custody Number = Client Determined QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate Field Filtered For liquid matrices, indicate with a Y - for yes the samp	e, EB = Equipment Blank, MS= Matr	ix Spike Samnle	. MSD= M	atrix Snite	Dunlin-4- C	/ <i>F</i>	Airbill	#:			·			······································				
Matrix Codes DW-Drinking Water, GW-Groundwater, SW-Surface V	V 127227 227	was not tield iii	terea.				خ≔ Grab,	. C = Co	mposite								-	For Lab Receiving Use Only Custody Seal Intact?
Sample Analysis Requested. Analytical method requested (i.e. 8260B, Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= Soc WHITE =	6010B/7470) and number of containe dium Hydroxide, SA= Sulfuric Acid, A	A= Ascorbic A	cid, HX= I	lexane, ST =	Sodium Th	5€, 33™ 1). niosulfa	sond Wa	aste, O≃	Oil, F=F	ulter, P≕ added = i	Wipe, U=	Urine, F	≔Fecal, I	⊭Nasal	!		-	YES NO Cooler Temp:
WHITE -	LADORATORY	YI	ELLOW	/ = FILE			PI	NK =	CLII	ENT		- vidilk					<u></u>	<i>C</i>

Project #:		Chain (**See ww	of Ci	ustod	y an	d A	na Acce	lyti eptano	ical	Re	que	st		20	040 Sav	age Roa		
PO Number: 50013510	GEL Work Order No	ımber:														n, SC 2 ^e 43) 556		
Client Name: Entergy		Phone #:	(914)	736-840)5	T								Fa	x: (843	766-1	178	
Project/Site Name: Indian Point Energy Cer	nter	Fax #:				-			Samp	le Ana	lysis I	Reque	sted (5)	(Fill in	the nu	mber o	of contain	ners for each test)
Address: 450 Broadway, Suite 3,			(914	734-6	247	uld this	sample be considered:											< Preservative Type (6)
Collected by: Miguel Britos						Sh	Con	ntainer		(GS)	Sr90	(33)						
, gara antes	Send Results To: Patric	k Donahue					<u> </u>	o CO	13) Se	96	Įž						Comments
Sample ID * For composites - indicate start and stop date/tim	*Date Collect (mm-dd-yy)	Collected	QC Code	Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)						Note: extra sample is required for sample specifi QC
MW-66-21-(008)	03/17/0	9 1200	N	N	GW	Y Y		-	Ţ	9	S	Z		-			$\perp \perp$	
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TAT Requested: Normal: Rush: Sp	ecify: (Subject to Surch	arge) Fax Resi	.16	<u>-</u>			\dashv							l				
emarks: Are there any known hazards applic	cable to these samples?	If so, please I	ist the l	yes hazards		No	<u>) </u>	(Circle I	Deliver	able: (of A	/ QC <u>s</u>	Summar	y / Le	Sample Easter	ern F	2 / Level 3 / Level 4 ion Time Zone Pacific Other
Relinquished By (Signed) Date Time	n of Custody Signatures Received by (signature)											Samr	le Shin	ning a	nd Dol	Moun	ntain Details	
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2 3/1/01	1459 SEGURE	SE 3/1	7/09	1	459	~ 1					FED	EX		Date	Shipp	ad:		
	2					- 1	Airbill							1Dute	отпрр	cu.		
Chain of Custody Number = Client Determined						Α	virbill	#:										
QC Codes N=Normal Sample, TB = Trip Blank, FD=Field Duplic Field Filtered For liquid matrices, indicate with a Y-for yes the sa Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface	11/	- pre was not neight	itereu.				⊱ Grab,	C≖ Coı	mposite									Lab Receiving Use Only
Sample Analysis Requested. Analytical method remested G. 8260	water, ww=Waste Water, w=Wat	er, ML≖Misc Liquio	L SO=Soil,	SD =Sedimer 260B- 3, 6016	nt, SL =Sludg 0 <i>B/7470A</i> -	ge, SS=5 1).	Solid Wa	iste, O=(Oil, F=F	ilter, P =1	Wipe, U≔	Urine, F	⊨Fecal, N	=Nasal				Custody Seal Intact? YES NO
Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= S WHITE	= LABORATORY	id, AA= Ascorbic A	.cid, HX= l	Hexane, ST = V = FILE	Sodium Th	iosulfa	te, If no	preserva NK =	ative is a	idded = 1	eave field	i blank						Cooler Temp: C

Page: 1 of 1 Project #:Entergy GW Mon Prog GEL Quote #: COC Number (1): PO Number: 50013510	GEL Wor	GEL C	See ww	of Ci w.gel.c	ustod om for (y and GEL's Sa	d A	Ana Acce	lyti	cal ce SO	Re	que	st		20 C)40 Sav harleste	ooratorie vage Ros on, SC 2 843) 556	ad 29407	
Client Name: Entergy			Phone #:	(914)	736-840)5	Γ-								F	x: (84)	3) 766-1	178	
Project/Site Name: Indian Point Energy Ce	enter		Fax #:		734-6		- 5		T - 3	Samp	le Ana	lysis I	Reques	ted ⁽⁵⁾	(Fill in	the nu	ımber c	of conta	iners for each test)
Address: 450 Broadway, Suite 3	, Buchanan,	NY 10511		(0.,	7,704-0.		nould the	sample be considered:	_		<u> </u>	-6-							< Preservative Type (6)
Collected by: Miguel Britos		To: Patrick D	Onahuo				- 25	* 8 T	ontaine		sg) :	(Sr9	(Ni63)						Comments
Sample ID • For composites - indicate start and stop date/ti		*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Filtered (3)	Sample Matrix (4)	Radioactive	FSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (N						Note: extra sample is required for sample specif
MW-67-173-(008)	k	03/17/09	1400	N	N	GW	Y Y	Y	1	<u>T</u>	1	<u>- 25</u> 1	Z 1				-		
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TAT Requested: Normal: ✓ Rush: S																1			
emarks: Are there any known hazards apple	pecify: cable to these	(Subject to Surcharge) E samples? If so	Fax Resu o, please li	lts: st the l	Yes hazards	/ (1	Vo	>	(Circle 1	Deliver	able: (of A	/ QC S	ummar	y / L	Sampl	e Collect	2 / Level 3 / Level 4 tion Time Zone
Cha	n of Custody	G:-															Easte Centr	al	Pacific Other
Reinguished By (Signed) Date Time		Received by (sim. 1)	Date	Tir	me		\Box						Samp	le Ship	oing a	nd De	Mour livery I	าเลเท	
March A /36 3/17/09	1500	SECURE STORAG	D	1		100		GEL P	M:	ERI	N TR	EN							
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Chain of Custody Number = Client Determined	3						T	Airbill											
QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Dupl Field Filtered For liquid matrices, indicate with a Y - for yes the s Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Sunday			as not neta iii	.crca.			nple, (xirbill ; ⊱ Grab,		nposite		-				·		Fo	r Lab Receiving Use Only
- V = Santone Acid, MI = Nime Acid, SH	0B, 6010B/7470 α an: Sodium Hydroxide, E = LABORA'	d number of containers SA= Sulfuric Acid, A. FORY	A= Ascorbic Ac	id, HX= I	SD=Sedim e n 260B- 3, 6010 Hexane, ST = V = FILE	Sodium Thi	e, SS=:). iosulfa	te, If no	iste, 0 =0 preserva NK = 1	tive is a	idded = le	Vipe, U≔ eave field	Urine, F=	Fecal, N=	Nasal				Custody Seal Intact? YES NO Cooler Temp: C

age: 1 of 1 roject #: Entergy GW Mon Prog EL Quote #: OC Number (1): O Number: 50013510	GEL Work Order N	Chain (**See ww	of Ci	ustod om for (y and GEL's Sa	d A	na e Acce	lytic	cal e SO	Re	que	st		2040 Char	Laborate Savage Teston, S ne: (843)	Road C 29407	,
lient Name: Entergy		Phone #:	(914)	736-840)5	Γ			amni	A A na	lveje I	Paguasta	ı (5) (T	Fax:	(843) 76	6-1178	ntainers for each test)
'roject/Site Name: Indian Point Energ	y Center	Fax #:	(914) 734-6	247	<u> </u>	• *i	T	шир.		13131	requeste	1 (F	iii in th	e numbe	er of cor	ntainers for each test)
vddress: 450 Broadway, Su	ite 3, Buchanan, NY 1051	1		,		should th	sample be considered:			<u>6</u>	<u> </u>	-					< Preservative Type (6)
Collected by: Miguel Britos	Send Results To: Patric					- "	Т-	containers	<u> </u>	(G)	0 (Sr	Vi63)					Comments
Sample ID * For composites - indicate start and stop of	*Date Collec	ted *Time Collected	QC Code	Filtered (9)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90	Nickel 63 (Ni63)					Note: extra sample is required for sample specifi QC
MW-42-49-(016)	03/16/0	9 1450	N	N	GW	Y	Y	1	1	1	1	1					2 Liter Poly
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TAT Requested: Normal: ✓ Rush:	Specify: (Subject to Sure	harge) Fay Rec	ulte	Vaa				L			l		<u> </u>				
emarks: Are there any known hazards (applicable to these samples?	If so, please l	list the	Yes hazards		No	<u> </u>	C	ircle l	Deliver	able: (CofA /	QC Sur	mmary	Sale	l / Lev nple Col astern entral	vel 2 / Level 3 / Level 4 llection Time Zone Pacific Other
Relinquished By (Signed) / Date Time	Chain of Custody Signatures Received by (s											Sample	Shippi	ng and	Deliver	ountain v Detai	
F 80 4	SECUR	ED !	i	ime		-	GEL P	PM:	ERI	N TR	EN		- 11			y Octai	113
lague \$ \$7 3/16/09	1520 ISTOR	AGE 3	6/0	9 1	<u>5 2 (</u>			d of Sh	ipme	nt:	FED	EX		Date S	hipped:		\\
	3						Airbill										
Chain of Custody Number = Client Determined QC Codes N= Normal Sample. TB = Trip Blank, FD= Fie Field Filtered For liquid matrices, indicate with a Y - for y Matrix Codes DW=Drinking Water, GW=Groundwater, SW Sample Analysis Requested Analytical method requested (Preservative Type HA= Hydrochloric Acid, NL= Nitric Acid.	Surface Water, WW-Waste Water, W-W	ater, ML=Misc Liqui	iltered. d . SO =Soil.	, SD=Sedime	nt, SL =Slud	ample,	Solid W	o, C = Con aste, O =0)il, F ≃F	ilter, P ='	Wipe, U	·Urine, F=Fe	cal, N =Na	asal	1.12		For Lab Receiving Use Only Custody Seal Intact? YES NO
Preservative Type HA= Hydrochloric Acid, NI = Nitric Ac	id, SH= Sodium Hydroxide, SA= Sulfuric A HITE = LABORATORY	Acid, AA= Ascorbic /	\cid, HX =	Hexane, ST W = FILI	= Sodium T	1) hiosulf	ate, If no	preservai	tive is a	added = I	leave fiel	d blank					Cooler Temp:

rage: 1 of roject #: Entergy GW Mon Pro DEL Quote #:	og .	GEL C	Chain (of Ci	ustod	y and	d A	\na	lytic	cal	Re	que	st	#: <u></u>			ratories, ge Road		
OC Number (1): 50013510	GEL W	ork Order Numl		Ü		-22000	шрі	c ricc	cpiane	.c 30	'F''						, SC 294 3) 556-8		
Client Name: Entergy			Phone #:	(914)	736-840)5	Τ-								Fax	: (843)	766-117	78	
Project/Site Name: Indian Point E	neray Center						-		$\frac{s}{1}$	Samp	le Ana	lysis I	Reque	ste d (5) (Fill in t	he nun	ber of	containe	ers for each test)
	y, Suite 3, Buchana	n NV 10511	Fax #:	(912	734-6	247	ould this	sample be considered:	r										< Preservative Type (6)
Collected by: Miguel Britos		ılts To: Patrick D	\		•		-s	* §	of containers		(GS	(Sr9)	i63)						Comment
	Send Rest	T	onahue *Time	т —	T	т		lated		(H3)	Spec	n 90	63 (Ni63)						Comments Note: extra sample is
Sample ID * For composites - indicate start a		*Date Collected (mm-dd-yy)	Collected (Military) (hhmm)	QC Code	Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Fotal number	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 6					re	required for sample specification QC
MW-53-120-(014)		03/16/09	0940	N	N	GW	Y	Y	1	1	9	5	Z 1			+			
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TAT Requested: Normal: ✓ Ru	sh: SiC		<u> </u>																
Remarks: Are there any known ha	sh: Specify: z ards applicable to th	(Subject to Surcharge	Fax Resu	ilts:	Yes	/ <	No	≥ 1		Circle	Deliver	rable: (CofA	/ QCs	ummary	/ Lev	el I /	Level 2	/ Level 3 / Level 4
			o, picuse i	ist the	nuzurus												Sample (Eastern Central	Collectio Pa	on Time Zone acific Other
Relinquished By (Signed) , Date	Chain of Custo												Sami	le Ship	ning an	d Dali	Mounta	ain	. —
Tund Ila		Received by (signed	Date	Tr.	ime			GEL I	PM:	ERI	N TR	ŒN			7.1.g 411	d Den	rely De	Tans	
Chelique of 12	3/16/04 1521	SECURET STORA	DE 3/1	60	9	1521		Metho	od of SI			FED	EX		Date	Shippe			` .
		2			····			Airbil	! #:		***************************************				10.00	этррс			
) Chain of Custody Number = Client Determined		3						Airbil	l #:										
 QC Codes. N= Normal Sample, TB = Trip Blank, Field Filtered. For liquid matrices, indicate with a 	FD= Field Duplicate, EB = Equ Y - for yes the sample was field	ipment Blank, MS= Mati filtered or N - for sample	rix Spike Sample was not field fi	e, MSD= }	Matrix Spike	Duplicate Sa	ample,	G = Gral	o, C= Cor	mposite									Lah Receiving Use Only
) Matrix Codes. DW =Drinking Water, GW =Grounds) Sample Analysis Requested Analytical method re) Preservative Type HA = Hydrochloric Acid, NI =	equested (i.e. 8260B, 6010B/7470 Nitric Acid, SH- Sodium Hydro	waste Water, W-Water, I Mand number of containe kide, SA= Sulfuric Acid.	ML≖Misc Liquiders provided for AA= Ascorbic A	d, SO =Soil each (i.e. & Acid HV =	SD=Sedime 3260B- 3, 601	nt, SL =Slud 10B/7470,4 -	lge, SS 1)	⊨Solid W	/aste, O=(Oil, F =I	Filter, P ≈	Wipe, U	=Urine, I	?=Fecal, N=	Nasal		-		Custody Seal Intact? YES NO Cooler Temp:
	WHITE = LABOI	RATORY	Y	ELLO	W = FILE	– stratum T	11105111	iate, If n	o preserva INK =	ative is CLII	added = 1 ENT	leave fie	ld blank				L		C C

Page: 1 of 1 Project #:Entergy GW Mon Prog GEL Quote #: COC Number (1): PO Number: 50013510	GEL Wor	GEL (Chain (**See ww nber:	of Ci	ustod com for (ly an GEL's Sa	d A	Ana e Acc	lyti eptan	ical	Re	que	st			2040 S Charle	aboratori Savage Ro ston, SC (843) 55	oad 29407	
Client Name: Entergy			Phone #:	(914)	736.84	05	T									Fax: (8	343) 766-	1178	
Project/Site Name: Indian Point Energy Cen	ter						<u> </u>		1	Samp	le Ana	lysis l	Reque	sted (5)	(Fill	in the	number	of conta	iners for each test)
Address: 450 Broadway, Suite 3, I		NY 10511	Fax #:	(914	1) 734-6	247	ould this	sample be considered:	,		ļ								< Preservative Type (6)
Collected by: 1 1 1 1		s To: Patrick	Donahue		<u> </u>		- fs	Т-	Containe		(SS)) (Sr9((Ni63)						Comments
Sample ID * For composites - indicate start and stop date/time		*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	e Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90	Nickel 63 (N						Note: extra sample is required for sample specifications
MW-67-39-(008)		01/27/09	(615	N	N	GW	Y	Y	-	1		<u>s</u>	<u>Z</u>	\vdash		\dashv	_	-	
MW-67-105-(007)		542710		N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
MW-67-173-(007)		01/27/08			N	GW			1	1	1	<u>l</u>	1						2 Liter Poly
MW-67-219-(007)		01 27 89	1	N	N		Y	Y		1		1	1			_			2 Liter Poly
MW-67-276-(007)		יסורבונס		N	İ	GW	Y	Y	1	1	1	1	1		\perp				2 Liter Poly
MW-67-323-(007)		01/27/09		N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
MW-67-340-(007)		01/27/09		N	N	GW	Y	Y	1	1	1	1	1		\perp				2 Liter Poly
		1= 1 - 1	1 - 1 - 1	1	N	GW	Y	Y	1	1	1	1	1		_	_			2 Liter Poly
														\dashv	-	_			
								$\neg \dagger$	\dashv		\dashv				\dashv				
TAT Requested: Normal: Rush: Specermarks: Are there any known hazards applicatis is a split sample observed by the NRC	cify: ble to thes	(Subject to Surcharge samples? If	so, please l	ilts: ist the h	Yes hazards	/ (1	No	>	1	Circle	Deliver	able: (of A	/ QC	Sumn	ary /	Level 1 Samp	le Collec	2 / Level 3 / Level 4 tion Time Zone Pacific
Chain elinquished By (Signed) Date Time	of Custody	Signatures		· · · · · · · · · · · · · · · · · · ·													Cent	ral ntain	Other
Date Time		Received by (c)	d) Date	Tir	me	······································	+	GEL P	M.	F :			Samp	le Ship	ping	and D	elivery	Details	
agree 1/27/091	720 1	Secure	stores	1+71	19 (-	730					Trent FEDI	v			T				
	2		3				- 1	irbill #:			TEDI	-A		· · · · · · · · · · · · · · · · · · ·	Da	ite Ship	ped:		
Thain of Custody Number = Client Determined OC Codes N= Normal Sample, TB = Trip Black, ED - Field D. 19			······································												·		······································		
OC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicat iteld Filtered. For liquid matrices, indicate with a Y - for yes the samp datrix Codes. DW=Drinking Water, GW=Groundwater, SW=Surface N								⊱ Grab,	C= Co	mposite								Fo	r Lab Receiving Use Only
fatrix Codes DW-Drinking Water, GW-Groundwater, SW-Surface V ample Analysis Requested Analytical method requested (i.e. 8260B, reservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= Soc WHITE =	vater, wwwwwwas	te Water, W≐Water,	ML=Misc Liquid	, SO=Soil, S	SD=Sedimen	it, SL=Sludg	e, SS =S	Solid Wa	ste, O=(Oil, F =F	Filter, P=\	Vipe, U≃	Urine, F	⊱Fecal. N	⊨Nasal		Ī	· · · · · · · · · · · · · · · · · · ·	Custody Seal Intact?
The Hydrochione Acid, NI = Nitric Acid, SH= Soc	lium Hydroxide	SA= Sulfurio A == 4	tis provided for e	ach (i.e. 82	260 B- 3 , 6010	0 <i>B/7470A</i> - 1).										-		YES NO Cooler Temp:

Page: 1 of 1 Project #: Entergy GW Mon Prog GEL Quote #. COC Number (1): PO Number: 50013510 GEL	GEL (See ww	of Cu	IStod	y and GEL's Sa	d A	na e Acc	lyti	cal ce SC	Re	que	st		204 Ch:	0 Sava irlestor	ratories ge Road s, SC 29	nd 9407	
Client Name: Entergy		Phone #:	(914)	736 940)6	T -							· · · · · · · · · · · · · · · · · · ·	Fax	: (843)	766-11	178	
Project/Site Name: Indian Point Energy Center			······································			<u> </u>			Samp	le Ana	lysis l	Request	ed ⁽⁵⁾ (Fill in t	he nun	nber of	f contair	ners for each test)
Address: 450 Broadway, Suite 3, Bucha	non NV 40544	Fax #:	(914) 734-6 	247	uld this	sample be considered:											< Preservative Type (6)
Collected how						š	Con	ntainer		(GS)	(Sr90	3						
Send R	esults To: Patrick D	onahue					lea l	o Jo	F)) je	06	ž						Comments
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)						Note: extra sample is required for sample specifically QC
MW-66-21-(007)	01127109	1350	N	N	CW		1	1		19	<u> </u>	Z			<u> </u>		$\sqcup \downarrow$	
MW-66-36-(007)	01/27/09	1307	N		GW	Y	Y	1	1	1	1	1						2 Liter Poly
	01121101	1301	11	N	GW	Y	Y	1	1	1	1	1			ļ			2 Liter Poly
													\dashv	+-				
						\neg								-				
							-+											
TAT Requested: Normal: ✓ Rush: Specify:		1																
Remarks: Are there any known hazards applicable to This is a split sample observed by the NRC		o, please la	lts: ist the h	Yes azards	/ (1	No	>	(Circle	Deliver	able: (C of A /	QC St	ımmary	/ Lev	el I / Sample Easter Centra	rn F	2 / Level 3 / Level 4 ion Time Zone Pacific Other
Relinquished By (Signed) Date Time	ody Signatures Received by (signed)											Sampl	e Shinn	ing an	d Dolis	Mount	Hain .	
Colona William	i i		Tin				GEL P	PM:	Frin	Trent		рт	compp	ing an	J Den	very D	etails	
(2000 Von109 1770	1 Secre	Stock	42	7/cs l	720	N	Aethod o	of Shipn		FEDE								
	2	0				- 1	irbill #:							1Date S	hipped	l:		
) Chain of Custody Number = Client Determined	3					Τ.												
) QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Field Filtered For liquid matrices, indicate with a Y-for yes the sample was fi Matrix Codes DW-Drinking Water, GW-Groundwater, SW-Surface Water, W Sample Analysis Requested Analytical method requested (i c 8260B, 6010B/7) Preservative Type HA= Hydrochloric Acid NI = Nice Acid CH = Color of the C	V=Waste Water, W=Water, M	IL=Misc Liquid	, SO =Soil, §	SD=Sedimer	t. SL ≃Slude	mple, (G= Grab,	, C= Cor	an r				-					Lab Receiving Use Only Custody Seal Intact?
) Sample Analysis Requested Analytical method requested (i.e. 8260B, 6010B/7)) Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydrochloric Acid, NI = Nitric Acid,	170)Aand number of container roxide, SA= Sulfuric Acid, A DRATORY	A= Ascorbic A	cid, HX= H	60B- 3, 6016 lexane, ST = ' = FILE	Sodium Th	iosulfa	te, If no	preserva	tive is a	added = le	vipe, U≓ cave fiel	Urine, F≖ d blank	Fecal, N≔}	lasal				YES NO Cooler Temp: C

	GEL C	See ww	of Ci w.gel.c	ustod om for (y and GEL's Sa	d A	na e Acce	lytic	cal e SO	Re	que	st		2040 Sa Charlest Phone: (boratories wage Roa ton, SC 29	d 9407 -8171
lient Name: Entergy		Phone #:	(914)	736-840)5	Π		<u>.</u>	Samol	e Ano	lveie D	ogueste d	(5) (5:11	Fax: (84	3) 766-1	178
roject/Site Name: Indian Point Energy Center		Fax #:	(914	734-6	247	.2		T	/p.	Alla	llysis F	equestea	(Fill	in the n	umber o	f containers for each test)
ddress: 450 Broadway, Suite 3, Bud	chanan, NY 10511					Should th	sample be considered:	lers		S)	96		-			< Preservative Type (6)
11 11 11	d Results To: Patrick Do	nahue	· · · · · · · · · · · · · · · · · · ·			-	T	of containers	3)	Spec (GS)	06 (Sr90					Comments
() Sample ID • For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Filtered (3)	Sample Matríx (4)	Radioactive	TSCA Regulated	Total number o	Tritium (H3)	Gamma Sp	Strontium 90					Note: extra sample is required for sample speci
MW-42-49-(015)	012609	1616	N	N	GW	Y	Y	1	1	1	1					2 Liter Poly
				 			-					<u> </u>				
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										\dashv				_		
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•														1	+ +	
TAT Requested: Normal: ✓ Rush: Specify		I														
emarks: Are there any known hazards applicable	e to these samples? If so	Fax Resu , please li	ilts: ist the i	Yes hazards	/ <	No	<u> </u>	(Circle :	Deliver	able: C	of A / C	C Sumr	nary /	Level 1 / Sample Easter Centra	······································
Relinquished By (Signed) Date Time	Custody Signatures					T						Sample S	hinnin	rand D.	Moun	itain
A 64	Received by (signed) SECU(2日)	7		me			GEL P	PM:	Erin	Trent		oumpie B	ուհիում	and De	envery L	Petalls
funguel 1 175 1/26/04 1	700 STOVAG	JE Y	26	<u>09</u>	170	<u>c </u>	Method	of Shipn	nent:	FEDI	EX		D	ate Ship	oed:	
	3	······································					Airbill #	<u>:</u>								
Chain of Custody Number = Client Determined QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, E Field Filtered For liquid matrices, indicate with a Y - for yes the sample of Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface Wate Sample Analysis Requested Analytical method requested (i.e. 8260B. 601) Preservative Type HA= Hydrochloric Acid, N1 = Nitric Acid, SH= Sodius	er, WW=Waste Water, W=Water, MI	vas not tieta til L≈Misc Liquid	itered I, SO =Soil,	SD=Sedime	nt, SL=Slud	ample,	Solid W	o, C = Cor	Oil, F =F	ilter, P=	Wipe, U=	Utine, F =Foor	I N≃Naco	, , , , , , , , , , , , , , , , , , , ,		For Lab Receiving Use Only Custody Seal Intact?
Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium	ob/4/04and number of containers Hydroxide, SA=Sulfuric Acid, A/ ABORATORY	4= Ascorbic A	cid, HX=	2608-3, 601 Hexane, ST V = FILE	= Sodium TI	1) hiosulf	ate, If no	preserva INK =	ative is :	added = !	leave field	l blank	(vasa	•		YES NO Cooler Temp: C

Project #:Entergy Ground Water Monitoring Prog JEL Quote #: JOC Number (1): O Number:50013510 GEL W	GEL C	See ww	Of Ci w.gel.c	ISTOD om for (y and GEL's Sa	d A	Ana Acce	lytic eptanc	cal e SO	Re	que	st		20 C	040 Sav harleste	boratories vage Road on, SC 29 843) 556-	id 9407	
Client Name: Entergy		Phone #:	(014) 7	26 040										F:	ax : (84	3) 766-11	170	
Project/Site Name: Indian Point Energy Center						<u> </u>		S	Samp	le Ana	lysis F	Reque	sted ⁽⁵⁾	(Fill in	the nu	umber of	f contai	ners for each test)
Address. 450 Broadway, Suite 3, Buchanan,		Fax #:	(914) 7:	34-6247	·	ld this	sample be considered:											< Preservative Type (6)
Collected by: M						Shor	Sam	containers		GS)	Sr90	3)					1	> , (-)
Collected by: Miguel Britos Send Res	ults To: Patrick Do	nahue					1	of con	13)) ၁ ၁	3) 06	Ni6						Comments
Sample ID * For composites - indicate start and stop date time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90	Nickel 63 (Ni63)						Note: extra sample is required for sample spec QC
MW-53-82-(010)	01 2609	1200	N	N	GW	Y		F		9		Z						
MW-53-120-(013)	012609		N	N	GW	<u>Y</u>	Y	1	1	1	_1_	1						2 Liter Poly
					GW	<u> </u>	Y	1		1	_1	1				44		2 Liter Poly
									-									
								\dashv										
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						-			\downarrow									
TA1 Requested Normal: ✓ Rush: Specify:	<u></u>																	
marks: Are there any known hazards applicable to the		Fax Resu , please lis	ilts: et the ha	Yes zards	/	No	<u> </u>	C	Circle 1	Deliver	able: (of A	/ QC 9	Summar	y / L	Sample Easter	Collect	2 / Level 3 / Level 4 ion Time Zone Pacific Other
Chain of Custor	ly Signatures Received by (signed											Samr	le Shin	ning o	nd Da	Mount	tain	CAUCI
George 1/26/09 1701	SECURED ISPORAC	ı	Tir		1701	(GEL P	M:	Erin	Trent			ne omp	pring a	na De	nvery D	Petails	
	2	c 1/2	6/00	1	1 70)		Method o	of Shipm	ent:	FEDI	X			Date	Shippe	ed:		
ham of Custody Number - Client Determined	3		· · · · · · · · · · · · · · · · · · ·				cirbill #:											
C Codes N: Normal Sample TR / Ten Blank Etc. 17 Ltm.	ipment Blank, MS= Matri	x Spike Samole	MSD= M	atriv Call.	Danie	<u> </u> A	irbill #:										-	
							G= Grab,	C≈ Con	nposite							_		r Lab Receiving Use Only
ample Analysis Requested Analytical method requested (i.e. 8260B, 6010B/7476 reservative Type HA: Hydrochloric Acid, NI = Nitric Acid, SH: Sodium Hydrochloric WHITE = LABOI	Aand number of container ide. SA= Sulfuric Acid. A	s provided for e A= Ascorbic A	; su=Soil, : each (i e. 82 cid HY= 1	SD=Sedimer 260B- 3, 601 Jevans ST	nt, SL =Sludg 0B/7470A -	ge, SS=: 1)	Solid Wa	aste, O =C)il, F ≔F	ilter, P=1	Wipe, U-	Urine, F	⊱Fecal, N	Nasal		-		Custody Seal Intact? YES NO
WHITE = LAROI	2 A TODV	- Section A	oid, 11A= }	exane, ST	Sodium Th	niosulfa	te, If no	preserva	tive is a	added = 1	cave field	d blank				İ		Cooler Temp:

