Experiment - 6

Evel out the total alkalinity and wholide sample Experiment

e pette, buretto sopol, beaker, wind flock, and clomp Appolator-

Water sample, potressium ahromatelk, Or 04), I we niterate (Ag No3), methyl obruge & Sulphatic aid (1,504). Henrals-

Chemical Eyudios- 603+24+ -> (Uz + Hz 0 H103+H+ -> 102+H20

it + Ay + - Ayll (with ppt)

19 0, + 2 Ag + -> Ag 19 04 (Brick hed ppt)

StheduleIN SONAT SONAT INTO PRINCIPAL

Yellow

Indicator - methy arrange

End Point - yolvone to light pink

	Date
EVI Vo.	Page No.
the state of the s	Experiment-6.
Experiment - Ind	ent in worth sample.
Appalatus-Pipet	te, purette beares, consul plack, burette,
Menisalg- Wutle Silver Sulp	rithat! (Ag Noz), metly orange & we'l siel (H, 50z).
Theory- bladity hydrox til sau ond pol	of coate is due to the phisery of ide werbonates and picorporates of the operation of solium and picorporates of the operation of the content
i us de	these when the solution of
usig metil	gardi a stordard wir. [N/20 H, 50,) ist drug as indicated in the rewry
Lo, + 20	$H^{\dagger} \rightarrow (0, +H, 0)$
H 10, +	$H^{\dagger} \longrightarrow L_{\nu} \uparrow H_{\nu} 0$
OH +H	$^{+}$ \rightarrow $H_{2}0$
	Teacher's Signature Ayush.

Procedure- it Datesment on of total supplies to your House takes = 50 ml.

59 Na	Burette Rea	wry (me)	Habo sug (me)
1	0	6.9	6.4
2	0	6.9	6.9
3	0	6.9	6.4

Mean value of 1750, susid (V2)=6.4 ml
iii) Determination de chloride contents of water transle
Water bomble in a tidaction flock: 10 ml.

59. NO	Burette Ru	ding (ml)	Vol. of N/100 Sy NO3
	Initial	final	
1	O	12.9	12.4
2	0	12.9	12.9
3	0	12.9	12.4

Moon volume of Agroz user v;= 12.41

	Expt. No
	Unlorde watert is estimated by til hating a known belume against a standard situely nitrate Solution (N/100 using polassium bromat as an indicator in the newlow medium.
	M + Agt - Agel (weits ppt) Mo, + 24g+ - Ag, 40, (Brish ged ppt)
	rentral by odding solid carrier carparate In this was, some ration works are next renain settled sot the pottern Ind results are supered in parts per pricion (ppm)
	Procedure - in Determination of total alkalists of trap
ŀ	Worth, rinse and fill the purette with N/20 H, Sa
2	Shougher 50 ml of tap water job in the tishelian black Add 2-3 drops of methyl charge and titante it aggrest N120 Hy 50, till 14 wellows thank from yellow the light pin as an end pa
3.	Note the golune of the solution used and superit
	Teacher's Signature

Kalulations - it shalinto Applying the robundity by 100 000 H2 504 M1 V1 = N2 V2 50 ml of top work (of Mohmality M,) = 2 ml of N Mil V2= 7=6.9 m $N_1 = \frac{N_2 V_2}{50} = \frac{0.05 \times 6.9}{50} = 0.064$

Ey wet of luco = 50

Amount of lato; (gm/L)

= Normality x Eq wet

= 0.0069 x 50 = 0.342

Amount of laloz (mg/1000 ml)

= 0.345 ×1000 ppm

= 345 ppm

Expt. No
tops the moon up the closely actually aciding (xml)
il Dellarisation of whole sample.
I take to me of water sample in a tilgration plask.
2. Add 3-4 drops of K, 140, and tithate against N/100 As NO2 from the party lill the appelence of light Dring had color.
3. Note her John. of the used and grepout the literation at least 5 times and take the mean of the closely be headings (yml)
Observations - Let the solum of N/20 M, So, used = x m! Let the volum of N/100 by No, weed = y m!
Creneral delculations - i. Alkalinity-
Applying to me normality superion.
100 ml of top vale (of naturaliz N.) = xml of N M, 50
$N_1 = N_2 V_2 - 0.05x - x$
Teacher's Signature

Date

1111 Chloride contest Applying is usimably by Top wall Ag NO3 N, V, : N2 V2 to my of top water ray normality N,): y my of M1000 N1: N2V2 = 9 = 0.0124 Ag No3 Sol

EU we of U = 35.5

What do wontent (yor /) = Mountality x Eg wet

= 4 v 35.5 = 0.45795 1000

mobile content (my /1000 ml) = y, x35 5 ppm

= 457,95 ppm

Rebult - Amount on haber whalisty in walk sample 345 ppm. of laco3

Amount of Wholide content in which the

Date
Expt. No
Eq not of lald = 50, Amount of haloz(ym/L) = Neurnality & Ey not.
$= \frac{\chi}{2000} \times 50 = \frac{\chi}{40}$
Amount of lalog (mg/1000 ml) = x 1000 pm
ii Chlorice content -
Applying the solvality ex.
$\frac{1}{N_1 V_1} = \frac{1}{N_2 V_2}$
10 ml og tap water log normality N,)= y ml og N/10. Ag N og Sol
$N_1 = N_2 V_2 - Y$ $V_1 = 1000$
Ey. w.t. of U = 35.5
phloride wenten (ym/L) = Menality x Ey. W
= 1 35.5
the Chloride wentert (my/1000 ml) = y x 35.5 pm
Teacher's Signature

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Results	- Amou	nt of the	otal al	palinity	in w	W.	lapple
	unt of						
						-	
				Teacher's S	ignature	Ayes	angutomasing stocks also mortes from