


Personal Details

Name:	Josef Wolfgang WAGERER	
Qualifications:	Expert Hydrogeology 2007 (Sachverständiger für Hydrogeologie BVFS e.V.) Master of Science (GIS) 2004 Diplom-Mineraloge Univ. 1990 (eq. to MSc. in Geology)	
Profession:	Consulting Geologist approved by the Association of German Geologists BDG (Beratender Geowissenschaftler BDG)	
Specialisation:	Project Management and Consulting for Water Resource Management (Applied Geology, Hydrogeology and Geoinformation)	
Nationality:	German	
Date of Birth:	02 July 1963 in Bad Kötzing / Bavaria, Germany	
Civil Status:	common-law marriage	
Children:	one daughter	

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Key Qualifications

- Approved Consulting Geologist
- Expert for Hydrogeology and Water Resource Management
- Experience in international assignments and multinational expert teams
- 18 years of experience in managing geological projects of several sizes and different objectives
- 18 years of experience in teamwork with engineers, geologists, chemists and ecologists
- Strong skills in groundwater exploration, monitoring, analysis of aquifers and resource management
- Highly integrated methods in analyzing geological situations
- Excellent reporting skills in German and English
- Excellent computer literacy in CAD, GIS and geostatistics
- Well experienced in site supervision, drilling contracts and cost controlling
- Highly motivated and flexible

Educational Qualifications

01/02 – 03/04	Study of Geographical Information Systems and Science (Paris-Lodron-University Salzburg, Austria) reaching the academic title of a Master of Science (GIS) main subjects geodata management, openGIS, spatial analysis, project management, remote sensing
10/83 – 05/90	Study of Mineralogy (University Freiburg i.Br., Ludwig-Maximilian-University Munich, Technical University Munich) reaching the academic title of a Diplom-Mineraloge Univ. (equivalent to a MSc. in Geology) main subjects geochemistry, mineralogy, petrology, geophysics
1988 - 1990	Mineralogical-geochemical thesis on carbonates in alteration zones of Variscan Granites in Northern Bavaria being part of an EU research project at the Technical University Munich
1986 - 1990	Student assistant on several mineralogical projects at the Technical University Munich, e.g. petrology of granites, geochemical analysis (XRD, XRF, NAA, EDX), mineralogy of industrial minerals, clay mineralogy, sedimentology for archeological investigations, sea floor survey and sea drilling
1976 - 1983	Grammar School at the Benedictine Monastery of Metten / Bavaria, Germany

Advanced Trainings

02/08	Advanced training for experts, Hamm/Germany
04/06 – 06/06	IDRISI: Applications in Forestry, Center for Geoinformatics, University Salzburg/Austria
05/04	Training Leica GS50 differentialGPS, Leica geosystems, Munich
03/04	9. Advanced Training Seminar on Geoinformation Systems, Runder Tisch GIS e.V., Munich
03/03	8. Advanced Training Seminar on Geoinformation Systems, Runder Tisch GIS e.V., Munich
12/02	Seminar on openGIS, Center for Geoinformatics, University Salzburg/Austria
07/02	AGIT 2002, Center for Geoinformatics, University Salzburg/Austria
05/98	Graphic-based Groundwater Modelling, WASY, Berlin
03/97	Seminar Groundwater in Germany, University Freiburg/Br.
10/96	Calculation of Evapotranspiration, University Suderburg
04/95	Groundwater Modelling (Kinzelbach/Rausch), Academy Ostfildern
10/94	Seminar Monitoring Wells, Center for Groundwater Peine
07/93	Seminar on Building Law (VOB), Munich
04/92	Clay Mineralogy in Geological Engineering, LGA Nuremberg

Professional Experience

Development

(see detailed descriptions in the following section "Projects")