'roject #:Entergy Ground Water Monitoring Prog	GEL C	See ww	of Ci	ustod	y an GEL's Sa	d A	na e Acc	lyti	cal ce SC	Re	que	est		20 C1)40 Sava harleston	, SC 2940	7
lient Name: Entergy		Phone #:	(014)	736 0400									·	Fa	ix: (843)	3) 556-81 766-1178	
'roject/Site Name: Indian Point Energy Center						ـــ		1	Samp	le Ana	lysis	Reques	sted ⁽⁵⁾	(Fill in	the nun	iber of co	ontainers for each test)
Address: 450 Broadway, Suite 3, Buchar	DOW 107 4 05 4 1	Fax #:	(914) 7	34-6247		uld this	sample be considered:										< Preservative Type (6)
2011				· · · · · · · · · · · · · · · · · · ·		Sho	San	ntainers		Spec (GS)	(Sr90)						
offected by: MS/IM Send	Results To: Patrick Do	nahue					fed	o Jo	3	bec	06						Comments
Sample ID • For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number	Tritium (H3)	Gamma S	Strontium 90						Note: extra sample is required for sample specif
MW-62-18-(008)	01123/4	1155	N	N	GW	Y	Y	,	-		Š			-		 	
MW-62-37-(008)	01123169		N	N	GW		† —	1	1	1	<u>l</u>						2 Liter Poly
MW-62-53-(007)	01/23/09					Y	Y	1	1	1	1						2 Liter Poly
MW-62-71-(008)	1 1; \		N	N	GW	Y	Y	1	1	1	1						2 Liter Poly
MW-62-92-(008)	1 1 1 1		N	N	GW	Y	Y	1	1	1	1						2 Liter Poly
MW-62-138-(008)	01/23/09		N	N	GW	Y	Y	1	1	1	1						2 Liter Poly
MW-62-182-(008)	01/23/09		N	N	GW	Y	Y	1	1	1	1						2 Liter Poly
	01/25/01	277	N	N	GW	Y	Y	1	1	1	1						2 Liter Poly
								\dashv				_			-		
										_		_			1		
TAT Requested: Normal: ✓ Rush: Specify:	(Subject to Surcharge)		1			=	\dashv					l_		_L_			
emarks: Are there any known hazards applicable t	to these samples? If so,	Fax Resu please lis	t the ho	Yes nzards	/ (No	21	(Circle	Deliver	rable: (of A	/ QC	Summar	y / Lev	Eastern Central	evel 2 / Level 3 / Level 4 Conclude Conclude
Relinquished By (Signed) Date Time	Received by (signed)	D-4	77.									Samp	le Shi	ping a	nd Deliv	Mountain 'ery Deta	
Cyaco 133/09/14/0				me			GEL P	M:	Erin	Trent				<u> </u>		- Justia	113
93/69/19/0	1 Secures	torige	4231	01/4	10	N	Aethod	of Shipr	nent:	FED	EX			Date	Shipped		
	2			· · · · · · · · · · · · · · · · · · ·			virbill#	:									
Chain of Custody Number Client Determined	3		······				irbill#	:						· · · · · · · · · · · · · · · · · · ·			
OC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB Field Filtered For liquid matrices, indicate with a Y - for yes the sample with Matrix Codes DW-Driving Water CW-Groundware SW-	= Equipment Blank, MS= Matrix as field filtered o≠ N - for sample v	Spike Sample	, MSD= M tered	latrix Spike I	Ouplicate Sa	ımple, (G= Grab	. C ≃ Cor	mposite								For Lab Receiving Use Only
Sample Analysis Requested Analytical method requested (i.e. 8260B, 6010 Preservative Type HA* Hydrochloric Acid, NI = Nitric Acid, SH= Sodium	W W=Waste Water, W=Water, Mi B/7470) and number of containers Hydroxide, SA= Sulfuric Acid. A.	L≅Misc Liquid	, SO =Soil,	SD=Sedimer 2608- 3, 6016	nt. SL =Slud 0B/7470A -	ge, SS= 1)	Solid W	aste, O ≔	Oil, F ≃F	ilter, P-	Wipe, U	Urine, F	≒Fecal, N	=Nasal			Custody Seal Intact? YES NO Cooling Transport
WHITE = LA	BORATORY	YI	ELLOV	V = FILE	Sodium Ti	hiosulfa	ue, If no PI	preserva NK =	ative is:	added = 1 ENT	leave fiel	d blank					Cooler Temp: C

	GEL (· · See ww	of Cu w.gel.co	Istod om for (y and GEL's Sa	d A	Ana Acce	lyti	cal	Re	que	est		2 C P	2040 Sa Charles Phone:	aboratori avage Ro ton, SC (843) 55	oad 29407 56-8171	
Client Name: Entergy		Phone #:	(914) 7	36-8405)			:	Samo	le Ana	lveie	Regue	stad (5)	/EIL :	ax: (84	43) 766-	1178	ainers for each test)
Project/Site Name: Indian Point Energy Center		Fax #:	(914) 7:	34-6247		ig	• ë	Π			,,,,,,	T		(FIII II	n une n	lumber	of cont	
Address: 450 Broadway, Suite 3, Buchar	an, NY 10511					Should th	sample be considered:	tainers	-	S)	96	_		_	_		-	< Preservative Type (6)
Collected by: APIMB Send	Results To: Patrick D	onahue		-A		<u> </u>	Т	5	<u></u>	(B) 32	0 (Sr							Comments
Sample ID • For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)							Note: extra sample is required for sample specifically QC
MW-36-24-(013)	01/22/09	1248	N	N	GW	Y	Y	1	-			-			-	_	-	
MW-36-52-(012)	01/22/09		N	N .	GW	Y	-	1	-	1	1	-	$\vdash \vdash$	_				2 Liter Poly
	17270	- 37	14	IN .	Gw	Y	Y	l	1		1					_		2 Liter Poly
						-												
																_		
	·														+	+-	+	
												-+		\dashv	\dashv			
TAT Requested: Normal: ✓ Rush: Specify:	(Subject to Surcharge) Fax Resi	olte:	Vas			$\overline{}$											
Remarks: Are there any known hazards applicable t	o these samples? If so	o, please lis	st the ha	zards		No	<u> </u>	-	Circle	Deliver	able:	C of A	/ QC	Summa	nry /	Eas Cen	tern tral	el 2 / Level 3 / Level 4 ection Time Zone Pacific Other
Refinquished By (Signed) Date Time	Received by (signed	h									····	Sam	ple Shi	oning:	and D	<u> Mor</u> elivery	untain Detail	
Com Com Manager	1			me			GEL P	M:	Erin	Trent				P6		ciivei y	Detail	3
1/23/59 1636	1 Sicure	Strage	(/2)	409	1620	N	Aethod (FED	FX			In-	- CI :			
	2	3					Lirbill #							Dai	te Ship	pea:		
) Chain of Custody Number = Client Determined	3					Δ	irbill#											
QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB Field Filtered For liquid matrices, indicate with a Y - for yes the sample wa Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface Water, Sample Analysis Requested Analytical method requested in Steph Code	WW=Waste Water, W=Water, !	ML=Misc Liquid	t, SO =Soil,	SD=Sedime	nt, SL =Slud	ample, e	G= Grab Solid W	, C≖ Co aste. O=	Oil F=I	Filter D=	Wipe, U	≐Urine,	F=Fecal, I	←Nasal			1	For Lab Receiving Use Only Custody Seal Intact?
Tyurocinoric Acid, NI = Nitric Acid, SH= Sodium I	Hydroxide, SA= Sulfuric Acid, ABORATORY	AA= Ascorbic A	cid, HX= I	260B- 3, 601 Hexane, ST V = FILE	= Sodium T	1). hiosulfa	ate, If no	preserv	ative is CLI	added = :	leave fie	ld blank						YES NO Cooler Temp: C

Page: 1 of 1 Project #: Entergy Ground Water Monitoring Prog GEL Quote #: COC Number (1): PO Number: 50013510 GEL We	GEL C	**See ww	of Cu w.gel.c	ustod om for C	y and GEL's Sa	d A	na Acce	lyti	ical	Re	que	st		20 Ch	40 Sava arlesto	oratorie age Roa n, SC 2 43) 556	29407	
Client Name: Entergy		Phone #:	(914) 7	36-8405										Fa	x: (843	766-1	1178	
Project/Site Name: Indian Point Energy Center				34-6247		_		1	Samp	le Ana	llysis F	Reques	sted (5)	Fill in	the nu	mber o	of conta	iners for each test)
Address: 450 Broadway, Suite 3, Buchanan, I	NY 10511					tould thi	sample be considered:	2		 	6							< Preservative Type (6)
College 11 A A	alts To: Patrick Do	nahue				15	т —	containe		c (GS	(Sr9	163)						Comments
Sample ID • For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)						Note: extra sample is required for sample specif
MW-50-42-(016)	01/22/19		N	N	GW	Y		1						-		_		
MW-50-66-(020)	01/22/09		N	N	GW	<u>Y</u>	Y	1	1	1	1	1				-	-	2 Liter Poly
	70,00	01	-11	1	GW	Y	Y	1	1	1	1	1				 		2 Liter Poly
														_	-	-		
																		
		-															ļ	
TAT Requested: Normal: Rush: Specify:																		
Remarks: Are there any known hazards applicable to the) Fax Resu o, please lis	ilts: st the ho	Yes azards	/ (No	<u> </u>		Circle	Delive	rable: (C of A	/ QC:	Summar	y / La	Easte Cent	ern tral	12 / Level 3 / Level 4 ction Time Zone Pacific Other
Relinquished By (Signed) Date Time	Received by (signed) Date	T	me								Samp	ole Ship	ping a	nd Del	Mou ivery	_{intain} Details	
12218 Va						1	GEL P	M:	Erin	Trent								
1/22/19 1636	1 sacyo	storage	4331	0910	<u>ه ک د</u>		dethod	of Ship	ment:	FED	EX			Date	Shippe	ed:		
	3	7		-			Airbill #	:										
Chain of Custody Number = Client Determined QC Codes N= Normal Sample, TB = Trip Blank FD= Field Duplicate FD= F							Airbill #	:					·					
QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equiper Field Filtered. For liquid matrices, indicate with a Y - for yes the sample was field Matrix Codes DW=Drinking Water, GW=Groundwater, SW=System System Syst	pment Blank, MS= Matr filtered or N - for sample	ix Spike Sampl was not field fi	e, MSD= N ltered.	fatrix Spike	Duplicate Sa	imple,	G= Grab	, C = Co	omposite	;							F	or Lab Receiving Use Only
Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Sample Analysis Requested Analytical method requested (i.e. 8260B, 6010B/7470 Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydrox WHITE = LABOR	Waste Water, W=Water, N	AL=Misc Liquid	i, SO =Soil,	SD=Sedime 260B- 3, 601	nt, SL =Slud <i>0B/7470A</i> -	ge, SS= 1).	Solid W	aste, O≕	=Oil, F ≔l	Filter, P=	Wipe, U	=Urine, I	P=Fecal, N	=Nasal				Custody Seal Intact? YES NO
WHITE = LABOR	RATORY	Y	cia, HX= ELLOV	Hexane, ST V = FILE	= Sodium Ti	hiosulf	ate, If no PI	preserv NK =	vative is = CLI	added = ENT	leave fiel	d blank				L	· · · · · · · · · · · · · · · · · · ·	Cooler Temp: C

	GEL (ork Order Num	Sec WW	Of Ci w.gel.c	ustod om for (ly an GEL's Sai	l A	na Acce	lyti(eptance	cal e SO	Re	que	est		20 Cl	EL Labor 040 Savan harleston none: (84	ge Road SC 294	907
Client Name: Entergy		Phone #:	(914) 7	36.840				····				·····		Fe	v · (843)	766 117	10
Project/Site Name: Indian Point Energy Center		_						S	amp	le Ana	lysis l	Reques	ted ⁽⁵⁾	(Fill in	the num	ber of c	containers for each test)
Address: 450 Broadway, Suite 3, Buchanan,	NV 10511	Т ш х нт.	(314) /	34-6247		ould this	sample be considered:										< Preservative Type
Collected by: AA 44.0	ults To: Patrick D					-š	. 5	ontainers		Spec (GS)	(Sr90		T				
Sent Res		·		-			ated	r of co	H3)	bec	06						Comments
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number	Tritium (H3)	Gamma S	Strontium 90 (Sr90						Note: extra sample required for sample sp
MW-37-22-(013)	01/21/09	1	N	N	CW			To	<u> </u>		Str		_				40
MW-37-32-(013)	01/21/09	1			GW	Y	Y	1	1	1	1						2 Liter Poly
MW-37-40-(013)	01/22/09			N	GW	Y	Y	1	1	1	1						2 Liter Poly
MW-37-57-(013)	01/21/09			N		Y	Y	1	1	1	1						2 Liter Poly
	042.101	172	N	N	GW	Y	Y	1	1	1	1						2 Liter Poly
						4		\bot	_								
						\dashv											
						4											
						\downarrow											
															1		
TAT Requested: Normal: Rush: Specify:													\top		+ +	_	
emarks: Are there any known hazards applicable to the	(Subject to Surcharge ese samples? If so	Fax Resu O, please lis	lts: t the ha	Yes zards	/ (8)	0		Ci	rcle [Delivera	able: C	of A	/ QC S	Summary	13	el 1 / 1 ample Co Eastern	
Chain of Custo	dy Signatures		 													Central Mountair	Other
elinquished By Signedia Date Time 1530 a 1/23/04 1620	Received by (signed	1./~	ri/ (Tin	ie 530		G	EL PI	M: E	Erin T	Trent		Sample	e Ship	ping ar	d Deliv	ery Deta	ails
123101 1620	1 3 1/2/	tye Vs	2/09	162	શ	M	ethod o	f Shipme			X		·	Data	Cl		
	2						rbill#:						·····	Date	Shipped:		
Thain of Custody Number = Client Determined	3					Ai	rbill #:										-
OC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Equield Filtered For liquid matrices, indicate with a Y - for yes the sample was field fatrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=	pment Blank, MS= Matr filtered or N - for sample Vaste Water W= Water	ix Spike Sample, was not field fill	, MSD= Ma	ıtrix Spike E	Suplicate Sam	ple, G	∈ Grab, (C= Comp	osite								For Lab Receiving Use Only
fatrix Codes Dw=Drinking Water, GW=Groundwater, SW=Surface Water, WW= ample Analysis Requested Analytical method requested (i.e. 8260B, 6010B/747(reservative Type HA= Hydrochloric Acid, NI= Nitric Acid, SH= Sodium Hydror WHITE = LABOI	Aand number of contained ide, SA= Sulfuric Acid, A	n∟=Misc Liquid, rs provided for e AA= Ascorbic Aa	. SO=Soil, S ach (i.e. 82a aid. H¥= □	D=Sedimen 60B- 3, 6016	t, SL=Sludge B/7470A - 1)	SS =Sc	olid Was	ite, O =Oil	l, F =Fi	lter, P =W	/ipe, U≔l	Urine, F=I	Fecal, N≔	Nasal			Custody Seal Intact? YES NO
WHITE = LABOI	RATORY	YE	LLOW	= FILE	sodium Thic	sulfate	, If no p PIN	reservativ	ve is ac	dded = le	ave field	blank					Cooler Temp: C

	GEL (**See ww	of Ci w.gel.c	ustod om for (y an GEL's Sa	d A	Ana Acce	lyti	cal ce SO	Re	que	st		20 Ch Ph	40 Savi arlesto one: (8	oratories age Roa on, SC 29	ed 9407 8171	
Client Name: Entergy		Phone #:	(914) 7	736-8405	5				Samp	le Ana	lysis I	Reque	sted ⁽⁵⁾	(Fill in	x: (843 the nu) 766-11 mber of	f contai	ners for each test)
Project/Site Name: Indian Point Energy Center		Fax #:	(914) 7	34-6247		th si	ed Pe					T		Ì		111001 01	T	
Address: 450 Broadway, Suite 3, Buchanan,	NY 10511					Should	sample be considered:	l s		<u>s</u>	96	\vdash	\vdash					< Preservative Type (6)
Collected by: Mignel Britos Send Res	ults To: Patrick D				,		T .	r of containers	H3)	Spec (GS)	1 90 (Sr	(Ni63)						Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number	Tritium (H3)	Gamma S	Strontium 90 (Sr90)	Nickel 63 (Ni63)						required for sample specif
MW-51-40-(010)	1/20/09	1450	N	N	GW	Y	Y	1		1	<u>s</u>			_	+-			
MW-51-79-(010)	1/20/09		N	N	GW	Y		1	1	1	<u> 1</u>	1		_			-	2 Liter Poly
MW-51-104-(008)	1/20/09		 	 			Y	1	1	1	<u>l</u>	1						2 Liter Poly
MW-51-135-(008)	1/20/09	1.0		N	GW	Y	Y	1	1	1	11	1						2 Liter Poly
MW-51-163-(008)	1//	1102	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
MW-51-189-(008)	1/20/09		N	N	GW	Y	Y	_1	1	1	1_	1						2 Liter Poly
1277 37 107-(008)	1/20/09	1133	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
			· · · · · · · · · · · · · · · · · · ·	1														
TAT Requested: Normal: ✓ Rush: Specify:																		
Remarks: Are there any known hazards applicable to th		e) Fax Resu O, please lis	ilts: St the h	Yes azards	/ (No	> 1		Circle	Delive	rable: (C of A	/ QC	Summar	y / Le	Easte Centr	e Collect	2 / Level 3 / Level 4 ion Time Zone Pacific Other
Relinghished By (Signed) Date Time												Sam	ole Shir	ping a	nd Del	Mour livery [ntain	
the valdage	Received by (signed	2EN	i	ime			GEL I		Erin	Trent				<u> </u>			octails .	
July 1/21/09 090	o stor	AGE	1/21	69	<u> </u>	O	dethod	of Ship	ment:	FED	EX			Date	Shippe	ed:		
	2				······································	- 1	Airbill #								рр			
Chain of Custody Number = Client Determined	3						Airbill#	:										
QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Ec Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was fiel Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, Water	uipment Blank, MS= Mat d filtered or N - for sample	rix Spike Sample was not field fi	e, MSD= ! ltered.	Matrix Spike	Duplicate S	ample,	G= Grat	o, C ≃ Co	omposite	:							Fo	r Lab Receiving Use Only
) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surface Water, WM) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/74) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydr WHITE = LABO	oxide, SA= Sulfuric Acid.	AA= Ascorbic A	cid, HX=	, SD=Sedime 8260B- 3, 60, Hexane, ST W = FILI	= Sodium T	ige, SS - 1). Thiosulf	ate, If no	preserv	=Oil, F= vative is = CLI]	added =	Wipe, U	≖Urine, i Id blank	F=Fecal, N	i–Nasal				Custody Seal Intact? YES NO Cooler Temp: C

Project #: Entergy Ground Water Monitoring Prog GEL Quote #: COC Number (1):		G	יבע	Chain (**See ww	DI Ci /w.gel.c	ustod om for (ly an GEL's S	l d A ampl	Ana e Acc	lyti	cal	Re	que	st			L Laboi 40 Savaj	ratories, L ge Road	LC
PO Number: 50013510 GI	EL Work	Orde	r Nun	iher:	_		+9 .S.			cptan	ie sc)F··				Ch	arleston	SC 2940	
Client Name: Entergy																		3) 556-81 766-1178	
				Phone #:	(914) 7	736-840	5	l			Samp	le Ana	lysis F	eaues	ted ⁽⁵⁾	(Fill in t	ho nom	/60-11/8	ontainers for each test)
Project/Site Name: Indian Point Energy Center				Fax #:	(914) 7	34-6247	,	Ĩ	ق ع		T			1-00	T	(1 111 111 (ber of co	
Address: 450 Broadway, Suite 3, Bucha	anan, NY	10511		· · · · · · · · · · · · · · · · · · ·				Pinog	sample be considered:	1 2	-	<u></u>	<u></u>						< Preservative Type (6
Collected by: Migwel Britos Sen	nd Results	To: Pa	trick D	onahue		₹ ⁶		 		Total number of containers	<u> </u>	Gamma Spec (GS)	Strontium 90 (Sr90)	(Ni63)					Comments
U		*Date C	ollected	*Time	Т	T	T	ي ا	ulate	ber of	H	Sp	ш Э	63 (1					Note: extra sample is
Sample ID * For composites - indicate start and stop date/time		(mm-d		Collected (Military) (hhmm)	QC Code	Filtered (2)	Sample Matrix (4)	Radioactive	TSCA Regulated	al num	Tritium (H3)	mma	ontiu	Nickel 6					required for sample spec
MW-40-27-(006)		119	09	 	N	N	CW			F	Ţ	ß	Str	ž					
MW-40-46-(007)	i	1	09			N	GW	Y	Y	1	1	1	1	1					2 Liter Poly
MW-40-81-(007)	1	/19	-	1038		 	GW	Y	Y	1	1	1	1	1					2 Liter Poly
MW-40-100-(009)		77	/09		N	N	GW	Y	Y	1	1	1	1	1					2 Liter Poly
MW-40-127-(009)	1	"	09			N	GW	Y	Y	1	1	1	1	1					2 Liter Poly
MW-40-162-(007)			09			N	GW	Y	Y	1	1	1	1	1					2 Liter Poly
		/ ' '/	<u> </u>	114/	N	N	GW	Y	Y	1	1	1	1	1					2 Liter Poly
												_		_					
											\dashv								
TAT Requested: Normal: Rush: Specify				<u> </u>				l			$\perp \perp$								
emarks: Are there any known hazards applicable	to these s	ample.	Surcharge S.? If Se	e) Fax Resu	ilts:	Yes	/ (No	\geq	(Circle)	Deliver	ıble: C	of A	QC S	ummary	/ Leve	ell / [e	evel 2 / Level 3 / Level 4
		•		, , , , , , , , , , , , , , , , , , , ,	· ·ne nu	izurus											S	ample Co	Ilection Time Zone
Chain of	Control 0																	Eastern Central	Pacific Other
Relinguished By (Signed) Date Time		ignatui eceived b		1,										Samnl	e Shin	ning on	d Duli	Mountain ery Deta	
1110 180 1210	15	ÆCL	OF	<i>b</i>	Tir 				GEL P	M:	Erin '	Trent		рт	c omp	mig and	u Deliv	ery Deta	ils
12/09 0°	4011 2	500	RAG	SE 1/2	21/09	<u> </u>	090	1	/lethod	of Shinr	nent:	FEDE	v			T			
	2							- 1	irbill #:			TEDE				Date S	Shipped:		
Chain of Custody Number = Client Determined	3											··· <u>··</u>							
QC Codes: N= Normal Sample TR = Trip Plant, FD F: 11 P.	B = Equipmen	t Blank, 1	MS≈ Man	rix Spike Sampla	MCD- 14			121	uom #,										
a or riquid matrices, indicate with a Y - for yes the sample v	was field filtere								G≒ Grab,	C≖ Cot	nposite								For Lab Receiving Use Only
	r WW-War-		=18/aton 1																
Sample Analysis Requested Analysisal most and a sample Analysis Requested Analysisal most and a sample Analysis Requested Analysisal most and a sample Analysis Requested Analysis at the sample Analysis Requested Analysis at the sample Analysis Requested Analysis at the sample Analysis Requested Analysis at the sample Analysis Requested Analysis Reputation Analysis Requested Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputation Analysis Reputati	er, ww≔waste	Water, W number of	f containe	VIL=Misc Liquid ors provided for a	,SO=Soil,S ach (ie .e.a	SD=Sedimen	it, SL≖Sludi	ge, SS=1	Solid Wa	iste, O=()il, F ≃F	ilter, P=V	/ipe, U=t	rine, P=	Fecal. N=	Nasai		-	Custody Seal Intact?
Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surface Water Gample Analysis Requested Analytical method requested (i.e. 8260B, 6010 Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium WHITE = LA	er, ww≔waste	Water, W number of A≕ Sulfur	f containe ic Acid,	AA≈ Ascorbic A	cid, HX ≖ F	SD=Sedimen 260B- 3, 6010 Hexane, ST = / = FILE	Sodium Ti	ge, SS=! 1). hiosulf=	Solid Wa	iste, O=()il, F≃F	ilter, P=V	/ipe, U=t	rine, P=	Fecal, N≕	Nasai			Custody Seal Intact? YES NO Cooler Temp:

PAGE 1 of 2

4-2004)	U.S	. NUCLEAR REGULA	TORY COMMISSION		TORY	USE ONL	Y
	REQUEST FOR A	NAI YSIS AND		CONTROL NUMBER	****		······································
	CHAIN OF C						
SAMPLE LOCATION (LICEN				LICENSEE NUMBI	:p	504:	
INDIAN POIN	T ENERGY CENTER			LICENSEE NUMBI	R	DOCKET	NO.
# TOTAL	SAMPLE SUB						
# TOTAL	TYPE	VOLUME	WEIGHT	DATE SAMPLES SUBM	TTED	PRIORIT	
1	GROUND WATER	2000 ML	~ 2 Kg			ROUT URGE	
				SAMPLE CO	LLECTIC	ON INTERVAL	
				MONTH	DAY	YEAR	TIME
				START			
SPECTOR RESPONSIBLE			TELEPHONE NUMBER	1	 	+	
	Jim Noggle (USNRC)		(610) 337-5063	STOP			l
ANALYSIS	TO BE PERFORMED	LIST DESIRED LLD (Optional)	OTHER TYPE	OF ANALYSIS (Specify)		LIST DES	
GROSS ALF	PHA (GA)			UM-90 (Sr90)		LED (Opt	Oliai)
GROSS BE1	「A (GB)		X NICKEL-6	3 (Ni63)			
X GAMMA SPE	EC (GS)						
X TRITIUM (H3	3)						
CARBON-14	(C14)						
IODINE-125	(1125)						
RELENQUISHED B	Y RECEIVED BY	DATE	TIME	REASON FOR CHA	NG E OF	CUSTODY	
waged A	De flut	01/27/09	1710 Ve	uty correct	Sa	mples	
Huth	Huggel & Ba	1/27/09	1710 Rel				
myul A	SECURED STORAGE	01/27/09	1710 Sec	enguisher it		C 9 0 C 7	7164)
Lugar VIII	7 STORAGE	1,2,10,1	1770	361	age.	. *	
						······································	
	E NO X YES	L.	TAC NUMBER				
FEE RECOVERABL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		TAC NUMBER				

