

## Hydro Geochemistry Of Groundwater Resources

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**Abstract:** The present study is aimed at assessing the water quality index (WQI) for the ground water in summer season. WQI gives quickly assess the any water system. Water samples from thirty bore wells at various locations in Virudhunagar district area were collected and analyzed for Temperature, pH, electrical conductivity (EC), total dissolved solids (TDS), total alkalinity (TA), total hardness (TH), permanent hardness(PHA), temporary hardness (THA), carbonate, bicarbonate,  $\text{Cl}^-$ ,  $\text{SO}_4^{2-}$ ,  $\text{SO}_3^{2-}$ ,  $\text{Ca}^{2+}$ ,  $\text{Mg}^{2+}$ ,  $\text{Na}^+$ ,  $\text{K}^+$ , dissolved oxygen(DO), biological oxygen demand (BOD), chemical oxygen demand (COD) using standard analytical procedure. The WQI for these samples ranges from 877 to 1475 in summer season. The high values of WQI have been formed to be mainly from the higher values of TDS, TA, TH,  $\text{Cl}^-$   $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  in the ground water. Hydrochemical facies of ground water samples have been ascertained by using piper-trilinear diagram which shows that the study areas are of high saline in nature, evidenced by lime nature of soil. The analysis reveals that the ground water of the area needs some degree of treat before consumption.

**Keywords:** Ground water quality, Summer season, Piper-trilinear diagram, Water Quality Index.

### Introduction And Experimental

Hydro geochemical study of ground waters depend on a number of factors including the nature of recharge, hydrologic gradient, and residence time in the aquifer, pollution by anthropogenic activities and rock-water interactions. Water demand has increased over the years, which leads to water scarcity, in many parts of the world. India is now heading towards a groundwater crisis, mainly, due to improper management of water resources and environmental degradation. Little research work is available on ground water quality and water pollution in Tamil Nadu<sup>1-4</sup>. Many towns in South India are facing significant shortage of drinking water supply due to the lack of monsoon rainfall and water flow in South Indian Rivers, originated from Western ghats. The present study is to investigate the suitability of ground water for potability, impacts on quality and hydrochemical trends with summer season in the period from April to May in Virudhunagar.

Twenty water quality parameters (WQPs) have been examined by using standard recommended procedure<sup>5</sup>. The exact location of the study area in Virudhunagar district namely Srivilliputtur, Rajapalayam, Sivakasi, Sattur, Virudhunagar and Arappukkottai lies between 11° 00' to 12° 00' latitude and 77° 28' to 78° 50' longitude. In order to ascertain the hydro chemical trend, thirty ground water (bore well) samples undertaken in summer season and analyzed.

Ground water potability for potable purposes and interrelationship of hydrochemical trends have also been analyzed by WQI<sup>6-8</sup>. Graphical methods such as Piper-trilinear diagram have also been applied in order to understand the impact of hydro-geochemistry or anthropogenic sources on ground water quality.

# Geochemical Processes In Soil And Groundwater Geoproc 2002 Research Report

**Sidney Draggan, John J.  
Cohrssen, Richard Morrison, Council on  
Environmental Quality (U.S.).  
Interagency Subcabinet Committee on  
Long-term Environmental Research**

## **Geochemical Processes In Soil And Groundwater GeoProc 2002 Research Report:**

Winning the Water War Agnes C. Rola, Herminia Arocena- Francisco, Jennifer P. T. Liguton, 2004 **The British National Bibliography** Arthur James Wells, 2003 **American Book Publishing Record**, 2004 *Globaler Wandel und regionale Entwicklung* Reinhard F. Hüttel, Rolf Emmermann, Sonja Germer, Matthias Naumann, Oliver Bens, 2011-05-30 In dem Band werden die Auswirkungen des globalen Wandels hinsichtlich der Nutzung der Ressourcen Wasser und Boden analysiert und mögliche Anpassungsstrategien diskutiert Auch wenn diese Fragen am Beispiel der Region Berlin Brandenburg untersucht werden haben die Autoren ihre Analysen und Empfehlungen bewusst so ausgestaltet dass sie auf vergleichbare Regionen übertragen werden können Mit ihrer interdisziplinären Perspektive bietet diese Untersuchung eine erste Orientierung für die Entwicklung geeigneter Anpassungsstrategien 5th ICEG Environmental Geotechnics Hywel R. Thomas, 2006 *Geochemical Processes in Soil and Groundwater* Horst D. Schulz, Astrid Hader, 2003-12-09 The central scientific question of the priority program was to improve the knowledge of geochemical processes in seepage and groundwater with the specific aim to quantify the impact of human influences From the very beginning the priority program was restricted to those questions that could be handled within the limited period of six years Hence we concentrated on three groups of substances Natural organic substances anthropogenic organic substances i.e. PAK BTEX PCB as well as metals relevant to the environment This volume has two slightly different objectives First of all it represents the international conference GeoProc2002 which took place in Bremen from March 4-7 2002 a meeting that was designed specifically to address the subject of geochemical processes in seepage and groundwater Over six years the German Science Foundation DFG funded priority program 546 Geochemical Processes with long term effects in anthropogenically affected seepage and groundwater The results of 6 years of research were presented at the GeoProc2002 conference and therefore this book also represents the conclusion of this priority program *Geochemical Processes, Weathering and Groundwater Recharge in Catchments* O.M. Saether, P. de Caritat, 2020-08-19 *Geochemical Processes Weathering and Groundwater Recharge in Catchments* is a specialist book concerned with the natural processes taking place where water interacts with minerals and organic matter at the earth's surface in soils or within aquifers It focuses on the all important interface between the hydrological and geochemical cycles in terrestrial ecosystems and is thus particularly relevant to understanding the environment The book is intended primarily as a reference text for graduate students in Earth Sciences Hydrology or Environmental Sciences but will be a useful introduction to those studying Chemistry Biology or Forestry Studies *Geochemical Processes Weathering and Groundwater Recharge in Catchments* presents an overview of the current status of knowledge of catchment studies with an outline of the challenges of future research *Geochemical Processes* Horst D. Schulz, Georg Teutsch, 2002 **Geochemical Processes, Weathering and Groundwater Recharge in Catchments** Ola M. Saether, Patrice de Caritat, 1997 *Geochemical Processes Weathering and Groundwater Recharge in Catchments* is a