Date	Company	Position	Description
02/10 – pres.	Bavaria State Forestry (Baye-rische Staatsforsten AöR) Regensburg	Expert Hydrogeology	Planning of water supply and consulting for water related law in disaster management projects in Bavaria
06/09 – 03/10	Berchtesgaden National Park	Expert Water Resource Management	Hydrogeological investigations and forecasts on the water supply situation in the Königssee area
09/08 – 01/10	GTZ International Services, Riyadh, Saudi Arabia	Well Survey Manager	Management, controlling and evaluation of the water point inventory as part of the Wasia-Biyadh Water Resources Studies (Ministry of Water and Electricity, Riyadh, KSA)
09/08 – 03/10	Erdwerk GmbH, Consulting Geologists and Engineers, Munich, Germany	Cost Controller	Cost controlling for four deep drill hole sites in the Munich area
05/08 – 01/10	GTZ International Services, Riyadh, Saudi Arabia	Senior Expert Hydrogeology	Documentation of drilling works in SW Saudi Arabia (24 wells, depth 50 – 1,500 m), well completion reports (part of Wajid Water Resources Studies for Ministry of Water and Electricity, Riyadh, KSA)
06/07 – 04/08 and 07/08	Erdwerk GmbH, Consulting Geologists and Engineers, Munich, Germany	freelance Consultant	Exploration of geothermal energy at deep drill hole sites in Bavaria, site supervision and site planning for preliminary works; approval processes; consulting for water related law
01/08 – 02/08	Dr. Blasy – Dr. Øverland Consulting Engineers, Eching, Germany	freelance Consultant	Consulting for groundwater related law, Bavaria/Germany
08/07 - 11/07	GTZ International Services, Riyadh, Saudi Arabia	freelance Consultant	Evaluation of geophysical borehole loggings (part of Wajid Water Resources Studies in SW Saudi Arabia for Ministry of Water and Electricity, Riyadh, KSA), expert's report

11/06 – 04/07	Dornier Consulting GmbH, Branch Abu Dhabi (Office Riyadh, Saudi Arabia) / GTZ International Services	Senior Expert Hydrogeology	Bid Management for Groundwater Management Projects; Pre-Feasibility Study for Groundwater Development in SW Saudi Arabia, Reporting, Geodata processing, GIS-based cartography on (hydro-)geology in a National Water Resources Study, Saudi Arabia
06/06 – 09/06	Erdwerk GmbH, Consulting Geologists and Engineers, Munich, Germany	freelance Consultant	Exploration of a thermal water resource
01/03 – 05/06	Dr. Blasy – Dr. Øverland Consulting Engineers, Eching, Germany	freelance Consultant	Groundwater exploration, planning of drinking water wells, management of drinking water resources and protection areas, planning and supervision of monitoring programmes, spatial evaluations, expert's reports, supervision of drilling sites, contracts for drilling companies
03/05 – 02/06	Erdwerk GmbH, Consulting Geologists and Engineers, Munich, Germany	freelance Consultant	Exploration of geothermal energy and a thermal water resource at a deep drill hole site
04/98 – 12/04	Christian Weise publishers, Munich, Germany	GIS expert	CAD-/GIS-based cartography on geology and mineralogy worldwide for LAPIS
10/97 – 12/02	Dr. BLASY + MADER Consulting Engineers, Eching, Germany	freelance Consultant	Groundwater exploration, GIS-based catchment area studies for drinking water wells, risk analysis e.g. on disposal sites and motorways, groundwater modelling and monitoring, feasibility studies on groundwater exploration, studies and evaluations for flood protection, planning and supervision of drilling sites and hydraulic field tests, expert's reports
06/99	Authority for maritime navigation and hydrography (BSH) Hamburg, Germany	Assistant	Assistant Geologist for sea floor survey, seismic and sea floor drilling
09/99	Teacher's Academy, Dillingen, Germany	Planner and guide	Conception of a one week study trip on geology and mineral resources for geography teachers in Grammar School

02/92 – 09/97	Dr. BLASY + MADER Consulting Engineers, Eching, Ger- many	Employed geologist	Geological-geohydrological investigations on suitability of potential disposal sites, groundwater modelling, site supervision, evaluations, expert's reports
1/91- 01/92	Dr. Blasy – Dr. Busse GmbH, Eching, Ger- many	Site supervisor	Supervision of complete redevelopment of gasworks
10/91	Dr. Blasy – Dr. Busse GmbH, Eching, Ger- many	Sampler	Technician at redevelopment measures

Projects (representative selection)

Date	Company	Position	Projects
09/08 – 01/10	GTZ Interna- tional Services, Riyadh, Saudi Arabia	Well Survey Manager	Water Point Inventory, Wasia-Biyadh Water Resources Studies (East Saudi Arabia) <ul style="list-style-type: none"> - Team leader of well survey - Project management - GIS-based evaluation of well databases - Development of survey plans - Controlling and evaluation of field data - Expert's report
09/08 – 03/10	Erdwerk GmbH, Consulting Geologists and Engineers, Munich, Ger- many	Cost Con- troller	Exploration of geothermal energy, deep drill hole sites Aschheim and Unterföhring, Munich/Germany (ca. 2.600 – 3.100 m MD) <ul style="list-style-type: none"> - Cost controlling for four deep drill hole sites - Contract controlling
05/08 – 01/10	GTZ Interna- tional Services, Riyadh, Saudi Arabia	Senior Ex- pert Hydrogeology	Documentation of drilling works, Wajid Water Resources Studies, SW Saudi Arabia, ongoing <ul style="list-style-type: none"> - Drilling completion reports for 24 wells, 50 – 1,500 m - Evaluation of drilling data and pumping tests - Well completion logs - Documentation and reporting
08/07 - 11/07	GTZ Interna- tional Services, Riyadh, Saudi Arabia	freelance Consultant	Expert's Report "Geophysical Logging of Existing Wells", Wajid Water Resources Studies, Saudi Arabia <ul style="list-style-type: none"> - Evaluation of geophysical borehole loggings at 15 wells in SW Saudi Arabia - Data management and visualization - Expert's report