PAGE 2 of 2

	NRC FORM 303	II S NIICI FAD DECU	LATORY	PAGE 2 of 2
	(4-2004)	U.S. NUCLEAR REGU	LATORY COMMISSION	LABORATORY USE ONLY CONTROL NUMBER
i		SAMPLE RECORD - Continued		SONTHOE NOMBER
	LAB	ORATORY:		
	SAMPLE NUMBER	SAMPLE NAME AND DESCRIPTION	COLLECTION DATE/TIME	REMARKS, PRESERVATIVE ANALYSIS REQUESTED, ETC.
	MW-67-39-(008)	Ground Water Split Sample of MW-67-39-(008)	1615	Sample is unfiltered & unpreserved. Analyze Gamma Spec, H3, Sr90, Ni63
	MW-67-105-(007)	Ground Water Split Sample of MW-67-105-(007)	1645	Sample is unfiltered & unpreserved. Analyze Gamma Spec, H3, Sr90, Ni63
	MW-67-173-(007)	Ground Water Split Sample of MW-67-173-(007)	163,3	Sample is unfiltered & unpreserved. Analyze Gamma Spec, H3, Sr90, Ni63
-	MW-67-219-(007)	Ground Water Split Sample of MW-67-219-(007)	01/27/09	Sample is unfiltered & unpreserved. Analyze Gamma Spec, H3, Sr90, Ni63
	MW-67-276-(007)	Ground Water Split Sample of MW-67-276-(007)	1301	Sample is unfiltered & unpreserved. Analyze Gamma Spec, H3, Sr90, Ni63
	MW-67-323-(007)	Ground Water Split Sample of MW-67-323-(007)	1350	Sample is unfiltered & unpreserved. Analyze Gamma Spec, H3, Sr90, Ni63
	MW-67-340-(007)	Ground Water Split Sample of MW-67-340-(007)	01/27/09	Sample is unfiltered & unpreserved. Analyze t Gamma Spec, H3, Sr90, Ni63
			,=,,	Gamma Opec, 110, 0190, 1405
	* From	1320 to 1340 the	se comples	+10
ſ	12.1 1100		se samples	were hot observed
ŀ	27 1010	•		
ŀ				
Ī				
_				

PAGE 1 of 2

NRC FORM 303 (4-2004)	U.S	. NUCLEAR REGULA	TORY COMMISSI	ON LA	BORATOR	Y USE ONLY
·	REQUEST FOR A	NALYSIS AND)	CONTROL	NUMBER	
	CHAIN OF C		•			
	LABORATORY:					
SAMPLE LOCATION (LICE)	NSEE)			LICENO		
INDIAN POIN	T ENERGY CENTER			LICENSI	EE NUMBER	DOCKET NO.
	SAMPLE SUB	MITTED				
# TOTAL	TYPE	VOLUME	WEIGHT	DATE SAMP	LES SUBMITTED	PRIORITY
1	GROUND WATER	2000 ML	~ 2 Kg			ROUTINE URGENT
				SA	MPLE COLLECT	ION INTERVAL
					MONTH DA	Y YEAR TIME
				START		
SPECTOR RESPONSIBLE			TELEPHONE NUMB	ER		
	Jim Noggle (USNRC)		(610) 337-50	063 STOP		
ANALYSIS	S TO BE PERFORMED	LIST DESIRED LLD (Optional)	OTHER			LIST DESIRED
GROSS ALF]	TYPE OF ANALYSIS	(Specify)	LLD (Optional)
LJ GROSS ALF	TIA (GA)		X STRO	NTIUM-90 (Sr90)		
GROSS BET	TA (GB)		X NICKE	EL-63 (Ni63)		
X GAMMA SPI	EC (GS)					
X TRITIUM (H:	3)					
CARBON-14	(C14)					
IODINE-125	(1125)					
RELENQUISHED B	Y RECEIVED BY	DATE	TIME	REASON F	OR CHANGE C	F CUSTODY
ware A	De fate	01/27/09	1710	Verify co	ruct so	u ples
Huat	Staget & Bu	1/27/09	1710 1			
Juiguel A	SECURED STORAGE	01/27/09	1710 5	ecured !	Stora	VLPGVERIJAL 2 -
						
FEE RECOVERABL	E NO X YES		TAC NUMBER			
IARKS:						

PAGE 2 of 2

NRC FORM 303 U.S. NUCLEAR REGULATORY COMMISSION LABORATORY USE ONLY (4-2004) CONTROL NUMBER SAMPLE RECORD - Continued LABORATORY: SAMPLE SAMPLE NAME COLLECTION REMARKS, PRESERVATIVE NUMBER AND DESCRIPTION ANALYSIS REQUESTED, ETC. DATE/TIME 01/27/09 MW-67-39-(008) Ground Water Split Sample of MW-67-39-(008) Sample is unfiltered & unpreserved. Analyze for Gamma Spec, H3, Sr90, Ni63 01127109 Ground Water Split Sample of MW-67-105-(007) MW-67-105-(007) Sample is unfiltered & unpreserved. Analyze for 645 Gamma Spec, H3, Sr90, Ni63 JU27/09 MW-67-173-(007) Sample is unfiltered & unpreserved. Analyze for Ground Water Split Sample of MW-67-173-(007) 1633 Gamma Spec, H3, Sr90, Ni63 MW-67-219-(007) Ground Water Split Sample of MW-67-219-(007) Sample is unfiltered & unpreserved. Analyze for Gamma Spec, H3, Sr90, Ni63 MW-67-276-(007) Ground Water Split Sample of MW-67-276-(007) Sample is unfiltered & unpreserved. Analyze for Gamma Spec, H3, Sr90, Ni63 MW-67-323-(007) Ground Water Split Sample of MW-67-323-(007) Sample is unfiltered & unpreserved. Analyze for Gamma Spec, H3, Sr90, Ni63 MW-67-340-(007) Ground Water Split Sample of MW-67-340-(007) Sample is unfiltered & unpreserved. Analyze for Gamma Spec, H3, Sr90, Ni63 From 1320 to 1340 these samples

NRC FORM 303 (4-2004)		NUCLEAR REGULA		ON LA		Y USE ONLY
	REQUEST FOR AN			j		
	CHAIN OF CU	JSTODY		İ		
	LABORATORY:		·····			
AMPLE LOCATION (LICE	NSEE) IT ENERGY CENTER			LICENS	EE NUMBER	DOCKET NO.
WONTH ON	SAMPLE SUBA	AITTED				
# TOTAL	TYPE	VOLUME	WEIGHT	DATE SAME	PLES SUBMITTED	PRIORITY
1	GROUND WATER	2000 ML	~ 2 Kg	0.020	ELG GODWITTED	ROUTINE
				SA	AMPLE COLLEC	TION INTERVAL
			_		MONTH D	AY YEAR TIME
				START		
SPECTOR RESPONSIBL			TELEPHONE NUME	STOP		
	Jim Noggle (USNRC)		(610) 337-5	063		
ANALYSI	IS TO BE PERFORMED	LIST DESIRED LLD (Optional)	OTHER	TYPE OF ANALYSIS	S (Specify)	LIST DESIRED LLD (Optional)
GROSS AL	PHA (GA)			ONTIUM-90 (Sr90)		
GROSS BE	TA (GB)		X NICK	EL-63 (Ni63)		
X GAMMA SP	PEC (GS)				-	
X TRITIUM (H	13)					
CARBON-1	4 (C14)					
IODINE-125	5 (I125)					
RELENQUISHED E	RECEIVED BY	DATE	TIME	REASON F	OR CHANGE	OF CUSTODY
weil ?	Be full "	1/27/09	1704	Verify a	orrect.	Samples
That	Theory of gr	1/27/09	1704	Relenguis	Shep Obs	COLVEDQUEN BE
Trusuel A	STORAGE	1/27/09	1704	secured	50014	se <i>rvergveri fi e</i> IGE
					-	
FEE RECOVERAB	BLE NO X YES		TAC NUMBER			

PAGE 2 of 2

	(4-2004)	U.S. NUCLEAR REGULAT	ORY COMMISSION	LABORATORY USE ONLY
	(- 2023)	SAMPLE RECORD - Continued		CONTROL NUMBER
	LAR	ORATORY:		
	SAMPLE			
	NUMBER	SAMPLE NAME AND DESCRIPTION	COLLECTION DATE/TIME	REMARKS, PRESERVATIVE ANALYSIS REQUESTED, ETC.
*	MW-66-21-(007)	Ground Water Split Sample of MW-66-21-(007)	1359	Sample is unfiltered & unpreserved. Analyze Gamma Spec, H3, Sr90, Ni63
	MW-66-36-(007)	Ground Water Split Sample of MW-66-36-(007)	01/27/09	Sample is unfiltered & unpreserved. Analyze of Gamma Spec, H3, Sr90, Ni63
*				
	* - From	1320 to 1340 sauch	collection	, was not observed
	24	1320 to 1340 sample		aus us i e server
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Page: 1 of 1 Project #: Entergy GW Mon Prog GEL Quote #: COC Number (1): PO Number: 50013510	GEL (L Work Order Num	**See ww	of Ci w.gel.c	ustod om for C	y an GEL's Sa	d A	Acce	lyti	cal ce SO	Re	que	est		2	2040 Sa Charlest	boratorie vage Roa on, SC 2	ad 19407	
Client Name: Entergy		Phone #:	(914)	736-840	15	1			~]1	Fax: (84	3) 766-1	178	
Project/Site Name: Indian Point Energy Center						-	<u></u>	T	Samp	le Ana	lysis l	Reque	sted (5)	(Fill i	n the n	umber o	of conta	niners for each test)
Address: 450 Broadway, Suite 3, Bucl	22020 NV 10511	Fax #:	(914	734-62	247	ould this	sample be considered:	,				-						< Preservative Type (6)
Colleges 11						ę.	# 5 T	ntaine		(GS)	(Sr9((3)						
Collected by: MBINA Send	Results To: Patrick [1	-				ated	r of co	H3)	Spec	90 ر	E						Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)						required for sample specific
MW-54-37-(008)	02108 US		N	N	GW	Y		1		9	Š	Z			_		-	
MW-54-58-(008)	0210309		N				Y	<u> </u>	1		1	$\frac{1}{1}$		\dashv				2 Liter Poly
MW-54-123-(008)	0>103/09		1	N	GW	Y	Y	1	1	1	1	1		_				2 Liter Poly
MW-54-144-(008)	S/03/04	1155	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
MW-54-173-(008)		1241	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
MW-54-190-(008)	02/03/09		N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
	00/09/07	1235	N	N	GW	Y	Y	1	1	1	1	1		_	_			2 Liter Poly
														+		_		
·														_	_			
										\dashv								
TAT Requested: Normal: ✓ Rush: Specify:	(Subject to Surcharge	Fax Resi	.14			$= \downarrow$	\dashv											
emarks: Are there any known hazards applicable	to these samples? If	so, please l	ist the	hazards		No	_ ر		Circle	Deliver.	rable;	C of A	/ QC	Summ	ary / 1	Level 1 Sampl Easte	<u>le Colle</u> ern	el 2 / Level 3 / Level 4 ection Time Zone Pacific
Relinquished By (Signed) Date Time	ustody Signatures														· · · · · · · · · · · · · · · · · · ·	Mou	intain	Other
Tang	Received by (signed	i) Date	T	ime			OPT F	<u> </u>	T			Sam	ple Shi	pping	and D	elivery l	Details	
again 3/3/09 155	2 1 260	age H	3/65	155	7	Γ	GEL F			Trent								
	2	4	<u></u>				Method		ment:	FED	EX			Da	te Ship	ped:		
Chain of Custody Number = Client Determined	3				· · · · · · · · · · · · · · · · · · ·		Airbill # Airbill #											
QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB Field Filtered For liquid matrices indicate with a V. Second of the Property of the Proper	s = Equipment Blank, MS= Mat as field filtered oF N - for sample	rix Spike Sampl	e, MSD= N	Matrix Spike	Duplicate S	amole	G= Grah	C= C	omposite	 :				· · · · · · · · · · · · · · · · · · ·			F	For Lab Receiving Use Only
Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface Water Sample Analysis Requested. Analytical method requested (i.e. 8260B, 6010 Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium WHITE = LA	, WW=Waste Water, W=Water,)B/7470 Aand number of contain Hydroxide, SA= Sulfuric Acid,	ML≃Misc Liqui	d, SO=Soil	, SD=Sedime	nt, SL=Sluc	ige, SS=	Solid W	aste, O	•Oil, F =1	Filter. P ≕	Wipe, U	⊫Urine,	F=Fecal, l	V=Nasal		}		Custody Seal Intact? YES NO Cooler Temp:

000,0010	GEL Cl * GEL Work Order Numbe	*See www	f Cu	istod om for G	y and GEL's Sa	d A	na Acce	lyti	cal ce SO	Rec	que	st			2040 Charl Phone	Savage leston, S e: (843)	tories, I Road SC 2946) 556-8	107 3171	
Client Name: Entergy		Phone #:	(914)	736-840)5				Samp	le Ana	lysis R	eques	ted ⁽⁵⁾						ers for each test)
Project/Site Name: Indian Point Energy Cente	er j	Fax #:	(914	734-6	247	this	e be										T		< Preservative Type (6)
Address: 450 Broadway, Suite 3, B	uchanan, NY 10511					Shoule	sample be considered:	tainers		(SS	160						+	_	J1 ()
Collected by: AA MB	end Results To: Patrick Do	nahue					2	of con	13)	Spec (GS)	s) 06								Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number	Tritium (H3)	Gamma S _l	Strontium 90 (Sr90							r	required for sample specific
MW-58-26-(007)	02/03/09	1249	N	N	GW	Y	Y	1	1	1	1								2 Liter Poly
MW-58-65-(007)	02 03 09	1205	N	N	GW	Y	Y	1	1	1	1								2 Liter Poly
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																	\perp		
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TAT Requested: Normal: ✓ Rush: Spec	cify: (Subject to Surcharge)	Fax Resu	olts:	Yes		No			L		l	l							
Remarks: Are there any known hazards applica	ble to these samples? If so	, please l	ist the	hazards		NO		<u> </u>	Circle	Delive	rable: (C of A	/ QC	Sumr	nary	/ Leve	ample	Level 2 Collecti	2 / Level 3 / Level 4 ion Time Zone
Chain	of Custody Signatures																Eastern Central Mounta	n) F	Pacific Other
Help(quished By (Signed) / Date Time	Received by (signed)	Date	т	ime								Sam	ple Sh	ippin	g and	Deliv	ery De	etails	
dus 1 1 02/03/09	SECURED ISTORAGE	F 20	أما	~ ~	1555		GEL :	PM:	Erin	Trent									
	2	L 02	1031	<u> </u>	.,,,			l of Ship	pment:	FEL	EX			1	Date S	hipped:			
}	3		· · · · · · · · · · · · · · · · · · ·				Airbill												
 Chain of Custody Number = Client Determined QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicat Field Filtered For liquid matrices, indicate with a Y - for yes the sample, Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface V Sample Analysis Requested Analytical method requested (i.e. 8260B. 	Water. WW=Waste Water W=Water M	was not field fi	itered.	05.0 "		Sample,	Airbill : G≃ Gra	ab, C = C	omposii	ie .									r Lab Receiving Use Only Custody Seal Intact?
1.) Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= So	, 6010B/7470Aand number of container dium Hydroxide, SA= Sulfuric Acid, A = LABORATORY	A≈ Ascorbic A	cach (I.e. a	8260B-3, 60 Hexane, ST W = FIL	/10Β//4/0A Γ = Sodium '	- 1). Thiosul	fate, If r	no preser	rvative i	=Filter, P s added = IFNT	≕Wipe, E eleave fie	=Urine, ld blank	F≔Fecal,	N=Nasa	al				YES NO Cooler Temp: C

	GEL Cha **S CL Work Order Number:	in of	Cu	stod om for G	y and EL's Sa	d A	Ana Acce	lytic	cal e SO	Rec	que	st		2 C P	040 Sa Tharles hone:	iborator ivage R ton, SC (843) 5	oad 29407 56-817	
Client Name: Entergy		one #: (9	14) 7	36-840	5			S	ampi	e Ana	lvsis F	eanes	ed ⁽⁵⁾	(Fill is	ax: (84	43) 766	-1178	ntainers for each test)
Project/Site Name: Indian Point Energy Center	Fax	: #:	(914)	734-62	247	<u>:</u>	х ё					1	T	(1 III II	Tuici	umber	or con	
Address: 450 Broadway, Suite 3, Bud	chanan, NY 10511			····		Should t	sample be considered:	ners		S)	-06		-		+		-	< Preservative Type (6)
Collected by: AA/MB Sen	d Results To: Patrick Dona	hue					Т	f containers	3)	ec (G	90 (Sr							Comments
Sample ID • For composites - indicate start and stop date/time	(mm-dd-yy) (M	*Time ollected Q lilitary) nhmm)	C Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number o	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90							Note: extra sample is required for sample specific QC
MW-44-66-(011)	02/03/09 0	940	N	N	GW	Y	Y	1	1	1	1							2 Liter Poly
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TAT Requested: Normal: ✓ Rush: Specify	/: (Subject to Surcharge) F	ax Results		Vas											\perp			
Remarks: Are there any known hazards applicable	e to these samples? If so, p	lease list	the h	azards		No			Circle	Delive	rable: (of A	/ QC	Summa	ту /	Level 1	/ Le	evel 2 / Level 3 / Level 4 llection Time Zone
																Ea Ce	ntral	Pacific Other
Relinquished By (Signed) Date Time	Custody Signatures Received by (signed)	Date	т:									Samp	le Shi	pping	and D	eliver:	ountain V Deta	ils
Turnol A 124 02/03/04 15	SECURED	i	Tin				GEL F		Erin	Trent							<u></u>	
	SS I STORAGE	02	031	<u> </u>	122	5	Method	of Shipn	nent:	FED	EX		-	Da	te Ship	ped:		
	3						Airbill #	!:								-		
) Chain of Custody Number = Client Determined) QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, E) Field Filtered For liquid matrices, indicate with a Y - for yes the sample of Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface Water) Sample Analysis Requested Analytical method requested (i.e. 8260B, 60)) Preservative Type HA= Hydrochloric Acid, N1= Nitric Acid, GH= Sediment	er, WW=Waste Water, W=Water, ML=M	lisc Liquid, S	ea. 6 0 =Soil, :	SD=Sedimer	nt, SL =Slud	ample,	=Solid W	o, C = Con	Oil, F=I	Filter, P =	≡Wipe, U	-Urine, F	=Fecal, I	V=Nasal				For Lab Receiving Use Only Custody Seal Intact?
) Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodiur	n Hydroxide, SA= Sulfuric Acid, AA= A ABORATORY	vided for each Ascorbic Acid YEL	26//4/0/4 - = Sodium Th	1). hiosult	ate, If no	o preserva INK =	atíve is	added =	leave fie	d blank	,-					YES NO Cooler Temp: C		

Page: 1 of 1 Project #: Entergy GW Mon Prog GEL Quote #: COC Number (1); PO Number: 50013510	GEL C	· · See ww	of Cu	ustod om for C	y and	d A	na Acce	lyti	cal ce SO	Re	que	est		204 Ch	L Labo 40 Sava arleston one: (84	ge Road , SC 29	id 9407	
Client Name: Entergy		Phone #:	(914)	726 940		Г—	······································		-			····		Fax	c: (843)	766-11	178	
Project/Site Name: Indian Point Energy Ce	nter					<u> </u>		1 - 5	Samp	le Ana	lysis l	Reque	sted (5)	Fill in t	the nun	nber of	f contai	ners for each test)
Address: 450 Broadway, Suite 3		Fax #:	(914	734-62	247	uld this	sample be considered:											< Preservative Type (6)
C. 11 4 11 A		· · · · · · · · · · · · · · · · · · ·				Sho	S S	number of containers		(GS)	(Sr90							
Collected by: AAMB	Send Results To: Patrick D	,	_				ated	00 20	H3)	pec	1 90							Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/tin	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)							required for sample specif
MW-44-102-(012)	02/02/09	120%	N	N	GW	Y Y	Y	ř	1	· B	<u>~</u>			_		ļ		
	, , , , , ,		1,		OW.		Y	1	1	1	1				-			2 Liter Poly
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TAT Requested: Normal: ✓ Rush: S	nacif																	
Remarks: Are there any known hazards appli	pecify: (Subject to Surcharge cable to these samples? If s	Fax Resi	ilts:	Yes	/ (No	$\geq \perp$	(Circle	Delive	able:	C of A	/ QC s	ummary	/ Le	vel l /	/ Level	2 / Level 3 / Level 4
Chai	n of Custody Signatures	o, pieuse i	isi ine i	nazaras					····	·						Easter Centra Moun	e Collect rn ral	tion Time Zone Pacific Other
Relinquished By (Signed) Date Time	Received by (signed) Date	Ti	me		\dashv						Sam	ple Ship	ping ar	ıd Deli	very D	etails	
Cylo (10)	1830 1 Secure	77	2/49	/ 0	ž) .	ľ	GEL P	M:	Erin	Trent								
<i>b</i>	1830 1 Strang	, -1	2/09	. 8	<u>30</u>	<u>N</u>	lethod (of Shipr	ment:	FED	EX			Date	Shipped	i:		
Chair of Court N	3			·		A	irbill#:											
Chain of Custody Number = Client Determined QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Dupl Field Filtered For liquid matrices, indicate with a Y - for yes the s Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surfac Sample Analysis Requested Analytical method requested (i.e. 826) Preservative Type Ha= Hudrophysics Acid Nt.	10 U/ 12/12/ 227	was not nera n	itelea.			mple, (irbill#: G= Grab, Solid We	C= C=	mposite	;					·····		F6	or Lab Receiving Use Only Custody Seal Intact?
Tydrochione Acid, NI = Nitric Acid, SH=	OB, 6010B/7470)Aand number of container Sodium Hydroxide, SA= Sulfuric Acid, A E = LABORATORY	A= Ascorbic A	cid, HX=	260B- 3, 601 Hexane, ST = V = FILE	Sodium Ti	i). iosulfa	ite, If no	preserv: NK=	ative is	added =	Wipe, U	=Urine, ld blank	F≃Fecal, N	Nasal				YES NO Cooler Temp: C

Page: 1 of 1 Project #: Entergy GW Mon Prog GEL Quote #: COC Number: 50013510	GEL Wor	GEL C	**See ww	of Cu	ustod om for (y and GEL's Sa	d A	Anal Acce	lytic	cal e SO	Rec	que	st		20 C	040 Sav harlesto	ooratori vage Ro on, SC 2	29407	
Client Name: Entergy			Phone #:	(914)	736-840)5	Ι –			·				- (5)	F	ax: (843	3) 766-	1178	
Project/Site Name: Indian Point Energy Cer	nter		Fax #:) 734-6		<u> </u>		8	ampi	e Ana	lysis F	Reques	ted (5)	(Fill in	the nu	ımber o	of conta	ainers for each test)
Address: 450 Broadway, Suite 3,		NY 10511	1 u	(014	7 7 34-0.	241	ould thi	sample be considered:	2			0			_				< Preservative Type (6)
Colleged by AA		s To: Patrick D	onahuo.				ıs	1	containers		c (GS	(Sr9							Comments
Sample ID * For composites - indicate start and stop date/time		*Date Collected (mm-dd-yy)	*Time Collected (Military)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Fotal number of	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90							Note: extra sample is required for sample specific
MW-45-42-(015)		02/67/69	(hhmm)	N	N	CW			To	<u> </u>	Ü	-St			_				
MW-45-61-(015)		C7/67/69		1	N	GW	Y	Y	1	1	1	_1							2 Liter Poly
		C.7/65/67		N	N	GW	Y	Y	1	1	1	1							2 Liter Poly
															_		_		
TATP																			
TAT Requested: Normal: ✓ Rush: Sp Remarks: Are there any known hazards applic	ecify:	(Subject to Surcharge)	Fax Resu	ılts:	Yes	/ <	No	>		Circle	Deliver	able: (C of A	/ oc:	Summa	rv / I	evel I	/ Leve	el 2 / Level 3 / Level 4
Chair	n of Custody		o, please l	ist the i	hazards												East Cen Mou	ole Colle tern tral antain	ection Time Zone Pacific Other
Relinquished By (Signed) Date Time		Received by (cionad)	Date	Ti	me								Samp	le Ship	ping 2	nd De	livery	Details	S
California 2/2/09	18301	Sec Sta	ت ممید	2121	19 1	E) .	-	GEL P			Trent								
2 0	2		7	· - L	4 (150		Method	of Shipn	nent:	FED	EX			Dat	Shipp	ed:		
	3		· · · · · · · · · · · · · · · · · · ·				- /	Airbill #	:								· · · · · · · · · · · · · · · · · · ·	-144	
) Chain of Custody Number = Client Determined) QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplic) Field Filtered For liquid matrices, indicate with a Y - for yes the sa) Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface	a Water Mine Mr.	Tor sample	was not neig it	iterea.			mple,	Airbill#:	C≅ Cor	mposite	:							F	For Lab Receiving Use Only
 Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface Sample Analysis Requested Analytical method requested (i e 8260 Preservative Type. HA= Hydrochloric Acid, NI = Nitric Acid, SH= 8 	B, 6010B/7470A	and number of container	E-misc Liquid s provided for a	1, SO=Soil, each (i.e. 8	SD =Sedime 260B- 3, 601	nt, SL=Slud 0B/7470A -	ge, SS= 1).	Solid W	aste, O=(Oil, F ≂l	Filter, P =	Wipe, U	Urine, F	≃Fecal, N	=Nasal				Custody Seal Intact? YES NO
	Sodium Hydroxid = LABOR	c, sa- Suituric Acid, A	A= Ascorbic A	cid, HX=	Hexane, ST V = FILE	= Sodium Ti	hiosulf	ate, If no	preserva NK =	ative is CLII	added = 1 ENT	leave fiel	d blank						Cooler Temp: C

Page: 1 of 1 Project #: Entergy GW Mon Prog	GEL C	hain c	of Cu	istad	V and	d A	no	14:	aal					1	GEL I	Laborate	oriac I	ıc	
GEL Quote #:	JEE C	**See ww	w.gel.c	om for G	у а ці Бі 's Sa	\mathbf{u}_{mnl}		lyti	cai	Ke	que	st				Savage		.LC	
COC Number (1);	1		gei.e.	JIII 101 (ill s sa	mpie	Acce	eptano	ce SO)P**				ŀ	Charle	eston, S	C 2940		
PO Number: 50013510	GEL Work Order Numb	er:														e: (843)			
Client Name: Entergy		Phone #:	(914)	736-840	5				Samp	le Ana	ilvsis R	eanes	ted ⁽⁵⁾	(Eill)	Fax: ((843) 76	6-1178	ontainers for each	
Project/Site Name: Indian Point Energy Cen	iter	Fax #:	(914) 734-62	247	- 2	e i i	Τ	T		, , , ,	T T		(1111)	iii tile	numbe	27 01 00		
Address: 450 Broadway, Suite 3,	Buchanan, NY 10511		<u> </u>	,		hould th	sample be considered:	E		<u>@</u>	0					$\vdash \downarrow$		< Preser	vative Type (6)
Collected	Send Results To: Patrick D	onahue				L.		containers		Spec (GS)	0 (Sr							Cor	nments
		*Time	T	Т		ا ا	ulated	9	(H3	Spe) 6							Note: ex	tra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number	Tritium (H3)	Gamma	Strontium 90 (Sr90)								sample specific QC
MW-44-102-(012)	PUKUHO	1206	N	N	GW		1	1	1	1	S				_		\dashv		
MW-44-66-(011)	19102/20/29		N			Y	Y			1	1				_		\perp	2 Lit	ter Poly
	7)50707		IN	N	GW	Y	Y		1	1	1							2 Lit	ter Poly
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TAT Proposed N																1			
TAT Requested: Normal: ✓ Rush: Sp. Remarks: Are there any known hazards applications.	ecify: (Subject to Surcharge) Fax Resi	ults:	Yes	_/ <	No	≥ 1		Circle	Delive	rable: (C of A	/ QC	Summ	narv /	/ Level	1 / 1	Level 2 / Level 3	/ Lovel 4
	uote to triese samples: 17 s	so, piease i	list the l	hazards											-	Sa E	mple C astern	Collection Time Zone Description Pacific	
Chain	of Custody Signatures															l N	Central Mountai	Other	
Reinquished By (Signed) Date Time	Received by (signed	l) Date	Ti	me					·			Sam	ole Shi	pping	and	Delive	ry Dei	ails	
12/15	1832 1820 0	Stive	1 7	12110	s 10°	ا د ا	GEL I	PM:	Erin	Trent									
2	2	7000	V 1	276	((3.	39	Method	of Ship	ment:	FED	EX			D:	ate Sh	nipped:			
	2				<u> </u>		Airbill #												
) Chain of Custody Number = Client Determined	[3				·		Airbill#	<i>†</i> :											
 OC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplic Field Filtered For liquid matrices, indicate with a Y - for yes the sample. Matrix Codes DW=Drinking Water, GW=Ctroundwater SUS=Sus-Sus-Sus-Sus-Sus-Sus-Sus-Sus-Sus-Sus-	cate, EB = Equipment Blank, MS= Man	rix Spike Sampl was not field fi	le, MSD= N iltered.	fatrix Spike	Duplicate Sa	ample,	G= Grat	b, C = C	omposite	e								For Lab Receivin	
 Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface Sample Analysis Requested Analytical method requested (i e 8260) Preservative Type HA= Hydrochloric Acid. N1 = Nitric Acid. Step. 8 	e water, wwwww.waste Water, www.water, l B, 6010B/7470 Nand number of containe	ML=Misc Liquiers provided for	d, SO =Soil, each (i.e. &	SD=Sedime:	nt, SL =Slud	ige, SS	⊧Solid W	Vaste, O	=Oil, F =	Filter, P	≅Wipe, U	=Urine,	F=Fecal,	N=Nasal				Custody Seal YES	Intact? NO
Time zeed, Bir 3	Sodium Hydroxide, SA= Sulfuric Acid, = LABORATORY	AA= Ascorbic A	Acid, HX≈	Hexane, ST V = FILE	= Sodium T	hiosulf	fate, If no	o preser	vative is	added =	leave fie	ld blank						Cooler Te	
	=			· - LILE	•		P.	INK =	≖ CLI	ENT									