specialist book concerned with the natural processes taking place where water interacts with minerals and organic matter at the earth's surface in soils or within aquifers. It focuses on the all important interface between the hydrological and geochemical cycles in terrestrial ecosystems and is thus particularly relevant to understanding the environment. The book is intended primarily as a reference text for graduate students in Earth Sciences, Hydrology or Environmental Sciences but will be a useful introduction to those studying Chemistry, Biology or Forestry Studies.

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**Geochemical and Hydrologic Processes and Their Protection** Sidney Draggan, John J. Cochrane, Richard Morrison, Council on Environmental Quality (U.S.). Interagency Subcabinet Committee on Long-term Environmental Research, 1987-06-11. In 1984 the Conference on Environmental Quality, the Environmental Protection Agency and the National Science Foundation convened a series of panel meetings to discuss long term environmental issues. Environmental Impacts on Human Health is the result of that prestigious conference. Drawing on contributions from nationally recognized scientists and experts from industry and government, this collection of papers will help to redirect long term environmental research and development. The book addresses four topic areas: surface and groundwater processes and pollution; land soil processes and pollution; atmospheric oceanic processes and pollution; and multimedia toxic substance hazardous waste research.

**Groundwater Geochemistry** William J. Deutsch, Randy Siegel, 2020-11-25. Groundwater Geochemistry Fundamentals and Applications to Contamination examines the integral role geochemistry plays in groundwater monitoring and remediation programs and presents it at a level understandable to a wide audience. Readers of all backgrounds can gain a better understanding of geochemical processes and how they apply to groundwater systems. The text begins with an explanation of fundamental geochemical processes followed by a description of the methods and tools used to understand and simulate them. The book then explains how geochemistry applies to contaminant mobility, discusses remediation system design, sampling program development and the modeling of geochemical interactions. This clearly written guide concludes with specific applications of geochemistry to contaminated sites. This is an ideal choice for readers who do not have an extensive technical background in aqueous chemistry, geochemistry or geochemical modeling. The only prerequisite is a desire to better understand natural processes through groundwater geochemistry.

**Geochemical Processes** Horst D. Schulz, Georg Teutsch, 2002-12-25. This book is a result of the Priority Programme 546 run by the Deutsche Forschungsgemeinschaft. It presents the various ideas, concepts and conclusions that resulted from this Programme on the subject of geochemical processes with long term effects in anthropogenically influenced drainage and ground water.

**Surface and Ground Water, Weathering, and Soils** J.I. Drever, 2005-11-21. Volume 5 has several objectives. The first is to present an overview of the composition of surface and ground waters on the continents and the mechanisms that control the compositions. The second is to present summaries of the tools and methodologies used in

modern studies of the geochemistry of surface and ground waters The third is to present information on the role of weathering and soil formation in geochemical cycles weathering affects the chemistry of the atmosphere through uptake of carbon dioxide and oxygen and paleosols preserved soils in the rock record provide information on the composition of the atmosphere in the geological past Reprinted individual volume from the acclaimed Treatise on Geochemistry 10 Volume Set ISBN 0 08 043751 6 published in 2003 Present an overview of the composition of surface and ground waters on the continents and the mechanisms that control the compositions Provides summaries of the tools and methodologies used in modern studies of the geochemistry of surface and ground waters Features information on the role of weathering and soil formation in geochemical cycles Contains information on the composition of the atmosphere in the geological past Reprinted individual volume from the acclaimed Treatise on Geochemistry 10 volume set

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*Groundwater Geochemistry* William J. Deutsch, Randy Siegel, 2013 This book offers an introduction to the geochemical processes in the subsurface that produce the composition of groundwater found in an aquifer It covers the basic processes from mineral dissolution and precipitation to adsorption desorption an understanding of which provides investigators with the knowledge to interpret the chemical evolution of groundwater and the tools to develop practical effective remediation methods The book also discusses the application of geochemical modeling for natural and contaminated sites Completely updated this second edition includes several new chapters and a new glossary

*Contaminant Geochemistry* Brian Berkowitz, Ishai Dror, Bruno Yaron, 2009-09-02 Combining earth science subsurface hydrology and environmental geochemistry this book provides a comprehensive background for those interested in the protection and sustainable management of the subsurface environment The reader is introduced to the chemistry of contaminants which usually disturb the natural equilibrium in the subsurface as a result of human activity One focus of the book is on contaminant reactions in soil solutions Discussions on case studies are provided

**Heterogeneous Processes of Geochemical Migration** V. S. Golubev, Artemiĭ Artashesovich Garibiĭants, Artemiĭ Artashesovich Garibiĭants, 1971 The problem of the geochemical migration of elements has received wide attention in the works of V I Vernadskii and A E Fersman 1 2J Vernadskii considered geochemistry to be the science of the history of chemical elements on the earth their distribution and move ments in space and time and their genetic relations IJ Geochemical migration was defined by Fersman as the movement of chemical elements in the earth s crust leading to their dissemination or concentration The views of Vernadskii and Fersman on the migration of elements have received added support and development in connection with successes in physics chemistry biology and other sciences According to Fersman the earth is looked upon as a cosmic body

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