11/06 – 04/07	Dornier Consulting Branch Abu Dhabi / GTZ International Services, Riyadh, KSA	Senior Expert Hydrogeology	Groundwater Resources Management (Umm Er Radhuma and Wajid Aquifer Systems, Saudi Arabia) <ul style="list-style-type: none"> - GIS-based pre-feasibility study for the drinking water supply of the Asir Region - Bid management, technical and financial proposal for a water resources study and groundwater management plan in the Ar Riyadh Region - Technical review of a domestic water demand study - Processing and evaluation of census data in five regions - Technical and editorial review of a Final Report (14 Volumes) - GIS-based thematic cartography and 3D Model construction
03/05 – 02/06	Erdwerk GmbH Consulting Geologists and Engineers, Munich, Germany	Consultant	Exploration of thermal water and geothermal energy, Deep drill hole site Bad Wörishofen GT2 (2.600 m) <ul style="list-style-type: none"> - Interpretation of regional geological data and studies - Scientific documentation - Documentation of drilling works - Site supervision in teamwork - Interpretation of geophysical data
03/05 – 05/06	Dr. Blasy – Dr. Øverland Consulting Engineers, Eching, Germany	Consultant	Exploration of thermal water and geothermal energy, Deep drill hole site Bad Wörishofen GT2 (2.600 m) <ul style="list-style-type: none"> - Cost controlling - Contract controlling
03/98 – 10/05	Dr. Blasy – Dr. Øverland Consulting Engineers, Eching, Germany and Dr. BLASY + MADER Consulting Engineers, Eching, Germany resp.	Consultant	GIS-based catchment area studies and drinking water resource management city of Penzberg/Bavaria (five wells, ca. 50 boreholes, appr. 1,5 Mio m³/a) <ul style="list-style-type: none"> - Analysis of geohydrological system - Planning of drilling programmes and contracts - GPS mapping - Consulting - Planning and evaluation of hydraulic tests - GIS-based evaluations and DEMs - Analysis of conflicts and suggestions for solutions - Planning of a new drinking water well - Expert's reports and presentations - Groundwater related law

03/95 – 04/05	Dr. Blasy – Dr. Øverland Consulting Engineers, Eching, Germany and Dr. BLASY + MADER Consulting Engineers, Eching, Germany resp.	Consultant Employed Geologist	Groundwater monitoring at the Munich International Fair Trade Center (appr. 130 boreholes and wells, toxic wastes, subway construction site) - Planning and supervision of the monitoring programme - Cooperation with authorities and planning companies - Controlling of objectives - Spatial and time-related evaluations of flow situations - Consulting on hydraulic measures - Assessments of effects on the groundwater regime - Final expert's report
09/99 – 06/04	Dr. Blasy – Dr. Øverland Consulting Engineers, Eching, Germany and Dr. BLASY + MADER Consulting Engineers, Eching, Germany resp.	Consultant Employed Geologist resp.	Groundwater monitoring at the Munich Airport MUC II (80 monitoring wells, some 100 boreholes, 18 reports) - Controlling of authority defined objectives - Planning of the monitoring programme - Spatial evaluations of flow situations - Assessments of effects - 18 expert's reports with GIS-/CAD-based maps, cross sections, diagrams, hydraulic calculations
07/98 – 02/03	Dr. BLASY + MADER Consulting Engineers, Eching, Germany	Consultant	Groundwater exploration city of Weilheim/Bavaria (new 48 m-well, seven older wells, 18 monitoring wells, appr. 1,5 Mio m ³ /a) - Project planning - Exploration and investigations - Evaluation of seismic data - Planning and supervision of drilling programme - Planning of a new drinking water well and drilling contract - Scientific documentation of drilling results - Planning and evaluation of pumping tests - Groundwater modelling to result verification - Cost controlling - Expert's report and groundwater related law