	GEL (**See ww	of Cu	Istod om for C	y and GEL's Sa	d A	Ana Acce	lytic	cal e so	Rec	que	st		20- Ch	EL Labo 40 Sava arlestor one: (84	ige Roa 1, SC 2	29407	
Client Name: Entergy		Phone #:	(914) 7	36-8405		Т								Fa	x: (843)	766-1	178	
Project/Site Name: Indian Point Energy Center				34-6247		├.		S:	ampi	e Ana	lysis I	Reques	ted (5)	Fill in	the nur	nber o	of conta	ainers for each test)
Address: 450 Broadway, Suite 3, Buc	chanan, NY 10511		(514) 7			hould thi	sample be considered:	E	-		<u> </u>				_	<u> </u>		< Preservative Type (6)
Collected by	Send Results To: Patrick D	onahue				s	T	of containers	3	SD) 36	0 (Sr5							Comments
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90							Note: extra sample is required for sample specifi QC
MW-30-69-(023)	01/30/0	IIDD	N	N	GW	Y	Y	1			<u> </u>		_		-	-		
MW-30-84-(014)	01306	11111	N	N	GW		1	1	1	1	1				-	<u> </u>	 	2 Liter Poly
	043640	1101	1	11	GW	Y	Y	1	I	1	1		_		-	ļ	 	2 Liter Poly
								-										
									_	_								
														1	1			
														_	+		┝─┤	
TAT Requested: Normal: ✓ Rush: Spec	cify: (Subject to Surcharg	Fax Resu	ılts:	Yes	/ (No	5		ircle	Dalivor	abla: (<u> </u>			ii		
Remarks: Are there any known hazards applicat	ole to these samples? If so	o, please lis	t the ho	ızards					itcle i	Deliver	able: (of A	/_QCS	ummary	/ / Le	Easte Cent	le Collectern ral	el 2 / Level 3 / Level 4 ction Time Zone Pacific Other
Relinquished By (Signed) Date Time	Received by (signe	i) Date	Ti	230		_						Samp	le Ship	ping ar	ıd Deli	very l	ntain Details	
0,0000 13009 13	Secur	?					GEL P	M:	Erin '	Trent								
8 - 1040[1]	7,700	Q 11.	3670°	4121	<u>5</u>		Method	of Shipm	ent:	FEDE	ΞX			Date	Shippe	d·		
	2	0				/	Airbill #	<u> </u>						<u> </u>	PPO			
Chain of Custody Number = Client Determined						A	\irbill #											
QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate Field Filtered For liquid matrices, indicate with a Y - for yes the samp Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Groundwater, SW=Gr	e, EB = Equipment Blank, MS= Mat ble was field filtered or N - for sampl	rix Spike Sample was not field fi	:, MSD= M	latrix Spike l	Duplicate Sa	ample,	G∞ Grab	, C ≖ Com	posite								F	For Lab Receiving Use Only
Sample Analysis Requested: Analytical method requested (i.e. ascar	vater, W=Waste Water, W=Water,	ML=Misc Liquid	, SO=Soil,	SD=Sedimer 260B- 3. 601	nt, SL= Slud, <i>0B/74704</i> -	lge, SS=	Solid W	aste, O=O	il, F=F	ilter, P=1	Wipe, U≕	Urine, F	≖Fecal, N=	Nasal				Custody Seal Intact? YES NO
Try discinione Acid, NI = Nitric Acid, SH= Soc	dium Hydroxide, SA= Sulfuric Acid, ELABORATORY	AA= Ascorbic A	cid, HX=]	Hexane, ST	= Sodium Ti	hiosulf	ate, If no	preservai NK = (tive is a	added = 1	eave fiel	d blank						Cooler Temp: C

Page: 1 of 1	CELC	That	co	, 1	"							······································		Jon				
Project #: Entergy GW Mon Prog	GEL C	nain o	of Ci	istod	ly and	d A	na	lyti	cal	Red	ques	st		- 1		atories,	•	
GEL Quote #: COC Number (1):		**See ww	w.gel.c	om for C	GEL's Sa	ımple	Acce	eptano	ce SO	P**	_					ge Road , SC 294		
PO Number: 50013510 GEL Wo	ork Order Numb	er:														3) 556-8		
Client Name: Entergy			40.4.1			·								Fax	: (843)	766-117	78	
		Phone #:	(914)	736-840)5	<u> </u>		;	Sampi	e Ana	lysis R	equest	ed ⁽⁵⁾ (Fill in t	he num	iber of	contain	ners for each test)
Project/Site Name: Indian Point Energy Center		Fax #:	(914) 734-6	247	d this	sample be considered:											< Preservative Type (6)
Address: 450 Broadway, Suite 3, Buchana	n, NY 10511					Shoul	samp consid	ontainers.		3S)	3r90							
Collected by: ATMB Send Resu	ılts To: Patrick D	onahue					3	of cont	13)	Spec (GS)	s) 06							Comments
Sample ID	*Date Collected	*Time Collected (Military)	QC Code		Sample	Radioactive	TSCA Regulated	number	Tritium (H3)	Gamma S _l	Strontium 90 (Sr90							Note: extra sample is required for sample specific QC
• For composites - indicate start and stop date/time MW-63-112-(008)	(mm-dd-yy)	(hhmm)		Filtered (3)	Matrix (4)	Radi	TSC	Total	Į <u>į</u>	Gan	Stro							QC .
MW-63-121-(008)	01/32/19		N	N	GW	Y	Y	1	1	1	1							2 Liter Poly
14111-03-121-(008)	01/30/09	1441	N	N	GW	Y	Y	1	1	1	1							2 Liter Poly
							<u> </u>	ļ										
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TAT Requested: Normal: ✓ Rush: Specify:	(Subject of Co.)						<u> </u>											
Remarks: Are there any known hazards applicable to th	(Subject to Surcharge	o please	ults: list the	Yes hazards	/ <	No	2		Circle	Delive	rable: (of A	/ QC S	ummary	/ Le	vel l /	Level 2	2 / Level 3 / Level 4
		o, picuse i	··si inc	<i>1144</i> 4143												Sample Easter	Collecti	ion Time Zone Pacific
																Centra	al	Other
Relinquished By (Signed) Date Time												Samn	e Shin	ning ar	rd Deli	Mount very D		
Reinquished By (Signed) Date Time	Received by (signed	d) Date	T	ime			GEL	PM:	Frin	Trent			С	buig at	id Deli	very D	etans	
1300 1510	1 5700	توالا يوب	2 US	121	Ø			of Ship		FED	EV				61.			
	2	9							ринеци,	FEL	EX			Date	Shipped	1:		
	3				-		Airbill											
) Chain of Custody Number = Client Determined) QC Codes N= Normal Sample TR = Trip Plant, ED= Fixt D= V							Airbill											
) QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Eq.) Field Filtered For liquid matrices, indicate with a Y - for yes the sample was field.) Matrix Codes DW=Dripking Water, CNLC	upment Blank, MS= Mar I filtered or N - for samnl	rix Spike Sample was not field f	le, MSD= l	Matrix Spike	Duplicate S	Sample	G≃ Gra	ıb, C≃ C	Composit	e							For	r Lab Receiving Use Only
Drinking Water, GW-Groundwater, SW-Surface Water WW	Wacte Water Wintle			, SD=Sedim	ent, SL=Siu	dge, SS	⊱Solid V	Waste, O)=Oil, F =	Filter, P	≅Wipe, U	=Urine. P	=Fecal №	-Nacal				Custody Seal Intact?
.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/747.) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydro WHITE = I.A RO	WAand number of contain exide, SA= Sulfuric Acid	ers provided for	each (i.e.	8260B- 3, 60)10B/7470A	- 1).			., -	, .		ornic, F	a coai, iv	145di		 -		YES NO Cooler Temp:
WHITE = LABO	= Sodium : E	i niosul	tate, if r P	10 preser	rvative is = CLI	added = ENT	leave fie	ld blank				L		C				

Page: 1 of 1 Project #: Entergy GW Mon Prog GEL Quote #: COC Number (1): PO Number: 50013510 GEL Number (1):	GEL (**See ww	of Cu	Istod om for C	y and GEL's Sa	d A	na e Acce	lytic	cal e SO	Rec	que	est		20 CI Ph)40 Sav harlesto none: (8	age Ro on, SC 2 343) 55	29407 6-8171	
Client Name: Entergy		Phone #:	(914)	736-840	5				amn	lo A	1		(5)	Fa	ıx: (843	766-1	178	
Project/Site Name: Indian Point Energy Center		Fax #:) 734-62		╁			amp	e Ana	llysis	Reque	sted (5)	(Fill in	the nu	mber o	of conta	ainers for each test)
Address: 450 Broadway, Suite 3, Bucha	nan, NY 10511		(014	7 7 3 4 - 02		hould thi	sample be considered:	ers		6	. 0	ļ						< Preservative Type (6)
College	esults To: Patrick D)onahue				-	Т	of containers	(2	(GS	0 (Sr							Comments
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90							Note: extra sample is required for sample specif
MW-42-78-(011)	0130/05	1127	N	N	GW	Y	Y	1	1	1	<u>s</u>				_		+-	2 Liter Poly
																		2 Liter Poly
															-	-	<u> </u>	
									_					_	-	-		
														-	-	-	-	
											*			+-		+		
TAT Requested: Normal: ✓ Rush: Specify:														+	1	 		
Remarks: Are there any known hazards applicable to	(Subject to Surcharge	Fax Resi	ilts:	Yes	/ <	No	$\geq \perp$		Circle	Deliver	able:	C of A	/ QC S	ummar	y / L	evel I	/ Leve	el 2 / Level 3 / Level 4
Chain of Cue	tody Signatures	, preuse e				·····		·								East Cent	ern)	ction Time Zone Pacific Other
Relinquished By (Signed) Date Time	Received by (signed	l) Date	Ti	ne	·			 				Samp	le Ship	ping a	nd De	livery	Details	
0800 134091215	1 securo	Straces			- 1 5	_	GEL P	PM:	Erin	Trent			-					
U	2	310000	_ 13	<u> </u>	7134	- 1			nent:	FED	EX			Date	Shippe	ed:		
Chair of Court N	3	· · · · · · · · · · · · · · · · · · ·			······································		Airbill #											
Chain of Custody Number = Client Determined QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Field Filtered For liquid matrices, indicate with a Y - for yes the sample was f Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, W Sample Analysis Requested Analytical method requested (i.e. 8260B, 6010BT) Preservative Type HA= Hydrochloric Acid, N1 = Nitric Acid, SH= Sodium Matrix	W=Waste Water, W=Water, I	ML=Misc Liquid	iterea. 1, SO=Soil,	SD=Sedimer	nt, SL =Slud	ample,	Solid W	, C = Con	Dil. F≂I	Filter P.::	Wipe, U	=Urine, I	≃Fecal, N	=Nasal			F	or Lab Receiving Use Only Custody Seal Intact? YES NO
) Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hy WHITE = LAB	droxide, SA= Sulfuric Acid.	AA= Ascorbic A	cid, HX= I	Hexane, ST = V = FILE	Sodium Ti	1). hiosulf	ate, If no	preserva INK =	tive is:	added =	leave fie	ld blank						Cooler Temp:

age:1		Chain (**See ww	of C	ustod	ly and GEL's Sa	d A	\na	lyti eptan	ical	Re	que	est		:	2040 Sa	boratorie vage Ros on, SC 2	ad	
O Number: 50013510 'lient Name: Entergy	GEL Work Order Nur	nber:												1	Phone: (843) 556	5-8171	
		Phone #:	(914)	736-840	05				Samp	le Ana	alvsis	Reque	sted ⁽⁵⁾	' (Fill i	Fax: (84	3) 766-1	178	ners for each test)
roject/Site Name: Indian Point Energy Ce	nter	Fax #:	(914	1) 734-6	247	şiğ	ë ë			T	Ť	Ė	Γ		T the h	uniber 6	Contain	
.ddress: 450 Broadway, Suite 3,	Buchanan, NY 10511		· · · · · · · · · · · · · · · · · · ·			Should	sample be considered;	i i	-	18	<u>@</u>	+-					11	< Preservative Type (6)
follected by: APIMB	Send Results To: Patrick	Donahue					Т	containers		(S)	0 (Sr							Comments
Sample ID • For composites - indicate start and stop date tin	*Date Collected	*Time Collected (Military) (hhmm)	QC Code	e Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)							Note: extra sample is required for sample specific QC
MW-63-18-(008)	0129/09	1346	N	N	GW	Y	Y	1	+-		· S	+-						
MW-63-34-(008)	01/29/09		N	N	GW	<u>Y</u>	Y	+ +		1	1							2 Liter Poly
MW-63-50-(008)	01/29/09		N	N	GW		 	1	1	1	1	-						2 Liter Poly
MW-63-93-(009)	01/29/09		N	N		Y	Y	1	1	1	1							2 Liter Poly
MW-63-163-(008)	01/29/09		N		GW	Y	Y	<u>l</u>	1	1	_1_							2 Liter Poly
MW-63-174-(008)	01/29/09		N	N N	GW	Y	Y	1	1	1	1							2 Liter Poly
	10 (1 0 1	11.32	14	IN	GW	Y	Y	1	1	1	1		_					2 Liter Poly
													\dashv		-			
						_	\dashv											
TAT Requested: Normal: ✓ Rush: St	pecify: (Subject to Surchar					=	_											
emarks: Are there any known hazards applic	able to these samples? If	so, please l	ilts: ist the i	Yes hazards	/ (1	No	<u> </u>		Circle	Deliver	rable:	C of A	/ QC	Summa	ary / I	Sample Easte Centr	rn 1	2 / Level 3 / Level 4 ion Time Zone Pacific Other
Relinquished By (Signed) Date Time	of Custody Signatures Received by (signe					Т						Sami	ıle Shi	nnina	and Da	Moun	บลบก	
00 C	Securo	, , ,		me		(GEL P	M:	Erin	Trent		Junq	, C 5111	pping a	and De	nvery L	Details	
1/29/00	1310 1 Store	JR 1/20	1109	150	(8)	N	dethod (of Shipi		FEDI	EX			Dat	te Shipp		···	
	2					A	irbill#								ie Snipp	ea:		
Chain of Custody Number = Client Determined						A	irbill#:											
QC Codes N° Normal Sample, TB = Trip Blank, FD= Field Duplin Field Filtered For liquid matrices, indicate with a Y - for yes the sa Matrix Codes DW-Drinking Water, GW-Groundwater, SW-Surface	Water 1971/19	ic was not rield th	iterea.				G≔ Grab	, C ≃ Co	mposite									r Lab Receiving Use Only
Matrix Codes DW-Drinking Water, GW-Groundwater, SW-Surfac Sample Analysis Requested Analytical method requested (i e 8260 Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH: WHITE	Sodium Hydroxide, SA= Sulfuric Acid	ML=Misc Liquid ters provided for a AA= Ascorbic A	l, SO =Soil, each (i e. 8 .cid. HX=1	SD=Sedimer 260B- 3, 601 Hexano ST	nt, SL =Sludg 0B/7470.4 - 1	(c, SS-) ().	Solid W	aste, O ≕	Oil, F=F	ilter, P='	Wipe, U	=Urine, F	⊱Fecal, !	N=Nasal		-		Custody Seal Intact? YES NO Cooler Temp:
WHITE	= LABORATORY	Yl	ELLOV	V = FILE	- sogium Th	10sulfa	te, If no PI	preserv NK =	ative is :	added = 1 ENT	leave fie	ld blank						Cooler Temp;

	GEL C	**See ww	of Cu	Istod om for G	y and GEL's Sa	d A	nal Acce	lytic	cal ce SO	Re	que	st			2040 : Charle Phone	Laborat Savage eston, S	Road SC 2940 556-8	107 3171	
Client Name: Entergy		Phone #:	(914)	736-840)5			5	Samp	le Ana	lysis F	Reques	ted ⁽⁵⁾			843) 76			ners for each test)
Project/Site Name: Indian Point Energy Cent	er	Fax #:	(914) 734-6	247	siti	ž ž					Ė						- Cintain	
Address: 450 Broadway, Suite 3, E	Buchanan, NY 10511					Should	sample be considered:	tainers	-	(S)	96						-+		< Preservative Type (6)
Collected by: AA MB	Gend Results To: Patrick D	onahue					1	Gontai	3)	(G	S) 06								Comments
Sample ID *For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number o	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90								Note: extra sample is required for sample specific QC
U3-T1-(023)	01/28/09	1250	N	N	GW	Y	Y	1	1	1	1								2 Liter Poly
U3-T2-(028)	64,8109	1140	N	N	GW	Y	Y	1	1	1	1								2 Liter Poly
•																			
															_				
-		·····																	
TAT Requested: Normal: ✓ Rush: Spe																			
Remarks: Are there any known hazards applica	cify: (Subject to Surcharge able to these samples? If s) Fax Res so, please	ults: list the	Yes hazards	/ (No	21		Circle	Delive	rable: (C of A	/ QC	Sumn	nary .	/ Leve	l I /	Level Collect	2 / Level 3 / Level 4 tion Time Zone
Chi	16		-11														Eastern Central Mounta	n) I	Pacific Other
Religiouished By (Signed) Date Time	of Custody Signatures Received by (signed) Date	т	ime								Sam	ole Sh	ipping	g and	Delive			
148 1/2 1/28/09 1	SECURE	D	121.		GEL I	PM:	Erin	Trent					···						
12012	STORA	<u>6 F , </u>	[58]	<u> </u>	134	, 5	Method	of Ship	ment:	FEL	EX			D	ate Sh	nipped:			
	3						Airbill #												
) Chain of Custody Number = Client Determined OC Codes N= Normal Sample TB = Trip Black FD= Field Dunling	FD F	***					Airbill #												
QC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplice Field Filtered For liquid matrices, indicate with a Y - for yes the sam Matrix Codes DNA Codes DNA Codes																	_	Fo	or Lab Receiving Use Only
) Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface) Sample Analysis Requested. Analytical method requested (i.e. 8260F)) Preservative Type. HA= Hydrochloric Acid, NI = Nitric Acid, SH= Si.	Water, WW=Waste Water, W=Water, i 3. 6010B/7470Aand number of contained odium Hydroxide, SA= Sulfaric Acid.	ML=Misc Liquers provided for	id, SO =Soil reach (i.e	l, SD= Sedime 8260B- 3, 60	ent, SL =Slu	dge, SS - 1).	=Solid V	Vaste, O	=Oil, F =	Filter, P	=Wipe, U	-Urine,	F=Fecal	. N≕Nasa	.1		_		Custody Seal Intact? YES NO Cooler Temp:
WHITE	rative Type. HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hexane, ST = Sodium Hydroxide, SA= Sulfuric Acid, AA= Ascorbic Acid, HX= Hydroxide, SA= Sulfuric Acid, AA= Sulfuri									s added = IENT	leave fie	ld blank					L		C

10 Number. 300 133 10	GEL C	**See ww ber: 	w.gel.co	om for C	EL's Sa	d A	Ana Acce	eptanc	e SO	P**					2040 S Charle Phone: Fax: (8	avage F ston, SC (843) 5 (43) 766	29407 56-8171 -1178	
Client Name: Entergy		Phone #:	(914)	736-840)5			S	Sampl	e Ana	lysis F	Reque	sted ⁽⁵⁾	(Fill i	n the	numbe	of cont	ainers for each test)
Project/Site Name: Indian Point Energy Center		Fax #:	(914) 734-6	247	d this	le be ered:											< Preservative Type (6)
Address: 450 Broadway, Suite 3, Buchar	nan, NY 10511					Shoul	sample be considered:	containers		GS)	Sr90	<u>@</u>						
Collected by: Miguel Britos Send Re	sults To: Patrick [onahue					3	٦	£ (2)	bec (3) 06	(Ni63)						Comments Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90	Nickel 63						required for sample specific
MW-55-24-(009)	02/11/09	1255	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
							<u> </u>											
																	 	
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TAT Requested: Normal: Rush: Specify:	(Subject to Surcharg	e) Fax Res	ulte	Yes	, (No		L					!	L				<u> </u>
Remarks: Are there any known hazards applicable to	these samples? If	so, please	list the	hazards		NO		'	Circle	Delive	rable:	C of A	/ QC	Sumn	nary /	Level	1 / Lev	vel 2 / Level 3 / Level 4
																E/C	astern	ection Time Zone Pacific Other
	tody Signatures											Sam	ple Sh	ipping	and		ountain y Detai	le
Relinguished By (Signed) Date Time	Received by (signer		T	ime			GEL I	PM:	ER	IN TI	REN		-		,		J Detail	
March & 12502 11/09 156	STORAG	E 02	11/00	}	150	20		od of S			FEI	DEX		I.	nto Cl	nipped:		
	2						Airbil		, inpin			71./1			ate Si	nppea:		
	3			·														
) Chain of Custody Number = Client Determined							Airbil							***************************************				
OC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB = Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was f	eld filtered on N - for same	e was not field	Filtered															For Lab Receiving Use Only
.) Matrix Codes: DW-Drinking Water, GW-Groundwater, SW-Surface Water, W	W=Waste Water, W=Water.	ML=Misc Liou	id. SO =Soi	l, SD =Sedim	ent, SL=Slu	dge, S	9=Solid V	Waste, O≕	≃Oil, F =	Filter, P	=Wine ■	l=Urine	F=Fecal	N=Naca	1			Custody Seal Intact?
.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010BF.) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium Hy WILLIES - LAD	4 / UNLING BURDDER OF CORTAI	iers provided to	reach (i.e.	RYKAD 3 KA	100/71701	4.								, 13638			-	YES NO Cooler Temp:
WHITE = LAB	ORATORY	, aa- ascordic	ACIG, HX= (ELLO)	= Hexane, ST W = FIL	= Sodium ' E	I hiosu	itate, If r P	io preser INK =	vative is = CLI	added = ENT	leave fi	eld blan	k					C

Page: 1 of 1 Project #: Entergy GW Mon Prog GEL Quote #: COC Number (1): PO Number: 50013510	GEL C	*See ww	of Cu w.gel.co	I stod om for C	y and GEL's Sa	d A	na Acce	lytic	cal e SOI	Rec	ques	st		204 Cha Pho	L Labor 40 Savag arleston, one: (843)	ge Roa , SC 29 (3) 556	ad 9407 5-8171	
Client Name: Entergy		Phone #:	(914)	736-840)5			S	Sampl	e Ana	lysis R	equest	ed ⁽⁵⁾ (iners for each test)
Project/Site Name: Indian Point Energy Cente	er	Fax #:	(914) 734-6	247	1 this	ered:											< Preservative Type (6)
Address: 450 Broadway, Suite 3, B	uchanan, NY 10511					Shout	sample be considered:	containers		(SS)	Sr90]							
Collected by: Miguel Britos So	end Results To: Patrick Do	onahue					P P	٥	H3)	bec (3) 06							Comments Note: extra sample is
U Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample ≽Matrix (4)	Radioactive	TSCA Regulat	Total number	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90							required for sample specific
U3-4D-(019)	02/10/09	1415	N	N	GW	Y	Y	1	1	1	1							2 Liter Poly
							_									<u> </u>		
															_			
																 	-	
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						•								-	+	ऻ—		
													-		-	-	\vdash	
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														-	-			
TAT Requested: Normal: ✓ Rush: Spec	cify: (Subject to Surcharge) Fax Res	ulte:	Yes		No	_									<u></u>		
Remarks: Are there any known hazards applica		o, please	list the	hazards		INO_			Circle	Delive	rable: (ot A	/_ QC S	ummary	/ / Le	Sampl Easte Cent	ole Colle ern tral	ction Time Zone Pacific Other
Relinquished By (Signed) Date Time	of Custody Signatures											Samp	le Ship	ping a	nd Deli		intain Details	6
The the	Received by (signed SECURED ISTORAGE	1.		`ime	1.20		GEL	PM:	Erin	Trent								
Judge N 136 02/10/09 1	430 ISTORAGE	02/1	Sjo	1 1	430		Method	l of Ship	ment:	FED	EX			Date	Shippe	:d:		
	2						Airbill	#;										
1.) Chain of Custody Number = Client Determined				·····			Airbill										Γ	
 QC Codes: N= Normal Sample, TB = Trip Blank, FD= Field Duplica Field Filtered: For liquid matrices, indicate with a Y - for yes the sam 	ple was field filtered or N - for sample	was not field	filtered														F	For Lab Receiving Use Only
 Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Sample Analysis Requested: Analytical method requested (i.e. 8260B 	Water, WW=Waste Water, W=Water, I	ML=Misc Liquers provided fo	id, SO =Soi	R260R 1 60	0108/74704	£3							=Fecal, N	=Nasal				Custody Seal Intact? YES NO Cooler Temp:
5) Preservative Type: HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sc WHITE	= LABORATORY	AA≖ Ascorbic	Acid, HX=	= Hexane, Si W = FIL	r = Sodium ' Æ	Thiosu		no preser PINK :			leave fie	ld blank				Į		C

Page: 1 of 1	277																	
Project #: Entergy GW Mon Prog	GEL C	'hain o	of Cu	istod	y and	d A	nal	lyti	cal	Re	aue	st				ooratorie		
GEL Quote #:		**See ww	w.gel.co	om for G	EL's Sa	mple	Acce	ptano	e SO	P**	1			- 1		vage Roa		
COC Number (1):	GEL Work Order Numb					•								- 1		on, SC 2 843) 556		
00010010	SEE WORK OF GUILLIAM															3) 766-1		
Client Name: Entergy		Phone #:	(914)	736-840	5			5	Sampi	e Ana	lysis F	Reques	ted ⁽⁵⁾	(Fill i	the nu	umber (of contai	iners for each test)
Project/Site Name: Indian Point Energy Cent	er	Fax #:	(914) 734-62	247	dthis	le be ered:										T	< Preservative Type (6)
Address: 450 Broadway, Suite 3, E	Buchanan, NY 10511					Shoule	sample be considered:	containers		3S)	0618	<u>©</u>						
Collected by: Miguel Britos	Send Results To: Patrick D	onahue					p e	ofcont	13)	Gamma Spec (GS)	Strontium 90 (Sr90	Nickel 63 (Ni63)						Comments Note: extra sample is
0 1 75	*Date Collected	*Time				ě	egula	m ber) u	na S	ium	63						required for sample specific
Sample ID * For composites - indicate start and stop dute/time	(mm-dd-yy)	(Military)	QC Code	Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Fotal number	Tritium (H3)	amu	ront	cke						QC
MW-60-35-(008)	02/09/09	(hhmm)	 ,,		GVV			<u></u>	F	Ğ	St	Ž		_				
MW-60-53-(008)	02/09/09	1612	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
MW-60-53-(008)-B		1128	N	N	GW	Y	Y	1	1	1	1	1	_	_			-	2 Liter Poly
MW-60-53-(008)-D	02/09/09	1135	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
	02/09/09	1138	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
MW-60-53-(008)-S	02/09/09	1148	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
MW-60-72-(008)	02/09/09	1125	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
MW-60-135-(008)	02/09/09	1204	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
MW-60-154-(008)	02/09/09	1223	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
MW-60-176-(008)	02/09/09	1308	N	N	GW	Y	Y	1	1	1	1	1						2 Liter Poly
TAT Requested: Normal: Rush: Spe	ecify: (Subject to Surcharg	e) Fax Res	sults:	Yes	/ (No	>		Circle	Delive	erable:	C of A	/ OC	Summ	<u></u> агv /	Level I	/ Leve	el 2 / Level 3 / Level 4
Remarks: Are there any known hazards applica	ible to these samples? If	so, please	list the	hazards														ection Time Zone
																	stern	Pacific
Chair	-5 C - 1 - C																ntral ountain	Other
Relinquished By (Signed) / Date Time	of Custody Signatures Received by (signe	<i>v v</i>	~									Sam	ple Shi	pping	and D		Details	\$
1 1 1 1	1655 SECUR			îme ;			GEL I	PM:	ER	IN T	REN							
JUGUEL SA 1734 02/09/00	STORA	GE C	2 09	901	165	55	Metho	od of	Shipm	ent:	FEI	DEX		D	ate Shi	pped:		
	2						Airbil	1#:								<u>h-7</u>		
NO.	3						Airbil	1#:										
.) Chain of Custody Number = Client Determined .) OC Codes. N= Normal Sample. TB = Trip Blank. FD= Field Duplic	oto FD - F																т-	
.) QC Codes. N= Normal Sample, TB = Trip Blank, FD= Field Duplic .) Field Filtered For liquid matrices, indicate with a Y - for yes the sar	nnie was field tiltered on N - for comm	1	£1. 1														<i></i>	For Lab Receiving Use Only
 Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface 	Water, WW=Waste Water, W=Water	ML=Misc Linu	id SO=Soi	il, SD =Sedim	ent, SL =Sli	udge, SS	⊱Solid V	Waste, C)= Oil, F =	=Filter, P	≒Wipe, I	J=Urine	F=Fecal	N=Nacol				Custody Seal Intact?
	o do to the formand number of contain	ners provided to	IT AGEN IL A	2760R 1 60	1100/74704	11)								(1050)			_	YES NO Cooler Temp:
) Preservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= S WHITE	edium Hydroxide, SA= Sulfuric Acid = LABORATORY	, AA = Ascorbic	: Acid, HX: YELLO	= Hexane, ST W = FIL	l = Sodium E	Thiosul	fate, If n	10 prese PINK	rvative is = CLI	s added :	= leave fi	eld biank						C
									~ ~ ~ ~ ~									

- 0 1 Kamber. 000 103 10	GEL C	**See ww	of Cu	Istod om for G	y and EL's Sa	d A	Ana Acce	lytic	cal ce SO	Red	que	st			2040 S Charle: Phone:	avage F ston, SC	C 29407 556-8171	
Client Name: Entergy		Phone #:	(914) 7	36-8405				5	Sampl	e Ana	lysis R	leques	ted ⁽⁵⁾					rainers for each test)
Project/Site Name: Indian Point Energy Center		Fax #:	(914) 7	34-6247		this	ž ji							Ì		T		< Preservative Type (6)
Address: 450 Broadway, Suite 3, Bucl	nanan, NY 10511					Should	sample be considered:	iners		(S:	(Sr90					-		Treservative Type (0)
Collected by: AAINB So	end Results To: Patrick Do	nahue					7	of containers	3)	Spec (GS)	S) 06					.		Comments
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix ⁽⁴⁾	Radioactive	TSCA Regulated	Total number o	Tritium (H3)	Gamma Sp	Strontium 90							Note: extra sample is required for sample specifi
MW-31-49-(014)	02106109	1105	N	N	GW	Y	Y	1	1	1	1			-+	_	_	_	
MW-31-63-(014)	02/06/09		N	N	GW	Y	Y	1	1	1	1			_				2 Liter Poly
MW-31-85-(014)	02/06/09	1172	N	N	GW	Y	Y		1	1								2 Liter Poly
	100		11	11	OW	1	Y	1	1	1	<u>l</u>				_	_		2 Liter Poly
							 											
											••••				_			
TITI						·												
TAT Requested: Normal: ✓ Rush: Spec Remarks: Are there any known hazards applicab	ify: (Subject to Surcharge) Fax Resi	ults:	Yes	/ (No	\supset		Circle	Delive	rable: (C of A	/ QC	Sumn	nary /	Level	l / Lev	vel 2 / Level 3 / Level 4
), please li.	st the h	azards 												Sa E/C	mple Coll astern Central Mountain	lection Time Zone Pacific Other
Relinquished By (Signed) Date Time	Of Custody Signatures Received by (signed) Date	7									Sam	ple Sh	ipping	and		ry Detail	is
agle 92 2/6/09 140	seave			ime			GEL	PM:	Erin	Trent								
3/6/09/140	Store	82 >	1610	<u>م (</u>	400		Method	of Ship	ment:	FEL	EX			D	ate Sh	ipped:		
3	2	•					Airbill	#:										
) Chain of Custody Number = Client Determined							Airbill											
OC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicat Field Filtered For liquid matrices, indicate with a Y - for yes the samp Matrix Codes DWED: Division Water, CNEC.	c, EB = Equipment Blank, MS= Matr	ríx Spike Samp	le, MSD=	Matrix Spike	Duplicate S	Sample	, G= Gra	b, C = C	omposit	e								For Lab Receiving Use Only
) Matrix Codes DW-Drinking Water, GW-Groundwater, SW-Surface \	Vater. WW-Waste Water Water A	was not need t	ilitered.				S-Solid V	Vaste. O	⊨Oil F≃	Filter D	=Wine T	lal leine	E-E1	N				Custody Seal Intact?
Sample Analysis Requested Analytical method requested (i.e. 8260B, Preservative Type HA ² Hydrochloric Acid, NI = Nitric Acid, SH ² So WHITE =	6010B/7470 Aand number of contained	ers provided for	each (i.e.	8260B- 3, 60	10B/7470A	- 1).		, O	Jii, 1	i moi, F	wipe, t	-ome,	r-recal	, iv≕Nasa	I			YES NO Cooler Temp:
WHITE =	= LABORATORY	Y	ELLO	W = F[L]	- Sodium ? E	ı bıosul	itate, If n	io preser INK :	vative is = CLI	added =	leave fie	ld blank					<u> </u>	C

Page: 1 of 1 Project #: Entergy GW Mon Prog GEL Quote #: COC Number (1): PO Number: 50013510	GEL C	**See ww	of Cu	I stod om for G	y and EL's Sa	d A	na Acce	lyti	cal ce SO	Re	que	st		20 Ch	40 Sava arlesto	oratorie age Roa n, SC 2	9407	
Client Name: Entergy		Phone #:	(914)	736-840)5	I -				l. A			(5)	Fa	x: (843	766-1	178	
Project/Site Name: Indian Point Energy Center	er	Fax #:		······································		_		7	Samp	ie Ana	llysis I	Reques	sted (3)	(Fill in	the nu	mber o	f conta	iners for each test)
Address: 450 Broadway, Suite 3, B		Ι αλ π.	(314) 734-6:	247	hould thi	sample be considered:	ers		160	-00				_	-		< Preservative Type (6)
Colleged	end Results To: Patrick Do	onahue				s	T	f containers	3)	(G§	90 (Sr9	63 (Ni63)						Comments
Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number o	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Note: extra sample is required for sample specific QC
MW-49-26-(015)	0.2/06/09	1303	N	N	GW	Y	Y	1		1	1	1			+	+	-	
MW-49-42-(015)	03/06/09		N	N	GW	Y	Y	1	1	1	1	1	-+		+-	-	-	2 Liter Poly
MW-49-65-(015)	02/66/09		N	N				1	1	<u> </u>	1	1		\dashv	-	 		2 Liter Poly
	00700751	121	11	IN	GW	Y	Y	1	1	1	1	1		_		ـــــ		2 Liter Poly
															ļ			
																		
TAT Requested: Normal: ✓ Rush: Spec																		
Remarks: Are there any known hazards application	cify: (Subject to Surcharge) ble to these samples? If s	Fax Resu	ilts:	Yes	/ <	No	$\geq \perp$		Circle	Delive	rable:	C of A	/ QC	Summar	y / L	evel I	/ Leve	el 2 / Level 3 / Level 4
	of Custody Signatures	o, pieuse i	ist the l	nazaras ———												Easte Cent	<u>le Collec</u> ern	ction Time Zone Pacific Other
Relinquished By (Signed) Date Time	Received by (signed)	Date	Ti	me		_						Samp	ole Ship	ping a	nd Del	ivery	Details	
1 again 3/6/09/14	. Deco						GEL I	PM:	Erin	Trent								
2	700 1 570	ap 11	6/09	140	<u> </u>	\dashv	Method	of Ship	ment:	FED	EX			Date	Shippe	ed:		
3	2						Airbill #	# :										
) Chain of Custody Number = Client Determined]3						Airbill #	/ :	·				· · · · · · · · · · · · · · · · · · ·					
OC Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate Field Filtered For liquid matrices, indicate with a Y - for yes the samp Matrix Codes DW+Drinking Water GW+Groundwater SW-Code Matrix Codes DW+Drinking Water GW+Groundwater SW-Codes	e, EB = Equipment Blank, MS= Matri ole was field filtered or N - for sample	x Spike Sampl was not field fi	e, MSD= N iltered.	fatrix Spike	Duplicate S:	ample,	G= Gral	b, C = C o	omposit	e							F	For Lab Receiving Use Only
 Matrix Codes DW-Drinking Water, GW-Groundwater, SW-Surface V Sample Analysis Requested Analytical method requested (i e 8260B, Preservative Type HA- Hydrochloric Acid NI = Nitric Acid Sthese 	Vater, W₩=Waste Water, W=Water, N 6010B/7470)Aand number of container	fL=Misc Liquid s provided for	d, SO =Soil, each (i.e. <i>&</i>	SD=Sedime	ent, SL =Slud	ige, SS	Solid W	Vaste, O=	=Oil, F =	Filter, P	=Wipe, L	≔Urine, I	F=Fecal, N	-Nasal				Custody Seal Intact? YES NO
7 Titale Acid, 511-500	dium Hydroxide, SA= Sulfuric Acid, A = LABORATORY	A= Ascorbic A	Acid, HX=	Hexane, ST V = FILI	= Sodium T	hiosul	ate, If n	o preserv INK =	vative is = CLI	added =	leave fie	ld blank		,				Cooler Temp: C

'age: 1 of 1	CELC	11 2	CC									·····						
roject #:Entergy GW Mon Prog	GEL C	nain (DI CI	ustod	y an	$\mathbf{d} A$	na	lyti	ical	Re	que	st				boratorie		
OC Number (1):		**See ww	w.gel.c	om for (GEL's Sa	ample	e Acce	eptan	ce SO)P**	1	~ •				vage Ro		
O Number: 50013510 GEL	Work Order Numb	er:														on, SC 2		
Tient Name: Entergy						· · · · ·										843) 556 3) 766-1		
		Phone #:	(914)	736-840	D5				Samp	le Ana	alysis	Reque	sted (5)	(Fill i	in the n	umber (of conta	iners for each test)
roject/Site Name: Indian Point Energy Center		Fax #:	(914	1) 734-6	247	i ii	ig pe					T		T		T	Conta	
ddress: 450 Broadway, Suite 3, Buch	anan, NY 10511					Should	sample be considered:	ners		(S)	8	-					-	< Preservative Type (6)
'ollected by: AAAM Send I	Results To: Patrick D	onahue				 	T	Total number of containers	3	Gamma Spec (GS)	Strontium 90 (Sr90)							Comments
Comple ID	*Date Collected	*Time	T		T		gulate	nber o	n (H	a Sp	E M							Note: extra sample is
Sample ID * For composites - indicate start and stop date/time	(mm-dd-yy)	Collected (Military)	QC Code	e Field Filtered (*)	Sample Matrix (4)	Radioactive	TSCA Regulated	anu je	Tritium (H3)	шш	onti							required for sample specific QC
MW-46-(015)	02/05/09	(hhmm) 1346	+ , -	 		\top		Ē	<u> </u>	J Ö	Str							* '
	02/03/09	1.30/6	N	N	GW	Y	Y	1	1	1	1							2 Liter Poly
			ļ	ļ		ļ		<u> </u>									1	2 CARCITON
																	1	
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														_			+	
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		·										-						
														_				
TAT Requested: Normal: ✓ Rush: Specify:		<u> </u>																
TAT Requested: Normal: Rush: Specify: emarks: Are there any known hazards applicable to	(Subject to Surcharge) Fax Res	ults:	Yes	_/ <	No	$\geq \perp$		Circle	Delive	rable:	C of A	/ OC	Summ	ary /	ا امیما	<u>-</u>	12 / Level 3 Level 4
James and applicable is	o these sumples? If s	o, piease i	list the	hazards												Samp	ole Colle	etion Time Zone
																East	tern	Pacific
Chain of Cu	stody Signatures		·	·												Mou	ıntain	Other
Relinquished By (Signed) Date Time	Received by (signed) Date	T	ime								Sam	ple Shi	pping	and D	elivery	Details	
Com 2/5/69 143	Is I sto		ر بس	·			GEL I	PM:	Erin	Trent								
8	31 316	(18g)	1/5/	Ge) /	435		Method	of Ship	pment:	FEL	DEX			D;	ate Ship	ped:		
							Airbill #	#:										
Chain of Custody Number - Client Determined							Airbill #	#:										
) QC Codes N - Normal Sample, TB Trip Blank, FD- Field Duplicate, EB) Field Filtered. For liquid matrices, indicate with a Y - for yes the sample was	Equipment Blank, MS= Matt	rix Spike Samp	le, MSD= }	Matrix Spike	Duplicate 5	Sample,	G = Grai	b, C = 0	omposit								,	ior Lab Provident
 Field Filtered. For liquid matrices, indicate with a Y - for yes the sample was Matrix Codes DW-Drinking Water, GW-Groundwater, SW-Surface Water 	field filtered or N - for sample	was not field t	filtered			, ,,		., ~ (-viiib√iii								ļ <u>'</u>	For Lab Receiving Use Only
) Matrix Codes DW-Drinking Water, GW-Groundwater, SW-Surface Water,) Sample Analysis Requested Analytical method requested (i.e. 8260B, 60101)) Preservative Type, HAT Hydrochloric Acid, N. C. Nario, Acid, St. C. C.	M7470 Nand number of containe	ME=Misc Liquers provided for	id, SO ≑Soi! reach (i.e	!, SD=Sedim 8260B- 3. 60	ent, SL =Slu	idge, SS - 1)	⊨Solid V	Vaste, O	►Oil, F=	Filter, P	≃Wipe, U	J=Urine,	F-Fecal,	N-Nasal				Custody Scal Intact? YES NO
Tydremone Acid, W. Mille Acid, SH. Sodium F	lydroxide, SA= Sulfuric Acid,	AA= Ascorbic	Acid, HX	Hexane, ST	`= Sodium	Thiosul	fate, If n	io presei	rvative is	added =	leave fie	eld blank						Cooler Temp
WHITE = LA	DOKA TUKY	Y	ELLO	W = FIL	E		P	INK	= CLI	ENT						ł	L	('

Project #:		Chain (of Ci w.gel.c	ustod	y an GEL's Sa	d A	na Acce	lyti	ical	Re	que	st		20	40 Sava	oratories age Road	đ	
O Number: 50013510	GEL Work Order Nun	ıber:												Ph	one: (8	43) 556-	-8171	
Client Name: Entergy		Phone #:	(914)	736-840)5	Π			Samo	le Ans	lveie I		otad (5)	Fa	x: (843	766-11	78	
'roject/Site Name: Indian Point Energy C	enter	Fax #:	(914	1) 734-6	 247		• #	T			11,315 1	Teque	stea 	(Fill in	the nu	nber of	Contai	ners for each test)
vddress: 450 Broadway, Suite	3, Buchanan, NY 10511		· · · · · ·	,		hould th	sample be considered:	F.	-	=	9	<u> </u>		_				S Preservative Type (6)
'ollected by: AATMB	Send Results To: Patrick	Donahue		 ,	· · · · · · · · · · · · · · · · · · ·	L.°	Ι	contain		(GS	(Sr9	li63)						Comments
Sample ID * For composites - indicate start and stop date/	*Date Collected	*Time Collected (Military) (hhmm) OC Code Field Filtered (1) Matrix (4)		Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 90 (Sr90)	Nickel 63 (Ni63)						Note: extra sample is required for sample specifi		
MW-55-35-(008)	02/04/09	1346	N	N	GW	Y	Y	1		9	S	Z				+		
MW-55-54-(009)	03104109		N	N	GW	Y	Y	1	1	1	<u> </u>				-			2 Liter Poly
					UW	Y	Y	1	1	1	1	1						2 Liter Poly
														_	+-			
															-	1-1		
							\dashv								-			
															ļ			
						-	\dashv											
TAT Requested: Normal: ✓ Rush:	Sanif																	
emarks: Are there any known hazards app	Specify: (Subject to Surcharg	Fax Rest	ilts:	Yes	/ <	No	>		Circle :	Deliver	able: (of A	/ QC s	ummary	/ / Le	vell	Level	2 / Level 3 / Level 4
		so, pieuse i	isi ine i	nazaras 	_											Sample Eastern Centra	Collect n al	ion Time Zone Pacific Other
Relinquished By (Signed) Date Time	ain of Custody Signatures Received by (signe	d) D-v-										Samp	ole Ship	ping ar	ıd Deli	Mount	tam	
00000 114109	17AC Securo	d) Date	i i	ime			GEL P	M:	ERI	N TR	EN					,	CTAILS	
3 274101	1705 1 Stu	ago ?	(410	917	20		detho	d of S	hipme	ent:	FED	EX		Date	Shipp	ed:		
	2						\irbill	#:										
Chain of Custody Number :: Client Determined	13						Airbill	#:										
OC Codes. N~ Normal Sample, TB = Trip Blank, FD= Field Du Field Filtered For liquid matrices, indicate with a Y - for yes th Matrix Codes DW+Drinking Water CW+Groundwater	aplicate, EB = Equipment Blank, MS= Ma e sample was field filtered or N - for samp	trix Spike Sample le was not field fi	e, MSD= N Itered	Matrix Spike	Duplicate S	ımple, (G= Grab.	. C = Co	mposite								Fo	r Lah Receiving Use Only
Sample Analysis Requested Analytical method requested (i.e. 8	tace Water, WW=Waste Water, W=Water,	ML=Misc Liquio	I. SO =Soil,	SD=Sedime 2608- 3, 601	nt, SL =Slud <i>0B/7470A</i> -	ge, SS=: 1)	Solid Wa	aste, O=	Oil, F ≃F	ilter, P=	Wipe, U	Urine, F	Fecal, N	-Nasal				Custody Seal Intact? YES NO
	ΓΕ = LABORATORY	AA= Ascorbic A	cid, HX=	Hexane, ST V = FILE	= Sodium T	hiosulfa	te, If no PI	preserv NK =	ative is a	ndded = 1 E NT	leave fiel	d blank						Cooler Temp: C

Page: I of I Project #: Entergy GW Mon Prog GEI. Quote #: OC Number: GEI O Number: 50013510 GEI	GEL Cha **Se L Work Order Number:	in of	Cu gel.co	Istod	ly an GEL's S	d A	na e Acc	lyti eptan	ical	Re	que	est			2040 Char	Laborator Savage R eston, SC	oad 129407	
Tient Name: Entergy						·										e: (843) 5; (843) 766-		
Project/Site Name: Indian Point Energy Center	Phor	ne #: (9	14) 7	736-840)5 ———		_		Samp	le Ana	alysis	Reque	ested (5) (Fi	ll in the	.843) /66-	-1178 of cont	ainers for each (est)
	Fax	#:	(914)	734-6 (247	this	red:				Γ		T	Ī			or com	
\ddress: 450 Broadway, Suite 3, Bucl	nanan, NY 10511				•	Should	sample be considered:	ners	}	S	8	-			+			Preservative Type (6)
'ollected by: AA/MB Send	Results To: Patrick Donah	 nue		 .		\vdash	т	contai	(E)	(G)	90 (Sr90							Comments
Sample ID * For composites - indicate start and stop date/time	(mm-dd-yy) (Mil	ime lected Quitary) mm)	C Code	Field Filtered (3)	Sample Matrix (4)	Radioactive	TSCA Regulated	Total number of containers	Tritium (H3)	Gamma Spec (GS)	Strontium 9							Note: extra sample is required for sample specifically QC
MW-32-149-(009)	02/04/09/13	50	N	N	GW	Y	Y		+-		S	+						
MW-32-173-(007)	02/04/09/13		N	N	GW			1	1	1	1							2 Liter Poly
MW-32-190-(010)	02/04/09/13		N		 	Y	Y	1	1	1	1_	<u> </u>						2 Liter Poly
MW-32-59-(008)	02/04/09/15		-+	N	GW	Y	Y		1	1	1	ļ						2 Liter Poly
MW-32-85-(011)	02/04/09/15		N	N	GW	Y	Y		1	1	1							2 Liter Poly
	04/04/04/13	47	N	N	GW	Y	Y		1	1	1							2 Liter Poly
TAT Requested: Normal: Rush: Specify:			\perp															
marks: Are there any known hazards applicable in	(Subject to Surcharge) Fax	Results:		Yes	/ (No	2		Circle	Deliver	able:	C of A	/ OC	Sum		l aval l	<u></u>	12 / Level 3 Level 4
Chain of C	ustody Signatures	ase list	the h	azards ————	•											Samr East Cent	ole Colle tern tral	to Level 3 Level 4 ction Time Zone Pacific Other
Inquished By (Signed) Date Time	Received by (signed)	Date	Tim			_						Samp	ole Shi	ppin	gand	Mor Delivery	untain Details	
uguel of Be 02/04/09 170	ISECUREN						BEL P			N TR	EN							
1	SISTORAGE	02	04	09	17c	5	1ethoo	d of S	hipme	ent:	FEL	DEX		1	ate Sh	ipped:		
	3		· · · · · · · · · · · · · · · · · · ·				virbill										-	
hain of Custody Number - Client Determined C Codes N= Normal Sample, TB = Trip Blank, FD= Field Duplicate, EB eld Filtered For liquid matrices, indicate with a Y - for yes the sample was atrix Codes DW-Drinking Water CW-Grounding are SW-6.	Equipment Blank, MS= Matrix Spike	Sample, MS	SD= Ma	itrix Spike E	Ouplicate Sa	omia (irbill F Grab,	•	mposite				·	-			j.	or Lab Receiving Use Only
fatrix Codes DW-Drinking Water, GW-Groundwater, SW-Surface Water, ample Analysis Requested Analytical method requested (i.e. 8260B, 6010B reservative Type HA= Hydrochloric Acid, NI = Nitric Acid, SH= Sodium FWHITE = LA	WW=Waste Water, W=Water, ML∞Misc	Liquid, SO led for each orbic Acid,	a ►Soil, S (i e <i>826</i> HX= H	D =Sedimen	t, SL =Slud 0 <i>B/7470.4 -</i> Sodium Tl	ze. SS⊨S	Solid Wa	aste, O ≕	OR Rat	ilter, P=1 added = 1	Wipe, U	≂Urine, I Id blank	F-Fecal, I	N =Nas;	LÎ		,	Custody Seal Intact? YES NO Cooler Temp.



APPENDIX D: 1ST QUARTER 2009 SAMPLING DATA SHEETS

			GZA FI	ELD ACTIVITIES SH	EET		+
Project: Cilent: Site: Location:	Radiological Entergy Nuc INDIAN POI Buchanan, N 01.0017869	lear NorthEas	Sampling Program t CENTER		Date: GZA Engineers:	And the second s	el Britos
Project #:	01.0017869	.91				Ange	la Altieri
GZA Engineer: Time Arrived on Site:		el Britos		Angel	la Altieri	Weather: Sunny	20'5
Time Left Site:		00				'	
	1 /	0.0					
			WELL	SAMPLING ACTIVITIE	<u> </u>		
Well ID		gnation REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (vos, amber, poly, glass)
MW-40-276	006	IPEC	- 2 L	POLY			
110-40-276	007)		1	1			
-461	1						
- 816	/						
1000	009)						
1-127(c	1000						
4-4-162	600	V	1	4			
	,						
			94				
7							
.)———							
			TRANSDUCER DO	WILDADING AND INS	TALLATIONS		
Well ID	ACTIVIT Download	Y (check)		Special N	otes/issues/Observations		Follow-up Required?
,							
*1							
					15		
					9		18
		MEET	TINGS, SPECIAL ACTIV	VITIES, NOTABLE EVEN	ITS. DELAYS. NOTES		
1 11000 (+1		2030	a Anem	DADING 0			
Lines (tub	ing).	of we se	VI O POOT	0000			i
	7	10					ı
							1

1	Project: Client: Site: Cocation: Project #: GZA Engineer:	Entergy Nuc INDIAN POI Buchanan, N 01.0017869.	lear NorthEas NT ENERGY NY	Sampling Program	Ange	Date: GZA Engineers: a Altieri	Migu Ange	el Britos
	Time Arrived onSite:	063	-				Sunny	oppor
		163	30		L		2	
_				WELL	SAMPLING ACTIVITIE	8		
	Well ID		nation REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.	Quantity/ Volume	container type (voa, amber, poly, glass)
1	MW-51-40-	(010)	IPEC	2 L	poly			
ŀ	1-79-1	010)						
ł	-104-1	008)						
,	-163-(008)						
I	V-189-C	008)	J	V	4			
ŀ								
ŀ								
ł				1				
t								
,								
L								
_				TRANSDUCER DO	OWNLOADING AND INS	TALLATIONS		
	Well ID	ACTIVIT Download	Y (check) Installation		Special N	otes/issues/Observations		Follow-up Required?
L								
ŀ						1		
ŀ								
İ								
L								
ŀ								
H								
L								
_					VITIES, NOTABLE EVE			
	Brake 2' Lines fro	of in	e en	top of.	wells a	id from s	inour pl	Low.

			GZA FII	ELD ACTIVITIES SH	EET		, ,
Project: Client:	Radiological Entergy Nuc	Groundwater lear NorthEas	Sampling Program		Date:	421	109
Site: Location: Project #:	Buchanan, N 01.0017869	NY.	CENTER		GZA Engineers:	Verification of the Control of the C	el Britos la Altieri
GZA Engineer:	Migue	el Britos		Ange	la Altieri	Weather:	
Time Arrived onSite: Time Left Site:	160	30		700		20,2	SCV
			WELL	SAMPLING ACTIVITIE	S		
Well ID		gnation REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc	Quantity/ Volume	container type (voa, amber, pol glass)
MW 37-22((3) (1	PEC	21	9014			
1W-3-7-40((3)	1	4	1			
				to			
			TRANSDUCER DO	WNLOADING AND INS	TALLATIONS		
Well ID	ACTIVIT Download	Y (check)		Special N	iotes/Issues/Observations		Follow-u Required
DUT-1	8	X	old trans	stopped	13117108.	Roplaced	
MW37-32	æ	12-set	fransde 9.75 / 5		0.274		
MW 37-21	X	X		080 +	0.128		
MW-37-5			n - 1 1	763 +	0.16		
				reading	off by this anant		
				VITIES, NOTABLE EVE			

WELL ID MUSTOS SAMPLE ID: 013

GZA GeoEnvironmental of New York Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC SITE: Buchanan, NY WEATHER: 20'5 SW	PROJECT NO: DATE: SAMPLER(S):	01.0017869.91 1/21/19 AATUB
8	PUMP DEPTH:	ft

WATER QUALITY:

Time	or GW Elevation	pH (SU)	Specific Conductivity (S/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp	ORP	Rate (gal/hr)	Notes
302	9.81'	1	umps	\					
3(2	9.82	7.15	2.624		2.30	99.16	-370		1
1316	9.82	7.16	5.288	10.4	1.57	20.43	-80.8		
1321	9.83	7.24	2.566	5.71	1.22	20,65	-76.7		
1326	9,83	7.25		5,87	1-03	20:71	-90.7		
1331	9.84	7.29	2.554	8.03	0.79	20.76	-97.6		
336	9.84	7.25	2.547	4.75	0.72	20.78			142pm
1341		7.30	2,541	4.91	0.66	20,79	-116.8		J
346	9.86	7.27	2,540	4.68		10.79	- (25,2		
1351	9,87	7.30	2.541	4.21	0.59	20.79	-1315		
357	9.87	7.28	2.542	4.03	0.57	20,75	-1321		
402	9.88	707	2.540	3.98	0.53	20.79	-135.3		
407	STRVY	Sin	ing.						
427	272	Say	reang -	20	1PEC				
			. 0						

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	1
flow meter	
turbidity meter	201701254
	7-00 101204

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing. Groundwater Elevation measurements are given in feet msl.

nd. 2 gal purgea

GZA GeoEnvironmental of New York Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC SITE: Buchanan, NY WEATHER: 35 5 5 5	PROJECT NO: DATE: SAMPLER(S): PUMP DEPTH:	01.0017869.91 - (/21/09
		"

WATER QUALITY:

	Time	or GW Elevation	pH (SU)	Specific Conductivity (S/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Notes
44	1302 13(3 1318 1327 1327 1332 1337 1346 1352 1358 1403 1430	14.464 14.411 14.415 14.415 14.419 14.463 14.388 14.374 14.371 14.370 Start \$	7.20 7.28 7.33 7.39 7.47 7.47 7.50 7.53 7.56 7.58 7.59	1.757 1.648 1.534 1.538 1.536 1.533 1.533 1.516 1.511 1.506	8-44 3.68 4.16 4.16 3.16 2.41 2.23 3.27 3.16 3.38	1.26 0.95 0.81 0.71 0.66 0.61 0.57 0.53 0.48	20.17 20.39 20.47 20.52	113.0	(gaunt)	i gao c

Equipment Used	Equipment
YSI 556 MPS Reader and 5563 Sonde	Identification #
flow meter	6
turbidity meter	
	12510500

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing. Groundwater Elevation measurements are given in feet msl.

~ 2. 2 gal purgea

GZA GeoEnvironmental of New York Low-Flow Sampling Data Sheet

CLIENT: Entergy - IPEC SITE: Buchanan, NY WEATHER:	PROJECT NO: DATE: SAMPLER(S): PUMP DEPTH:	01.0017869.91 1/21/09 AAIMB 100 100 100 100 100 100 100 10
	TOM DELTIT.	- 5

WATER QUALITY:

Time	or GW Elevation	pH (SU)	Specific Conductivity (S/cm)	Turbidity (NTU)	Dissolved Oxygen (g/l)	Temp (°C)	ORP	Rate (gal/hr)	Notes
1301	12.168	76	MUM						1
1314	12.142	7.34	1.653	-	1.40	20-33	18.3		
319	19.174	723	1:642		1.18	20,71	21.0		
1323	181.61	7.23	1.619	4.85	(.()	30.88	21.4		
1328	12,117	7.18	1.607	5.04	1-08	21.06	24.5		
1333	12.103	7.16	1.605	3,71	1.04	21.15	30-0		
1338	12.101	7.15	1.602	2.92	1.02	21.22	33.7		
1343	12.093	7.17	1.605	3.06	1.04		36.0		1 gal purge
1348	12.093	7.17	1.606	3.22	1.02	21.29			
351	Start 9	angl	ine			O.			
1422		anje	2 - all	CIA	FC				
		,	U						

				¥ .					

Equipment Used	Equipment Identification #
YSI 556 MPS Reader and 5563 Sonde	7
flow meter	
turbidity meter	V25105405

NOTES AND OBSERVATIONS:

Depth and Depth to Water (DTW) measurements are given in feet from top of casing. Groundwater Elevation measurements are given in feet msl.

~ 1,3 gal purged

ient: te: ocation: roject #:	INDIAN POII Buchanan, N 01.0017869.	ear Northeas NT ENERGY IY 91	CENTER		GZA Engineers:	Miguel Britos Angela Altieri	
oject #:	01.0017003.						
A Engineer:	Migue	l Britos		Angel	a Altieri	Weather:	No. of disk
me Arrived onSite:	1	1007		10	0,	30,2	, Eloy
me Left Site:	CL.	10		2	ł D		
	2.						
			WELI	L SAMPLING ACTIVITIES	T	Г	container ty
Well ID		nation tEL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	(voa, amber, glass)
W37-40 (013)	IPE	C	26	pory			
11036-24(013)				'			
W36-52(01)							
W50-42(016)							
WSO-66 (020)		/	A.	4			
	<u> </u>						
				-			
					L		
			TRANSDUCER D	OWNLOADING AND INS	TALLATIONS		
Well ID	ACTIVITY Download	Y (check)		Special N	otes/Issues/Observations		Follow Requi
			DTW	transira	ing should rec	ad off bu	ant
1W36-24	thected		4.04	7,591	ing should roo	- 0.03	3
W-36-52	Checked	X	5.07	6.913	11.670	-0:243	
43-C1	Charles	d trans.	13.18	5.684	18.060	-0.804	
HR-1	Charles Charles Checkel Installe Second	i i	16.26	2.21	18.496	+.02	
	secono	l trans.					
WSD-41			11.36	3,309	14, 453	- 0.181	6
MW50-66			8.39	6.057	14.614		7
	1		1/1				
				IVITIES, NOTABLE EVE			

Date:

Radiological Groundwater Sampling Program

45 min. safety meeting this morning

Project:

1122109

Project:	Radiological Groundwater Sampling Program	Date:	400101
Client: Site:	Entergy Nuclear NorthEast INDIAN POINT ENERGY CENTER	GZA Engineers:	Miguel Britos
Location: Project #:	Buchanan, NY 01.0017869.91		Angela Altien

ZA Engineer: Time Arrived onSite: Time Left Site:	Miguel Britos	Angela Alteri 700 (630		Alberi	Weather: 30'5,500	
		WEL	L SAMPLING ACTIVITIE	:5		
Well ID	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (vos, amber, poly, glass)
62-181008)) IPEC	26	goly			
62-3760087			,			
62-53 (007)						
62-716008	1					
62-92(008)						
62-138(008)						
62-1821008		7	4			
						Col (all)

TRANSDUCER DOWNLOADING AND INSTALLATIONS ACTIVITY (check) Follow-up Required? Well ID Special Notes/Issues/Observations Download Installation difference showed rd +0.367 W62-18 11,00 1,373 12.810 + 0.003 11,44 1,373 12.810 Charged to renvented transducer 00083

MEETINGS, SPECIAL ACTIVITIES, NOTABLE EVENTS, DELAYS, NOTES
25 mon- snow removal around mw62.
I hr Overburden wells tubing was from a we
had to use the heat son to defrest the lines.

				GZA FI	ELD ACTIVITIES SH	EET			
S	roject: lient: coation: roject #:	Radiological Groundwater Sampling Program Entergy Nuclear NorthEast INDIAN POINT ENERGY CENTER Buchanan, NY 01.0017869.91			Miguel Britos Angela Altieri				
1	EZA Engineer: Time Arrived onSite: Time Left Site:		Britos		Ange	la Altieri	Weather:	y 20's	
 [Well ID	Desig	gnation	WELL Quantity/ Volume	container type (voa, amber, poly,	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly,	
	MW-42-49 MW-53-821 MW-53-120	·	TPEC	2 L	glass)	(IFEC, NHC, NEE, CAF, etc.)		glass)	
L				TRANSDUCER D	OWNLOADING AND INS	TALLATIONS			
0	Well ID 1W-42-78 1W-53-82	ACTIVIT Download	Y (check) Installation	Reprogra	Special N	otes/Issues/Observations	deflerence	Follow-up Required?	
						8			
_	Freezing temperatures. Tubing freezes outside well.								

	Project: Cilent: Site: Location: Project #:	Radiological Groundwater Entergy Nuclear NorthEast INDIAN POINT ENERGY (Buchanan, NY 01.0017869.91			Date: GZA Engineers:	Miguel Britos Angela Altieri					
	ZZA Engineer: Time Arrived onSite: Time Left Site:	Miguel Britos	WEI	Angel 101 100 SAMPLING ACTIVITIES		Weather:	p.clad				
-	Well ID	Quantity/ Volume	container type (voa, amber, poly,								
•	MW66-36 (00 MW67-39 (008) MW67-105 (007 MW67-173 (007 MW67-276 (007) MW67-276 (007) MW67-373 (007) MW67-340 (000)		2L 2L	glass) POLY	(IPEC, NRC, REL, CAP, etc.) N/C N/C // // // // // // //	2 L 2 L	Pary				
- 5			TRANSDUCER DO	OWNLOADING AND INS	TALLATIONS						
	Well ID MWG6-36 PW 66-36	ACTIVITY (check) Download Installation	DTW 0.284 1.066	Special No Avens: Surface rd 0.284 1.066	otes/Issues/Observations trans. Actual lefth 7.357 Not shown	Add to Pata + 0.13 + 0.00	3				
	MEETINGS, SPECIAL ACTIVITIES, NOTABLE EVENTS, DELAYS, NOTES NW-63 - Plowed & Mighel Spent work him Breaking ice on MW63 - NEC dia not observe surping from 1320-1340 as noted on NECS COC.										

Project: Client: Site: Location: Project #:	Radiological Groundwater Entergy Nuclear NorthEast INDIAN POINT ENERGY Buchanan, NY 01.0017869.91	st		(55)	uel Britos ela Altien	
iZA Engineer: Time Arrived onSite: Time Left Site:	Miguel Britos 700 1H30	IL		la Alten	Weather: SMC	Wither Fain.
Well ID	Designation (IPEC, NRC, REL, CAP, etc.)	Our at the d Walterna	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (vos, amber, poly, glass)
U3-T1 (03) U3-T2 (028)	IPEC IPEC	<i>∂</i> ∟	pory			
Well ID	ACTIVITY (check) Download Installation	DTW	TYCAS Special No	tes/Issues/Observations Actual Death	Acta to	Follow-up Required?
U3-T1 U3-T2	Chocked	4.84	3,673 3,806	2,169	t.005	
	MEETI	ngs, special activi	TIES, NOTABLE EVENT	S, DELAYS, NOTES		
Bhrs spe	nt: went for a scarp	nto FS proval to e russo e rea- ne	Bto check Binto RC Need to wrule	t if wait to A wait to be on the sch setup at L	et dos Sauce to 13-T1 + T2	sa of hus- vaiting to go in go into

oject: ent: e: cation: oject #:	INDIAN POINT ENERGY CENTER Buchanan, NY 01.0017869.91 Ingineer: Miguel Britos Wrived onSite:				Date: GZA Engineers:	Miguel Britos Angela Altien		
A Engineer: ne Arrived onSite: ne Left Site:				7() 16(ela Altieri	Weather: 20's, SM		
Well ID	Des (IPEC, NRC,	ignation REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (vos, amber, poly glass)	
W63-18 68	1 1/2+	زر	26	pory				
63-50 (05								
63-931009								
63 174 (08			7					
				16				
					0			
			TRANSDUCER DO	WNLOADING AND INST	ALLATIONS			
Well ID	ACTIVIT Download	Y (check)	DTW	trans. Special No rading Az	tes/Issues/Observations	to pata	Follow-up Required?	
W63-18	4	ط	13.48	-0.066	4.252 -0.	414 *	Butteries	
W63-34			13.43	70.330	2.819 -,03	36		
-								
		MEETIN	KGS, SPECIAL ACTIVIT	TES, NOTABLE EVENT	S. DELAYS, NOTES			

Project: Client: Site: .ocation: Project #:	Radiological Groundwate Entergy Nuclear NorthEas INDIAN POINT ENERGY Buchanan, NY 01.0017869.91	r Sampling Program st CENTER	Date: GZA Engineers:			Miguel Britos Angela Altieri		
GZA Engineer: Time Arrived onSite: Time Left Site:	onSite:		Angela Altieri		Weather: cloudy, 30's, little Showfurrics			
Well ID	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, pol glass)		
MW42-78(6)1 4430-69(02) MW30-84(0)4 MW63-121(008)		JC J	Poly					
/		TRANSDUCER D	OWNLOADING AND INS	TALLATIONS				
Well ID PW-1 MW 30-69 MW30-84	ACTIVITY (check) Download Installation	Faci	Special N	iotes/Issues/Observations		Follow- Require		
			IVITIES, NOTABLE EVE					

GZA FIELD ACTIVITIES SHEET

Project: Client: Site: Location: Project #:	Enteray Nuc	lear NorthEas NT ENERGY IY	Sampling Program t CENTER		Date: GZA Engineers:		ela Altieri
GZA Engineer: Time Arrived onSite: Time Left Site:	Migue	Britos		75 190	ala Altieri	Weather: AM-C	30's, Sin
			WEL	L SAMPLING ACTIVITIE	s		
Well ID		nation REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.	c.) Quantity/ Volume	container type (voa, amber, poly, glass)
MW45-42(0 MW45-61(0) MW44-102(0) MW44-67(0)	(5) (5) (1)	PEC	* IL	poly did n	ot rechca	a my 1	<i>L</i> ,
			Ostain	Will to	h 1.	Morning	9-
			TRANSDUCER D	OWNLOADING AND INS	TALLATIONS		
Well ID	ACTIVIT Download	Y (check)		Special N	lotes/Issues/Observations	dato Pata	Follow-up Required?
MW44-67	Y	>	4077)	1.414	-, 200	
MW44-102				15.329 3		+ .041	
MW45-4)			25.17 2 26,36 2	8,065 15 6,794 34		+,009	
	,	MEE	TINGS, SPECIAL ACT	IVITIES, NOTABLE EVE	NTS, DELAYS, NOTES		

Project: Client: Site: Location: Project #:	Radiological Groundwater Entergy Nuclear NorthEast INDIAN POINT ENERGY Buchanan, NY 01.0017869.91	st		Date: GZA Engineers:	Miguel Britos Angela Altieri		
GZA Engineer: Firme Arrived onSite: Firme Left Site:	Miguel Britos 700 1700		17	a Altieri	Weather:	302	
Well ID	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly,	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, pol	
MW44-66 MS8-65 (007) MW54-37 (608) MW54-123 (60) MW54-123 (60) MW54-123 (00) MW54-123 (00) MW54-173 (00)		16	glass) PEIY #	finished Sa	mpling Go	glass)	
Well ID	ACTIVITY (check) Download Installation	non tra	OWNLOADING AND INS	otes/Issues/Observations		Follow-t Required	
10058-36 10058-36	x (eset	8.09 6.	Ling Actings 157 17.07 899 60.28	4 -0.017			
	MEE	TINGS, SPECIAL ACTI	VITIES, NOTABLE EVE	NTS, DELAYS, NOTES			

Project: Client: Site: Location: Project #:	Radiological Groundwate Entergy Nuclear NorthEa INDIAN POINT ENERGY Buchanan, NY 01.0017869.91	st		Date: GZA Engineers:	Miguel Britos Angela Altieri		
GZA Engineer: Time Arrived onSite: Time Left Site:	Miguel Britos		Ange 17	la Attieri	Weather:	S	
		WELL	SAMPLING ACTIVITIE	s			
Well ID	Designation (IPEC, NRC, REL, CAP, etc.	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly glass)	
MW55-35/08	IPEC)C	pory				
awss-54 (069							
4W32-59 (6US)							
M33-85(011)							
130 (607)							
MW32-149(009)							
MW32-194(010)							
			-				
				THE ATTOMO			
	T	TRANSDUCER DO	WNLOADING AND INS	TALLATIONS			
Well ID	ACTIVITY (check) Download Installation	DTW	TCA Special N	lotes/Issues/Observations Actual Diff	erence	Follow-up Required	
MW 35-24	Checked.	9.64	8.110		10,020		
MW5535	Checked	10.04	7.713		0.013		
MW 55-54	x x x	10.98	8.120	40,834		this fest	
A Ba	tterios dea	d			5	opped mid	
					r^ -		
					De	cember.	
					De	cember.	
					De	cember.	
					De	cember.	
					De	cember.	
					De	cember.	
					De	cember.	
					De	cember.	
		ETINGS, SPECIAL ACTIV	VITIES, NOTABLE EVE	NTS, DELAYS, NOTES	De	cember.	
MWSS-1	ME						
MWSS-2 Outputs.	ME			NTS, DELAYS, NOTES was trubing to erday. nis (chel.			

Date:

214/09

Project: Client: Site: Location: Project #:	Entergy Nucl	ear NorthEast NT ENERGY Y	Sampling Program t CENTER		Date: GZA Engineers:		el Britos
GZA Engineer: Time Arrived onSite: Time Left Site:	Migue 7	Britos		70	a Altieri	Weather: 10'S Windo	, Scn
Well ID		nation EL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.	Quantity/ Volume	container type (voa, amber, poly, glass)
MW46	LPE	F.C.)L	poly			
			TRANSDUCER DO	OWNLOADING AND INS	TALLATIONS		
Well ID	Download	f (check) Installation	otw +	Special N	otes/Issues/Observations Achual Jeff	h Differ	
MW49-26			12.75	1.669	14,762	14	
MW49-42 MW49-65			12.79	1.506	13.076	+ . (
MW46	y x	Ø	4.54	12.910	23,157	- , 4	P)
		MEE	TINGS, SPECIAL ACTI	VITIES, NOTABLE EVE	YTS, DELAYS, NOTES		
MW49-	atte	repter line	d to sai	inple, by lines It sample	using her	it fun to	freeze

Project: Client: Site: Location: Project #:	Radiological Entergy Nuc INDIAN POI Buchanan, N 01.0017869.	lear NorthEas NT ENERGY NY	Sampling Program t CENTER		Date: GZA Engineers:	Miguel Britos Angela Altieri		
GZA Engineer: Fime Arrived onSite: Fime Left Site:	1500		Ange 201	la Altieri	Weather: (5 , Claud			
Well ID	Desig	gnation REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly glass)	
MW31-B3(014) MW31-B3(004) MW49-26(015) MW49-65(015)	4) 1/5		JL	psly				
			TRANSDUCER D	OWNLOADING AND INS	TALLATIONS			
Well ID	ACTIVIT Download	Y (check) Installation		Special N	iotes/Issues/Observations		Follow-u Required	
142 hrs-				IVITIES, NOTABLE EVE	NTS, DELAYS, NOTES			

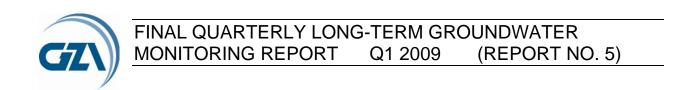
			GZA FI	ELD ACTIVITIES SH	EET			
Project: Client: Site: Location: Project #:	Radiological (Entergy Nucle INDIAN POIN Buchanan, N 01.0017869.9	Υ	Sampling Program Date: t CENTER GZA Engineers:			Miguel Britos Angela Altieri		
GZA Engineer: Time Arrived onSite: Time Left Site:	Miguel 07.0	Britos		Ange	a Altieri	Weather:	30's	
			WELL	container type			container type	
Well ID	Design (IPEC, NRC, RI	nation EL, CAP, etc.)	Quantity/ Volume	(voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	(voa, amber, poly, glass)	
MW-60-35 MW-60-53 """ MW-60-72 MW-60-135 MW-60-156 MW-60-176	IPEC IPEC	c dupl	icate 21	POLY				
			TRANSDUCER DO	OWNLOADING AND INS	TALLATIONS			
Well ID	ACTIVITY Download	(check) Installation		Special N	iotes/Issues/Observations		Follow-up Required?	
		MEE	TINGS, SPECIAL ACTI	VITIES, NOTABLE EVE	NTS, DELAYS, NOTES			
MW-								

		GZA FI	ELD ACTIVITIES SH	EET		-
Project: Client: Site: .ocation:	Radiological Groundwater Entergy Nuclear NorthEas INDIAN POINT ENERGY Buchanan, NY	Sampling Program st CENTER		Date: GZA Engineers:		6 9 vel Britos
Project #:	01.0017869.91				Ange	ela Altieri
).		•				
GZA Engineer:	Miguel Britos		Ange	la Altieri	Weather:	1 1 1
Time Arrived onSite:	0700				P cloud	84 10m-
'ime Left Site:	1500					
		WELL	SAMPLING ACTIVITIE	8		
	Designation		container type	Designation	Quantitud Valuma	container type
Well ID	(IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	(voa, amber, poly, glass)	(IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	(voa, amber, pol glass)
U3-4D	IPEC	2 1	poly			-
						
	 					
	 					
)						
		TRANSDUCER DO	OWNLOADING AND INS	TALLATIONS		
	A COUNTY OF THE PARTY OF THE PA					
Well ID	ACTIVITY (check) Download Installation		Special N	otes/Issues/Observations		
Well ID		Reset.	Special N			
Well ID U 3 - 4D U 3 - 3		Reset.	S 71	game Asing		
Well ID U 3 - 4 D U 3 - 3 U 3 - C 1	Download installation	Reset.	S 71	0.257		
Well ID U3-40 U3-3 U3-61 MW-46	Download installation	Reset.	S 71	0.257		
Well ID U 3 - 4D U 3 - 3 U 3 - C 1 MW - 46 U 3 - T 1	Download installation	Reset.	S 71	0.257		
Well ID U3-4D U3-3 U3-C1 MW-46 U3-T1 U3-T2	Download installation	Reset.	S 71	0.257		
Well ID U3-40 U3-3 U3-C1 MW-46 U3-T1 U3-T2 U3-45	Download installation	Reset.	S 71	0.257		
Well ID U3-4D U3-3 U3-C1 MW-46 U3-T1 U3-T2 U3-45	Download installation	Reset.	S 71	0.257		
Well ID U3-4D U3-3 U3-C1 MW-46 U3-T1 U3-T2 U3-45	Download installation	Reset.	S 71	0.257		
Well ID U3-40 U3-3 U3-C1 MW-46 U3-T1 U3-T2 U3-45	Download installation	Reset.	S 71	e 0.257		
Well ID U3-4D U3-3 U3-C1 MW-46 U3-T1 U3-T2 U3-45	Download installation	Reset.	S 71	e 0.257		
Well ID U3-4D U3-3 U3-C1 MW-46 J3-T1 J3-T2 J3-45	Download installation	Reset.	S 71	e 0.257		
Well ID U3-4D U3-3 U3-C1 MW-46 U3-T1 U3-T2 U3-45	Download Installation	Reset.	Difference ut and	2.1 2.1		
Well ID U3-4D U3-3 U3-C1 MW-46 J3-T1 J3-T2 J3-45	Download Installation	Resat. Pulledo	S 71	2.1 2.1		Follow-u Required

_				GZA FI	ELD ACTIVITIES SH	EET			
	Project: Client:	Enterny Nuc	Groundwater lear NorthEas	r Sampling Program		Date: GZA Engineers:	2) 1 Migu	el Britos	_
	Site: Location:	Buchanan, N	1Y	02			Ange	ela Altieri	
	Project #:	01.0017869.	.91				~1.ge	id Alleri	_
L	1								_
	GZA Engineer:	Migue	el Britos]	Angel	a Altieri	Weather:	dy 50's	2
	Time Arrived on Site:	070	00				PCIOO	9	
	Time Left Site:	15	00						
				- 0					
				WELL	SAMPLING ACTIVITIE	8			
					container type	Pasimettes		container type	٦
	Well ID		ination REL, CAP, etc.)	Quantity/ Volume	(voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	(vos, amber, poly, glass)	1
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				TRANSDUCER DO	OWNLOADING AND INS	TALLATIONS			_
		ACTIVIT	Y (check)					Follow-up	7
	Well ID	Download	Installation		Special N	otes/Issues/Observations		Required?	
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	MW-55-24	V	V						1
	35	V,							+
	4 4 54	~							+
	MW-33	V		- k 0 T	1 +	7 -	1		4
	MW-34			Unable to	check Di	W. Too much	1011000		4
	MW-35	/	/	Some pro	blem as 31	1. Estimate !	ITW to re	set.	1
	MW-111	/				<u> </u>			1
	MW- 52-11	/	/						
	MW-52-18	/							
	1 1 48								1
	64	-							1
		/							1
	118								1
	127	7							7
	181	V	MEE	TINGS, SPECIAL ACTI	VITIES, NOTABLE EVEN	ITS, DELAYS, NOTES			
									7
1	1'ST Quar	5		Livis P	rea				
-	- Juan		- pro	2					
- 1									

	Project: Client:	Radiological Entergy Nuc	Groundwater lear NorthEas		ELD ACTIVITIES SH	Date:	2/12	08		
	Site: Location: Project #:	Buchanan, N 01.0017869.	NT ENERGY IY 91	Sampling Program t CENTER		GZA Engineers:		Miguel Britos Angela Altieri		
	GZA Engineer:	- No.	l Britos		Angel	a Altieri	Weather:	dy, wind	14	
	Firme Left Site:	150					P. cloud	40's	1	
				WELL	SAMPLING ACTIVITIE					
	Well ID	Desig (IPEC, NRC, F	nation REL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.	Quantity/ Volume	container type (vos, amber, po- glass)	ily,	
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ſ	Well ID	ACTIVITY Download	Y (check)			otes/Issues/Observations		Follow-t		
ŀ	WILL 43.62								_	
ľ	MUI - 43 - 28	~								
t	MW-41-63	1		(Run of	- water	going into	wells			
	MW-41-40	/) "	-	<u> </u>			_	
F	Mu)-45-42	-								
1	MW-43-61	V				Mills				
-	4W-44-67	V								
	MW-39 all	/								
	MW-65-48	V								
1	WM-62-80	V								
ŀ										
_				TINGE COECIAL ACT	VITIES, NOTABLE EVE	TE DEL AVE MOTES			_	
			MEE	IINGS, SPECIAL ACTI	TITLE, INCIABLE EVE	tio, been o noted			\neg	
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				GZA FI	ELD ACTIVITIES SH	EET		1-	
Project: Client: Site: Location: Project #:	Radiological Groundwater Sampling Program Entergy Nuclear NorthEast INDIAN POINT ENERGY CENTER Buchanan, NY 01.0017869.91					Date: J/13/09 GZA Engineers: Miguel Britos Angela Altieri			<u>'</u>
GZA Engineer: Time Arrived onSite: Time Left Site:	Migue 07 C				Ange	la Altieri	Weather: Sunny	40'5	\$
				VAMES I	SAMPLING ACTIVITIE				
Well ID		nation REL, CAP, etc.)	Quantity/ V		container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc	Quantity/ Volume	(vos, ar	ainer type mber, poly, glass)
			TRANSD	UCER DO	OWNLOADING AND INS	TALLATIONS			
Well ID	ACTIVIT Download	Y (check)				otes/issues/Observations			Follow-up Required?
MW-31	1		All	3	levels				
MW-32	/		AII	7	levels				
MW-47-56	/	/							
Mw-47-80	1								
MW-56-53	/	/,							
MW-56-83	/	/							
MW-53-82	/					77			
MW-53-120	V								
MW-42-49	/								
MW-42-78		/							
									1
L									
MEETINGS, SPECIAL ACTIVITIES, NOTABLE EVENTS, DELAYS, NOTES									



APPENDIX E: POST-Q1 2009 MID-QUARTER SAMPLING DATA SHEETS

roject: llent: lte: ocation: roject #:	Radiological Groundwater Sampling Program Entergy Nuclear NorthEast INDIAN POINT ENERGY CENTER Buchanan, NY 01.0017869.91				Date: GZA Engineers:	Migu	3)1609 Miguei Britos Angela Attieri		
ZA Engineer: ime Arrived onSite: ime Left Site:	Miguel Britos 0700 1500		Angel	Angela Altieri		1y 50°F			
			WELL	SAMPLING ACTIVITIES	8				
Well ID	Designation (IPEC, NRC, REL, CAP, etc.)		Quantity/ Volume	container typs (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP	, etc.) Quantity/ Volume	container type (voa, amber, poly glass)		
MW-42-49 1W-53-120	(016)	IPEC	2 L.	poly) WID @	VARTER SA	MPLING		
-									
			TRANSDUCER DO	SHI DIA DINDAOJIN	TALLATIONS				
Well ID	ACTIVIT Download	Y (check)		Special N	otes/Issues/Observation	18	Follow-up Required		
			TAME ERECIAL ACTI	VITIES, NOTABLE EVE	THE DELAYS MOTES				
				THE REST OF THE PART OF PARTY.	THE DELATE WILES				

			GZA FI	ELD ACTIVITIES SH	EET					
Project: Client: Site: Location: Project #:	Radiological Groundwater Sampling Program Entergy Nuclear NorthEast INDIAN POINT ENERGY CENTER Buchanan, NY 01.0017869.91				Date: GZA Engineers:			3 1.7 C S Miguel Britos Angela Athen		
GZA Engineer: Time Arrived onSite: Time Left Site:	Miguel 6	0		Ange	a Atter		Weather: M らいか	ny s	50's	
			WELL	SAMPLING ACTIVITIE	6			~~~~		
Well ID	Designa (IPEC, NRC, RE	ation EL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designati (IPEC, NRC, REL,	CAP, etc.)	Quantity/ Volum	e (voa, a	siner type mber, poly glass)	
MW-66-21 (c MW-67-173	(008) (08) I	PEC.	2 L.	poly	LMID	QUA	RTER S	AMPL	LING	
)										
			TRANSDUCER DO	OWNLOADING AND INS	TALLATIONS					
Well ID	ACTIVITY Download	(check) Installation		Special N	otes/Issues/Observ	rations			Follow-up Required?	

		MEE	TINGS, SPECIAL ACT	IVITIES, NOTABLE EVE	NTS, DELAYS, NOT	ES				
}										

Project: Client: Site: Location: Project #;	Radiological Groundwater Sampling Program Entergy Nuclear NorthEast INDIAN POINT ENERGY CENTER Buchanan, NY 01.0017869.91				Date: GZA Engineers:	Miguel Britos Angela Attien		
GZA Engineer: Time Arrived onSite: Time Left Site:		Britos		Angel	a Aitien	Weather: Sunny	60°F	
			WELL	SAMPLING ACTIVITIE	<u> </u>			
Well ID	Desig (IPEC, NRC, F	nation IEL, CAP, etc.)	Quantity/ Volume	container type (voa, amber, poly, glass)	Designation (IPEC, NRC, REL, CAP, etc.)	Quantity/ Volume	container type (vos, amber, pol glass)	
MW-50-66(NI-CSS () :	tpec "	2 L "	poly				
	<u> </u>							
			TRANSDUCER D	BNI DNA DNICAOJNWC	TALLATIONS			
Well ID	Download	Y (check) Installation		Special N	otes/issues/Observations		Follow-u Required	
		MEE	TINGS, SPECIAL ACT	IVITIES, NOTABLE EVE	NTS, DELAYS, NOTES			



APPENDIX F: DOSE CALCULATIONS

Facility Groundwater Flux Calculation



Site Indian Point
Job No. 17869.91

Prepared By: JAS
Reviewed By: mjb

Parameter Values:

[Totals									
		Total Catchment	Total Improved Zone							
	Zone (ft^2)		(ft^2)	Recharge (ft/yr)	Precipitation (ft/yr)					
	3,969,765		1,355,080	0.87	3.02					
year				Surface Area						
2009				Unit 3 North	Unit 3 South					
2000	Northern Clean Zone	Unit 2 North Improved	Unit 1/2 Improved	Improved Zone	Improved Zone	Southern Clean				
	Improved (ft^2)	Zone (ft^2)	Zone (ft^2)	(ft^2)	(ft^2)	Improved Zone (ft^2)				
	0	136,704	374,234	309,497	321,290	213,354				
	Northern Clean			Unit 3 North	Unit 3 South					
	Unimproved Zone	Unit 2 North Unimproved	Unit 1/2 Unimproved	Unimproved Zone	Unimproved Zone	Southern Clean Zone				
	(ft^2)	Zone (ft^2)	Zone (ft^2)	(ft^2)	(ft^2)	Unimproved (ft^2)				
	111,863	217,667	438,221	323,116	268,862	585,600				
	Discounted Area	Discounted Area Within	Discounted Area	Discounted Area	Discounted Area	Discounted Area Within				
	Within Zone	Zone	Within Zone	Within Zone	Within Zone	Zone				
	44,831 0		324,509	137,938	17,730	144,347				
				Unit 3 North						
	Northern Clean Zone	Unit 2 North Catchment	Unit 1/2 Catchment	Catchment Zone	Unit 3 South Zone					
	Catchment (ft^2)	Zone (ft^2)	Zone (ft^2)	(ft^2)	(ft^2)	(ft^2)				
	156,694	354,371	1,136,965	770,550	607,882	943,302				
				Activity (pCi/L)						
			Groundwater							
	Northern Clean Zone Catchment	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South Zone	Southern Clean Zone				
	Gatominont	0 2.1.0.1	J.II. 1/2	Onic o reorem	Onic o ocalii zono	Godinom Groun Zono				
ne ne ore										
Upper Zone Before Canal	450	= 40	0.570	000	004	070				
	150	546	2,570	328	824	276				
ver ore ore										
Lower Zone Before Canal	450	454	0.040	4 474	400	200				
	150	151	2,810	1,171	439	220				
	Northern Clean Zone	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South Zone	Southern Clean Zone				
a re										
Upper Zone After Canal										
ס א פ ט	150	198	3,101	376	824	276				
er er al										
Lower Zone After Canal	450	500	4.005	400	400	000				
7 7 7 0	150	582	1,095	483	439	220				



Site Indian Point
Job No. 17869.91

Prepared By: JAS
Reviewed By: mjb

Stormwater Discharging to Canal (pCi/L)								
Storm Water for Northern Clean Zone	Storm Water for Unit 2 North	Storm Water for Unit 1/2	Storm Water for Unit 3 North	Storm Water for Unit 3 South	Storm Water for Southern Clean Zone			
	1,148		0	0	0			
NA	Avg MH-4a	NA	Avg CB-14 and CB-34	Avg U3-CB-B8	Avg D1, CB3, E6, & E10			
		Stormwater I	Discharging to Rive	r (pCi/L)				
Storm Water for Northern Clean Zone	Storm Water for Unit 2 North	Storm Water for Unit 1/2	Storm Water for Unit 3 North	Storm Water for Unit 3 South	Storm Water for Southern Clean Zone			
	0	0	683		598			
NA	Avg. MH-1 and MH-12	Avg MH-14	Avg CB-15	NA	Avg E13,CB-C2			

Potential Water Received by Storm Drain System

=(Improved Area) x Precipitation

Northern Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	Southern Clean Zone	Units
0	412,846	1,130,188	934,681	970,294	644,331	ft^3/yr
0	1,131	3,096	2,561	2,658	1,765	ft^3/day
0.00	5.88	16.09	13.30	13.81	9.17	GPM
0	11,690,498	32,003,363	26,467,218	27,475,679	18,245,408	L/Yr

The total amount of water available to be received by the storm system is computed as the combined area of buildings and paved areas in the catchment multiplied by the annual precipitation rate. Note this conservatively assumes that the amount of water lost to the atmosphere or other sinks after precipitation has fallen on paved or built up surfaces is zero.

Water Directly Recharged to Aquifer from Precipitation

=Unimproved Area x Recharge

Northern Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	Southern Clean Zone	Units
97,677	190,063	382,646	282,138	234,765	511,335	ft^3/yr
268	521	1,048	773	643	1,401	ft^3/day
1.39	2.71	5.45	4.02	3.34	7.28	GPM
2,765,899	5,381,977	10,835,334	7,989,263	6,647,817	14,479,386	L/Yr

Note that this calculation reflects recharge to the aquifer in non-paved areas. The Recharge value listed above and used in this calculation reflects only that portion of precipitation that actually recharges the aquifer.



Site Indian Point
Job No. 17869.91

Prepared By: JAS
Reviewed By: mjb

Water Recharged to Aquifer (Direct Recharge Plus Storm Water Leakage Minus Building Drain Removal)

=(Direct Recharge + X% Water Received by Storm System) - (Y% x Water Removed by Building Drains)

Total Water Discharged to Aquifer

			[Unit 1/2 Area	[Unit 3 North Area			
Ver	[Northern Clean Area		Catchment + (30%	Catchment + (50%	[Unit 3 South	[Southern Clean Zone	
o o	Catchment + (0%	[Unit 2 North + (50% Storm	Storm Drain Water)]-	Storm Drain	Area + (1% Storm	Area + (1% Storm Drain	
ne L	Storm Drain Water)]	Drain Water)]-[5gpm]	[7.5 gpm]	Water)]-[7.5gpm]	Drain Water)]	Water)]	Units
an Zo	97.677	45.173	194.734	222,510	244.468	517,778	ft A 2 /vr
"N	91,011	43,173	194,734	222,510	244,400	317,776	it's/yi
per a	268	-1 -	534	610	,	- , -	ft^3/day
Jpper a	- 1-	124	534	,	,	1,419	ft^3/day

Groundwater Discharged to Canal

=Water Recharged to Aquifer x X% flowing to Canal

d Lower	Northern Clean Area Catchment x 0%	Unit 2 North x 34.6%	Unit 1/2 Area Catchment 22.6%	Unit 3 North Area Catchment x 56.3%		Southern Clean Zone Area x 0%	Units
anc	0	15,630	44,010	125,273	180,662	0	ft^3/yr
er.	0	43	121	343	495	0	ft^3/day
ďď	0.00	0.22	0.63	1.78	2.57	0.00	GPM
ח	0	442,591	1,246,220	3,547,339	5,115,782	0	L/Yr

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Site Indian Point
Job No. 17869.91

Prepared By: JAS
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Groundwater Discharged to River

=Water Recharged to Aquifer x X% flowing to River x Y% Flowing in Appropriate Vertical Zone

Zone	Northern Clean Area Catchment x 100% x 33.5%	Unit 2 North x 65.4% x 21.7%	Unit 1/2 Area Catchment 77.4% x 35.9%	Unit 3 North Area Catchment x 43.7% x 28.7%	Unit 3 South Area x 26.1% x 34.4%	Southern Clean Zone Area x 100% x 51.8%	Units
er	32,722	6,411	54,110	27,907	21,949	268,209	ft^3/yr
dd	90	18	148	76	60	735	ft^3/day
D	0.47	0.09	0.77	0.40	0.31	3.82	GPM
	926,576	181,536	1,532,223	790,237	621,536	7,594,833	L/Yr
	Northern Clean Area		Unit 1/2 Area	Unit 3 North Area			
e e	Catchment x 100% x	Unit 2 North x 65.4% x	Catchment 77.4% x	Catchment x 43.7%	Unit 3 South Area	Southern Clean Zone	
Zor	66.5%	78.3%	64.1%	x 71.3%	x 26.1% x 65.6%	Area x 100% x 48.2%	Units
er ?	64,955	23,132	96,614	69,330	41,857	249,569	ft^3/yr
×	178	63	265	190	115	684	ft^3/day
ا نے اا	0.92	0.33	1.38	0.99	0.60	3.55	GPM
_							

Water Remaining in Storm Drains and Discharged to Canal

=Storm Drain Water x X% Not Leaking to Groundwater and Not Discharging to River

Northern Clean Area Catchment (0% Storm Drain Water)	Unit 2 North (45% Unit 2 North and 30% of Unit 1/2 Storm Drain Water). Plus 5 gpm (351k cf/yr) from U2 footing drain.	Unit 1/2 Area Catchment (0% Storm Drain Water)	Unit 3 North Area Catchment (4% Unit 3 North Storm Drain Water)	(4% Unit 3 North and 47% Unit 3	Southern Clean Zone Area (30% Unit 1/2, 32% Unit 3 North, 47% Unit 3 South, and 94% Southern Clean Zone Storm Drain Water)	Units
0	875,837	0	37,387	493,426	1,699,863	ft^3/yr
0	2,400	0	102	1,352	4,657	ft^3/day
0	12.47	0.00	0.53	7.02	24.19	GPM
0	24,802,148	0	1,058,689	13,972,258	48,134,772	L/Yr

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Site Indian Point
Job No. 17869.91

Prepared By: JAS
Reviewed By: mjb

Water Remaining in Storm Drains and Discharged to River

Northern Clean Area Catchment (0% Storm Drain Water)	Unit 2 North (5% Storm Drain Water)	Unit 1/2 Area Catchment (10% Storm Drain Water)	Unit 3 North Area Catchment (10% Storm Drain Water)	(5% Storm Drain	Southern Clean Zone Area (5% Storm Drain Water)	Units
0	20,642	113,019	93,468	48,515	32,217	ft^3/yr
0	57	310	256	133	88	ft^3/day
0	0.29	1.61	1.33	0.69	0.46	GPM
0	584,525	3,200,336	2,646,722	1,373,784	912,270	L/Yr

Flux Calculations

Conceptual Model: Migration Pathway Summary

	Conceptual model: migration ratinary cummary								
	Northern Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	Southern Clean Zone			
GW	100% Upper and Lower Zone To River	68.6% Upper Zone and Lower Zone Flow To River. 31.4% Upper Zone and Lower Zone Flow to Canal	73.4% Upper Zone and Lower Zone To River. 26.6% Upper Zone and Lower Zone to Canal	41.2% Upper Zone and Lower Zone To River. 58.8% Upper Zone and Lower Zone to Canal	To River 73.9%	100% Upper and Lower Zone To River			
sw	NA	To Canal (Storm Water Considered Clean; Estimated at 5.5 GPM) and To River (5% Storm Water)	To Canal (60% Storm Water) and To River (10% Storm Water)	To Canal (40% Storm Water) and To River (10% Storm Water)	To Canal (94% Storm Water) and To River (5% Storm Water)	To Canal (94% Storm Water) and To River (5% Storm Water)			

Flux (pCi/Yr)

		11000 (000,117)					
	North Clean Area	Unit 2 North	Unit 1/2	Unit 3 North	Unit 3 South	South Clean Zone	Total
GW to River- Upper Zone	1.39E+08	3.59E+07	4.75E+09	2.97E+08	5.12E+08	2.09E+09	7.83E+09
GW to River- Lower Zone	2.76E+08	3.81E+08	3.00E+09	9.48E+08	5.20E+08	1.55E+09	6.67E+09
GW to Canal	0.00E+00	2.42E+08	3.20E+09	1.16E+09	4.22E+09	0.00E+00	8.83E+09
SW to Canal	NA	2.85E+10	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E+10
SW to River	NA	0.00E+00	0.00E+00	1.81E+09	0.00E+00	5.45E+08	2.35E+09

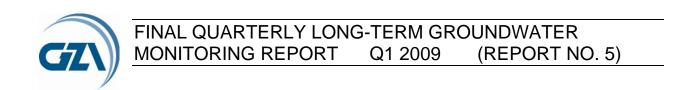
Curies/Yr ==> 0.05

Notes:

The recharge rate used herein, 0.87 ft/yr (10 inches/year), is within the range of values discussed in the USGS modeling report. The reported recharge ranged from 3.6 inches/year to 7.5 inches/year for a till to 20 inches per year for coarse grained glacially stratified deposits. A precipitation value of 2.92ft/yr, (a 10 year average measured at the Facility meteorological station) was also used in the computations. The catchment area was defined using an AutoCAD topo map for the Site and surrounding area. The catchment was defined by starting at the area marked "line of water grant" and tracking east, away from the River, to define portions of the land surface contributing water to the selected discharge zone. Calculations assume that run-off or overland flow in unimproved areas of the Site is negligible, there are no changes in storage and the Hudson River is a gaining stream.

1. USGS. Water Use, Ground-Water Recharge and Availability, and Quality of Water in the Greenwich Area, Fairfield County, Connecticut and Westchester County, New York, 2000-2002

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APPENDIX G: UNIT 2 TRITIUM PLUME TREND ANALYSES

TABLE G1 MANN-KENDALL TREND EVALUATION SUMMARY TRITIUM IN GROUNDWATER NEAR UNIT 2 INDIAN POINT ENERGY CENTER BUCHANAN, NY

		Number of Times	Minimum Tritium	Maximum Tritium	Mann- Kendall	Normalized		Trend at 95%
	Number of	below	Activity	Activity	Statistic	Test Statistic		Level of
Well ID	Data Points	MDC	(pCi/L)	(pCi/L)	(S)	(Z)	Probability	Significance
MW-30-69	27	0	7.36E+04	6.01E+05	-118.00	-2.44	0.993	decreasing
MW-30-84	14	0	3.78E+03	1.25E+04	-51.00	-2.74	0.997	decreasing
MW-31-49	25	0	2.98E+02	3.38E+04	-28	-0.63	0.736	no trend
MW-31-63	13	0	5.00E+03	4.06E+04	10	0.55	0.709	no trend
MW-31-85	13	0	3.17E+02	8.34E+03	40	2.38	0.991	increasing
MW-32-59	11	0	4.13E+02	4.44E+04	-36	-2.40	0.992	decreasing
MW-32-85	11	0	5.42E+03	1.26E+04	-7	-0.47	0.680	no trend
MW-32-131	6	1	1.29E+02	1.13E+04	2	NA	0.575	no trend
MW-32-149	9	0	4.93E+02	1.05E+04	-20	NA	0.976	decreasing
MW-32-173	7	0	7.56E+02	5.89E+03	-19	NA	0.997	decreasing
MW-32-190	10	0	1.72E+03	1.13E+04	-17	-1.43	0.924	no trend
MW-33	21	0	2.30E+04	2.64E+05	-66	-1.96	0.975	decreasing
MW-34	18	0	1.05E+04	2.76E+05	-19	-0.68	0.752	no trend
MW-35	18	0	1.04E+03	1.19E+05	-59	-2.20	0.986	decreasing
MW-36-24	11	2	1.54E+02	3.42E+04	-10	-0.70	0.758	no trend
MW-36-52	11	0	6.79E+03	2.68E+04	-35	-2.65	0.996	decreasing
MW-37-22	13	0	2.26E+03	3.49E+04	-40	-2.38	0.991	decreasing
MW-37-32	13	0	2.49E+03	3.01E+04	-54	-3.23	0.999	decreasing
MW-37-40	12	0	4.91E+03	1.70E+04	-52	-3.50	1.000	decreasing
MW-37-57	13	0	4.27E+03	4.48E+04	-52	-3.11	0.999	decreasing
MW-42-49	13	0	1.12E+03	7.22E+04	2	0.06	0.524	no trend
MW-42-78	8	0	3.46E+02	1.28E+03	-12	NA	0.913	no trend
MW-49-26	15	0	3.10E+03	1.54E+04	-85	-4.16	1.000	decreasing
MW-49-42	15	0	2.25E+03	1.13E+04	-91	-4.45	1.000	decreasing
MW-49-65	15	0	1.26E+03	5.76E+03	-77	-3.76	1.000	decreasing
MW-50-42	16	4	1.01E+02	9.75E+03	-57	-2.52	0.994	decreasing
MW-50-66	19	0	2.08E+03	1.08E+04	-147	-5.11	1.000	decreasing
MW-53-82	8	0	4.54E+02	1.32E+04	4	NA	0.645	no trend
MW-53-120	13	0	4.42E+03	9.61E+03	-42	-2.50	0.994	decreasing
MW-55-24	9	0	7.82E+02	3.08E+03	-24	NA	0.992	decreasing
MW-55-35	8	0	8.53E+02	9.04E+03	-20	NA	0.991	decreasing
MW-55-54	9	0	5.96E+03	1.31E+04	-22	NA	0.986	decreasing
MW-111	29	0	6.81E+03	5.78E+05	-111	-2.06	0.980	decreasing

 $Notes: \ Calculations \ based \ on \ Mann-Kendall \ trend \ evaluations \ as \ presented \ in \ U.S. \ EPA \ Practical \ Methods \ for \ Data \ Analysis, \ U.S. \ EPA \ QA/G-9 \ QA00 \ UPDATE, \ July \ 2000, \ Section \ 4.3.4$

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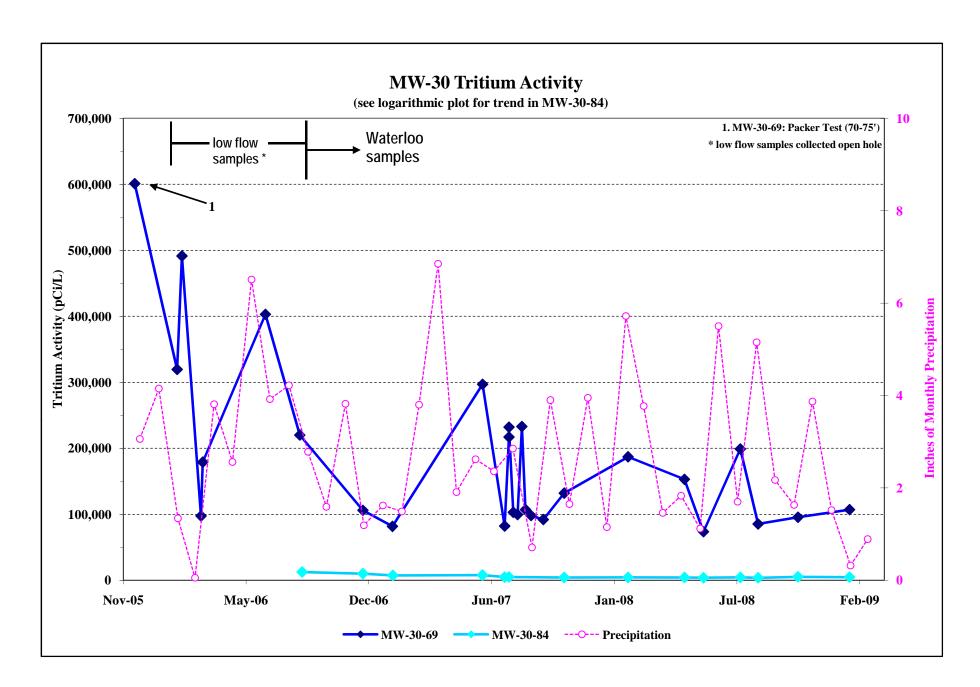


FIGURE G1

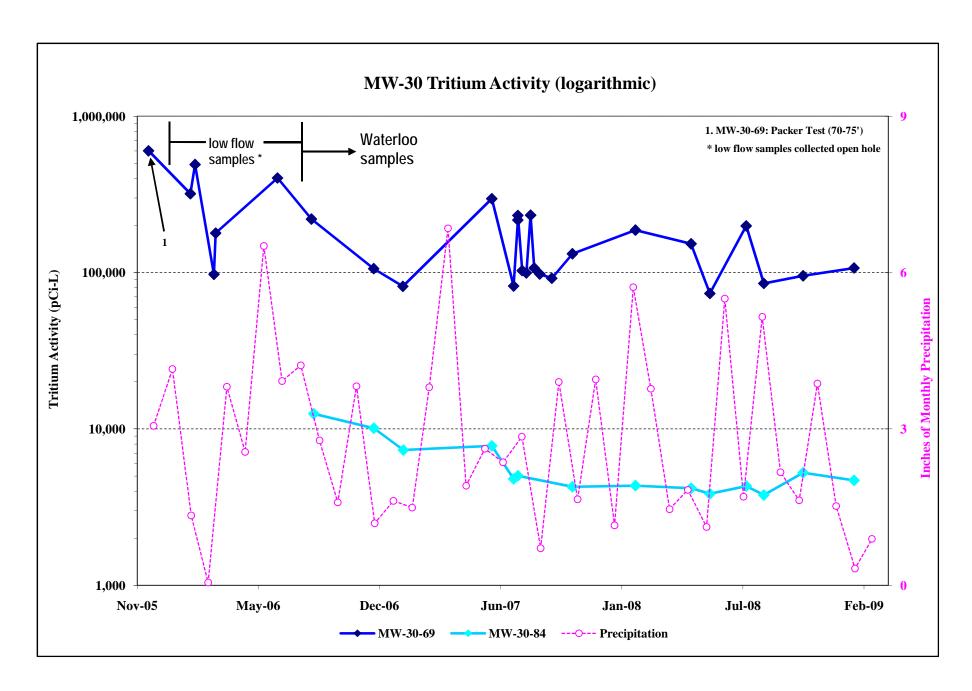


FIGURE G1a

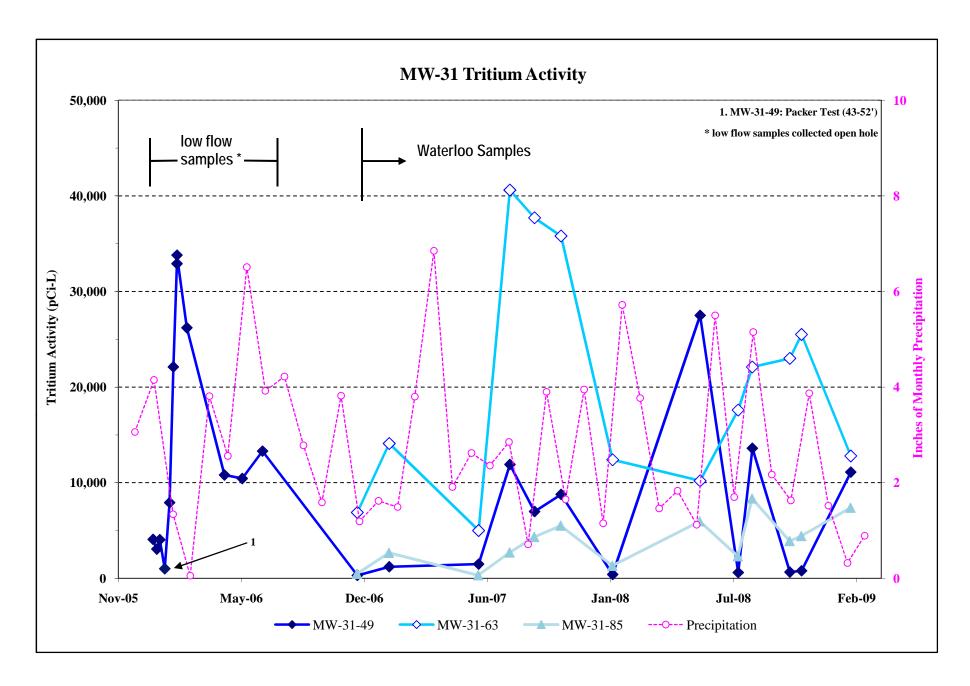


FIGURE G2

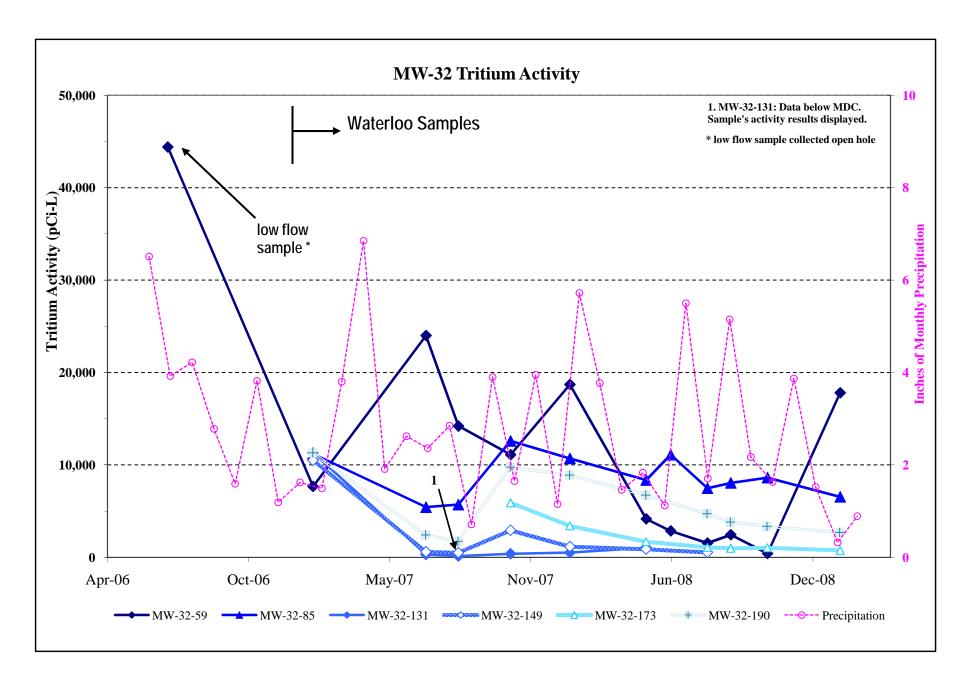


FIGURE G3

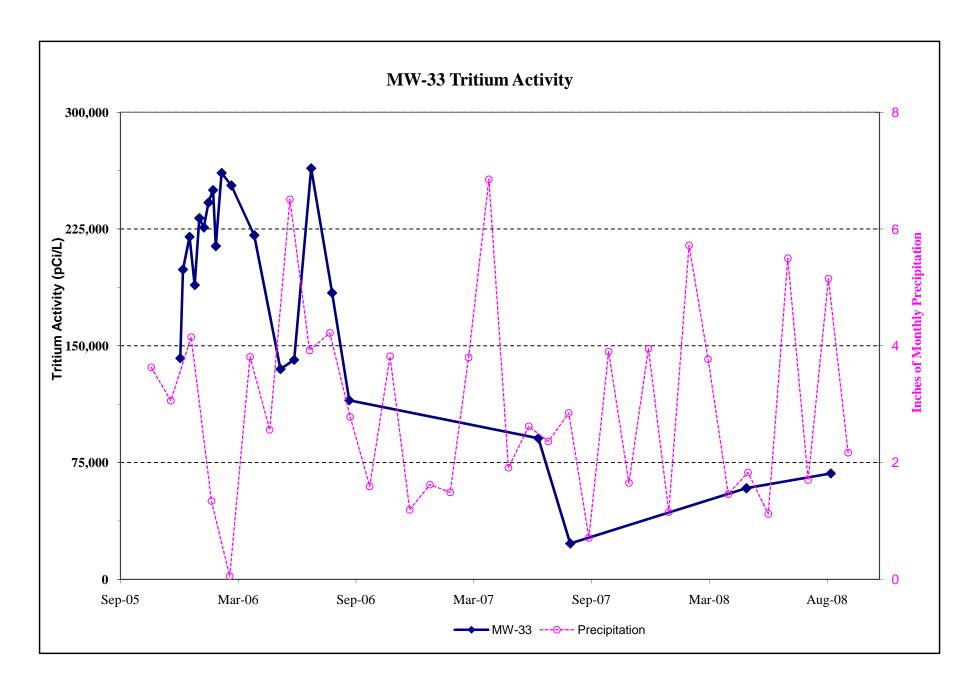


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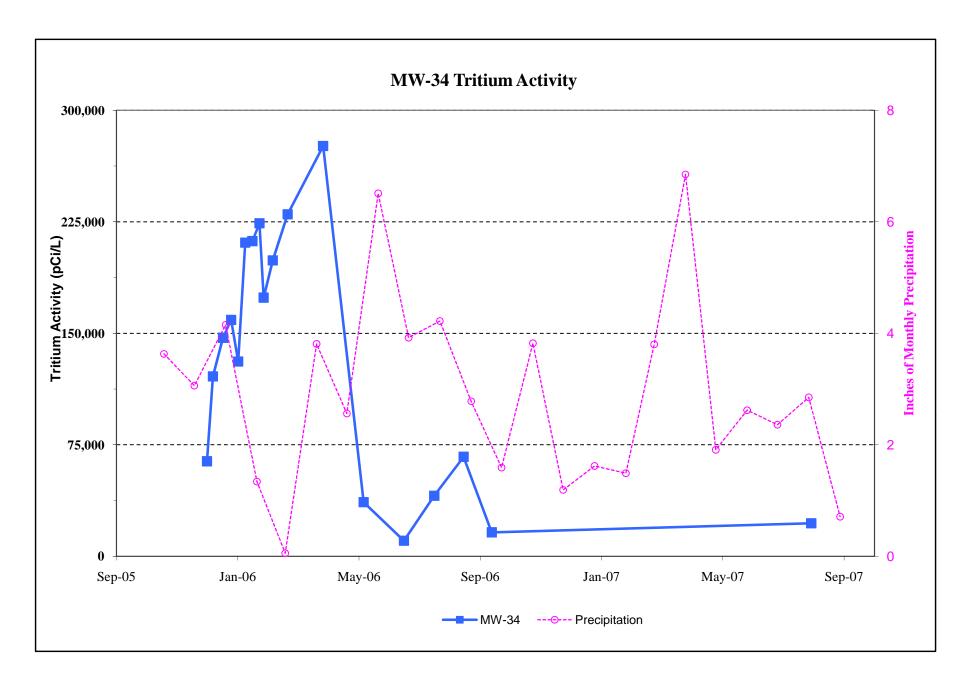


FIGURE G5

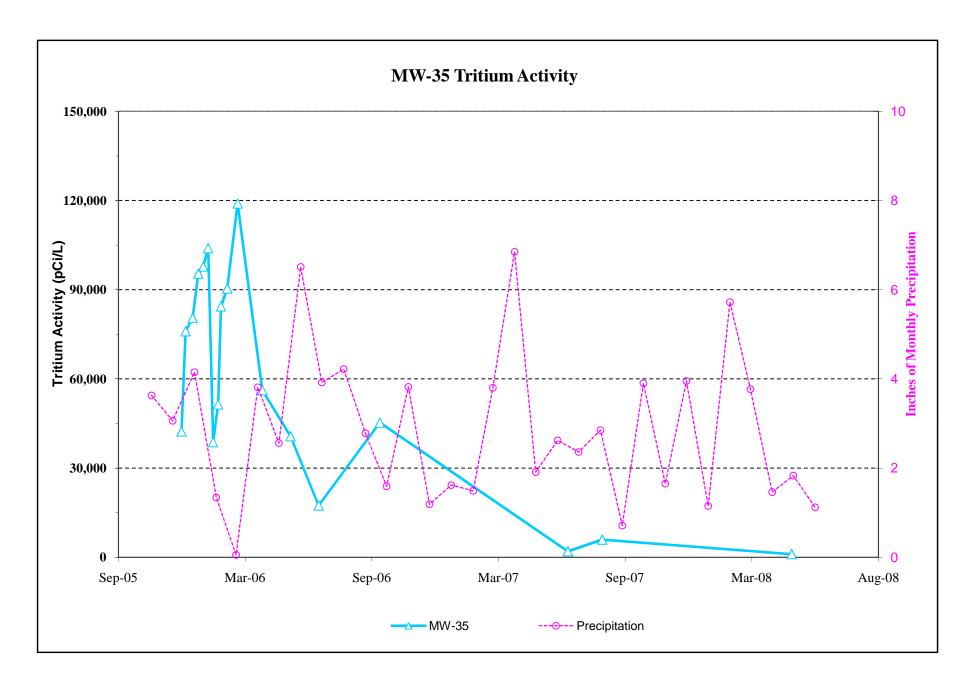


FIGURE G6

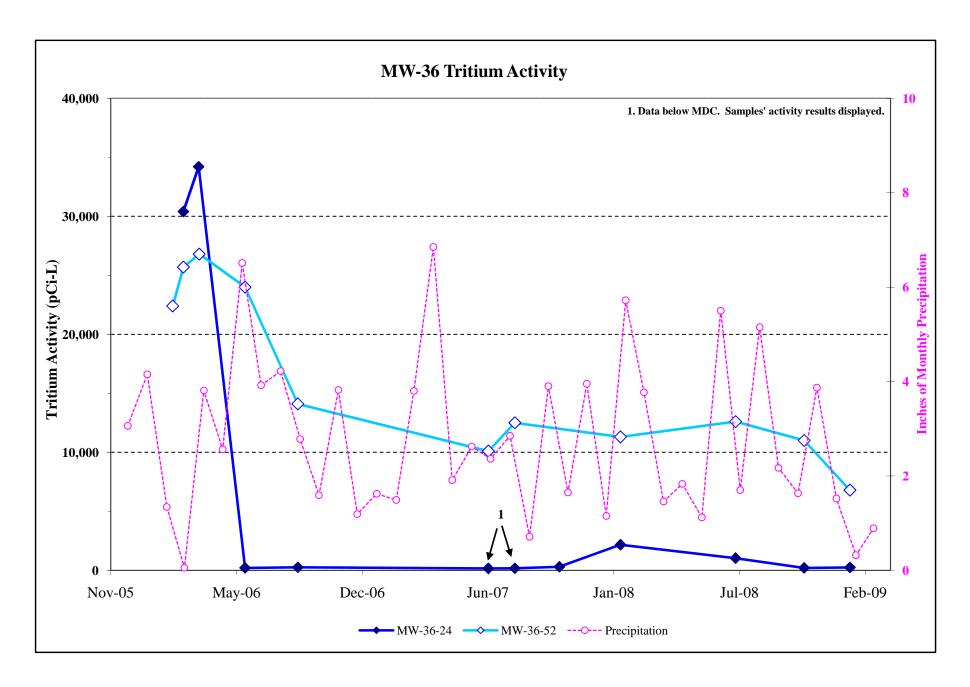


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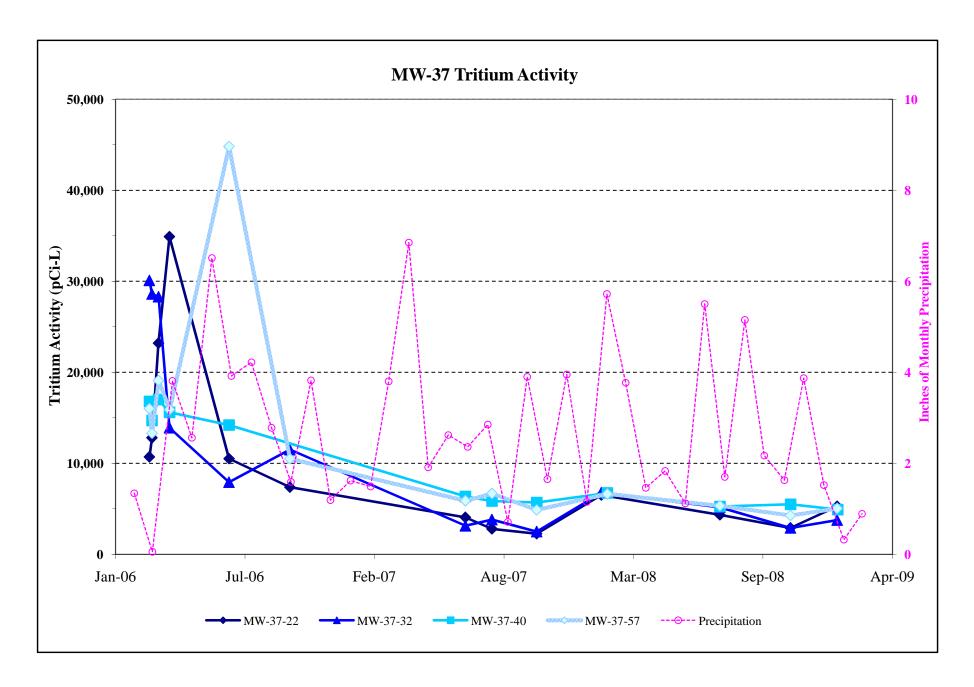


FIGURE G8

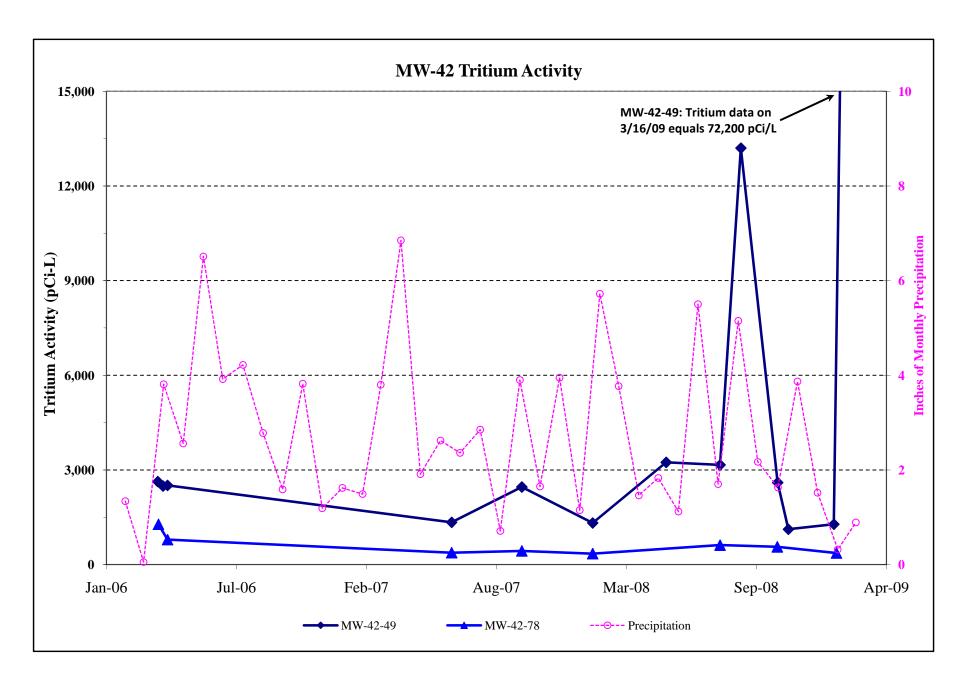


FIGURE G9

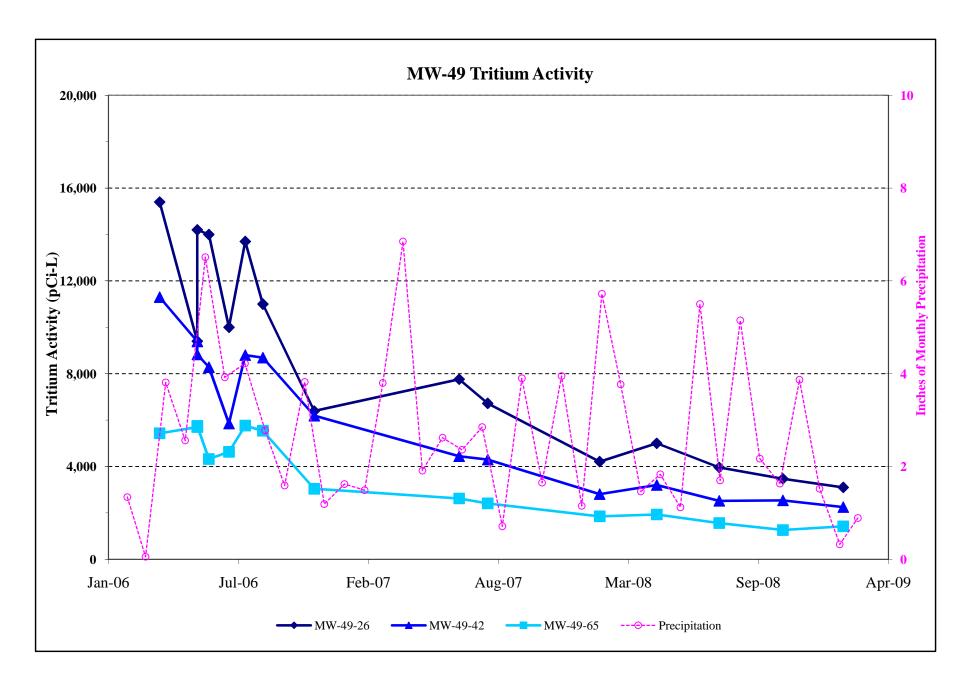


FIGURE G10

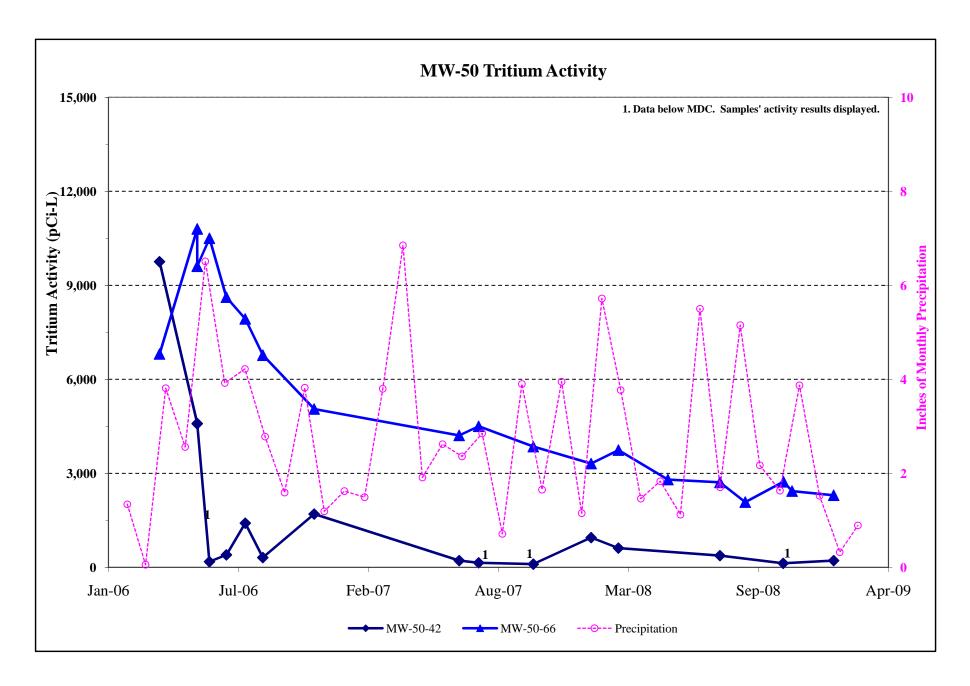


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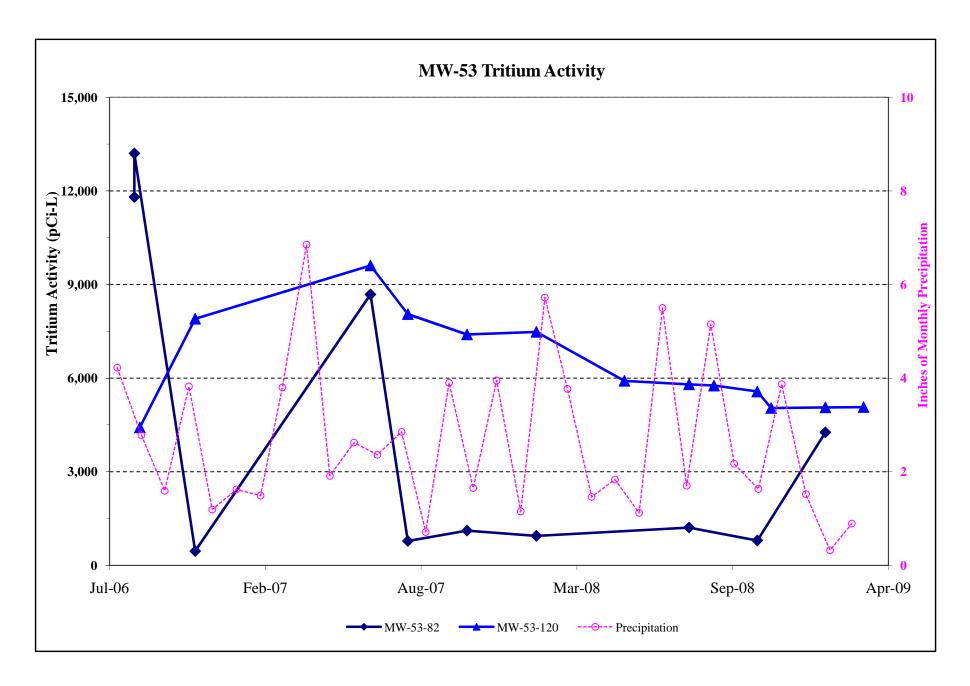


FIGURE G12

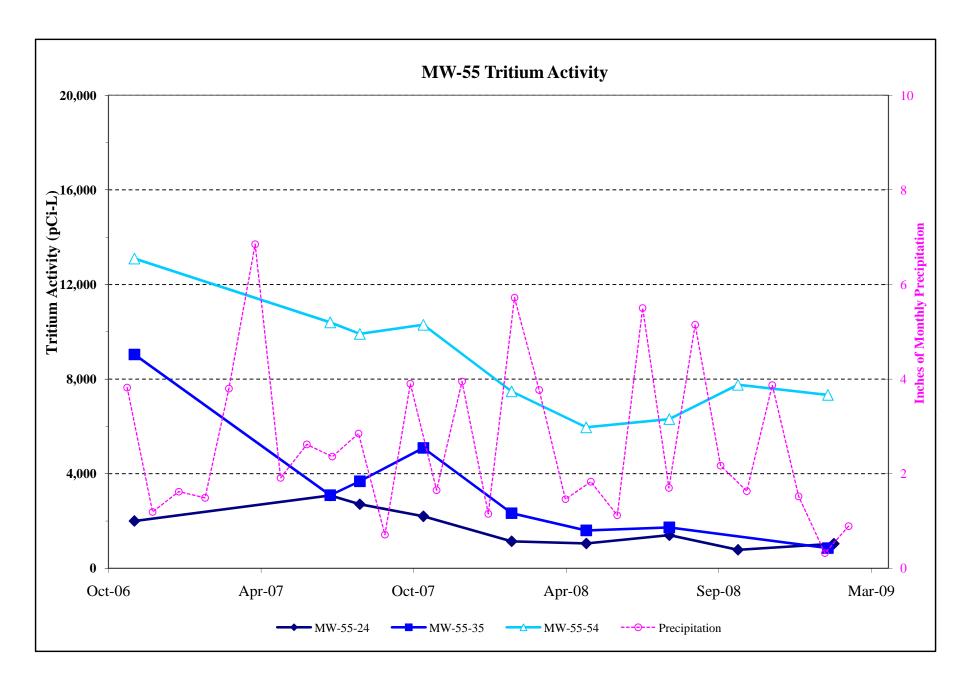


FIGURE G13

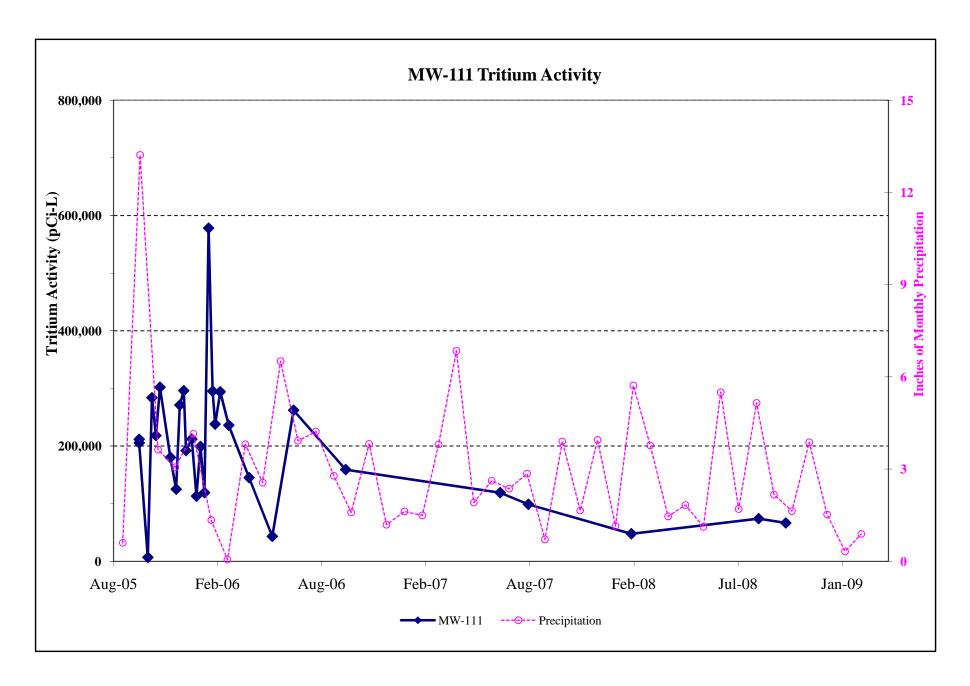
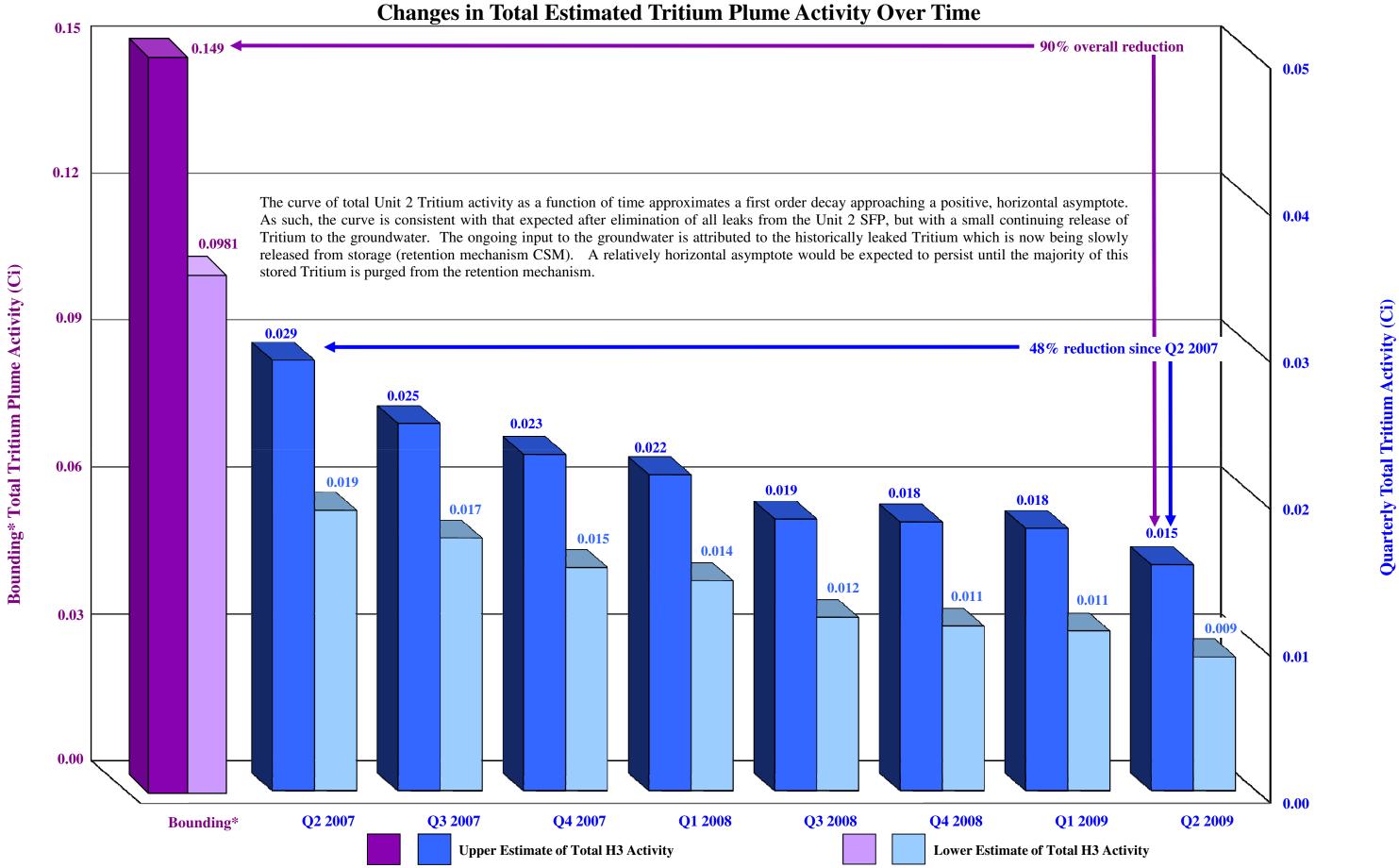


FIGURE G14



Note: Lower estimate is based on a porosity of 0.0003 which was derived from a pumping test conducted in 2007. The Q2 2007 to Q1 2009 Tritium plume activity estimates are each based on Tritium levels measured in the groundwater monitoring installations at individual, quarterly "snapshots" in time.

^{*}The bounding activity estimate, however, encompasses a longer period of time, and is focused on the Tritium levels existing during the earliest portions of the groundwater investigation. During this period of time, before termination of all the identified SFP leaks, Tritium concentrations were at their highest levels, but the network of monitoring installations was still being installed. Therefore, measurements made at a multiple times were required to capture early data covering the full extent of the Tritium plume; primarily over the period from Nov 20005 through Nov 20005 through Nov 20006 (a smaller percentage of the Tritium plume activity estimate, the highest value recorded for each monitoring location during this time period was used in the analysis. For further discussion see Sections 6.0, 7.0 and 8.0 of the Final Hydrogeologic Site Investigation Report, prepared by GZA and dated January 7, 2008.