03/98 – 10/02	Dr. BLASY + MADER Consulting Engineers, Eching, Ger- many	Consultant	Feasibility studies in groundwater exploration community of Icking/Isar valley (four wells, appr.. 100 boreholes, 60 chemical analysis, long term pumping test) <ul style="list-style-type: none"> - Project identification - Planning of drilling programme and test well - Analysis of geohydrological system - Planning, supervision and evaluation of a eight months pumping test with hydrochemical and biological analysis - Assessment of groundwater quality - Applications of permissions concerning groundwater and nature related law - Expert's report and suggestions for solutions
04/02 – 10/02	Dr. BLASY + MADER Consulting Engineers, Eching, Ger- many	Consultant	Risk analysis motorway A94 Simbach/Bavaria <ul style="list-style-type: none"> - GIS-/CAD-based system analysis - Hydrological mapping - Geodata management and visualization
07/01 – 10/01	Dr. BLASY + MADER Consulting Engineers, Eching, Ger- many	Consultant	Groundwater exploration deep drinking water well Ammersee West/Bavaria (220 m) <ul style="list-style-type: none"> - Planning a 220 m—drinking water well - Drilling contract - Site supervision and cost controlling - Planning and evaluation of geophysical borehole data and pumping test - Interpretation and evaluation of drilling results
07/01 – 10/01	Dr. BLASY + MADER Consulting Engineers, Eching, Ger- many	Consultant	Feasibility study on groundwater exploration near the city of Ingolstadt/Bavaria <ul style="list-style-type: none"> - Numeric groundwater modelling - Simulation-based planning of wells and resource management - Expert's report and suggestions
05/00 – 02/01	Dr. BLASY + MADER Consulting Engineers, Eching, Ger- many	Consultant	Risk assessment of a central disposal site at the Dep. of Pfaffenhofen/Bavaria (two disposal sites, three aquifers, appr. 25 monitoring wells, six-years-hydrochemical monitoring period) <ul style="list-style-type: none"> - Integration of complex geodata - Hydraulic and hydrochemical evaluations - Risk assessment of effects on groundwater quality - Expert's report describing geological situation and further suggestions

07/99	Dr. BLASY + MADER Consulting Engineers, Eching, Ger- many	Consultant	workshop on investigations of potential disposal sites for engineers from India with seminary and field trip
04/98 – 10/98	Dr. BLASY + MADER Consulting Engineers, Eching, Ger- many	Consultant	Flood protection planning near the city of Regensburg/Bavaria (four potential sites, appr. 20 boreholes) <ul style="list-style-type: none"> - Planning and supervision of drilling programmes - Evaluation of geophysical borehole data (FRACVIEW, DLL, SP, GR) - Planning and evaluation of packer tests - Geological interpretation - Expert's report and assessment of the suitability
02/92 – 11/97	Dr. BLASY + MADER Consulting Engineers, Eching, Ger- many	Employed Geologist	Investigations on suitability of potential disposal sites in the departments Regensburg, Neuburg, Kelheim/Bavaria (14 sites, appr. 90 monitoring wells, several aquifers, complex geological structures) <ul style="list-style-type: none"> - Cooperations with authorities, lawyers and residents - Planning and supervision of drilling programmes with several techniques - Controlling drilling contracts - Planning and evaluation of hydraulic field tests - Groundwater related law - Spatial analysis - Scientific documentations - Geological mapping - Digital elevation models - Geological interpretations - Assessments and expert's reports
03/96 – 11/96	Dr. BLASY + MADER Consulting Engineers, Eching, Ger- many	Employed Geologist	Effects of gravel pits on nature reserve areas, Gundelfingen/Bavaria (approx. 15 lakes, 50 monitoring wells, three aquifers) <ul style="list-style-type: none"> - Regional groundwater modelling - Integration and data management of long term monitoring data - Hydrological mapping - Calculations of evapotranspiration rates - Simulation of mining scenarios - Suggestions on optimization
11/91 – 01/92	Dr. Blasy – Dr. Busse GmbH, Eching, Ger- many	Freelance Site Super- visor	Redevelopment of the gasworks in the city of Landshut/Bavaria <ul style="list-style-type: none"> - Site supervision - Assessment of risk potential of strata - Cost controlling

Computer Skills

(from * - basic to *** - excellent)

CAD	AutoCAD	***
GIS	ESRI ArcView 3.x, ArcGIS 9.x, ArcScene	***
	IDRISI Kilimanjaro 14	**
	AutoCAD Map 2004	**
GPS and mobile GIS	Leica GISDataPro, ESRI ArcPad	***
Geostatistics	Golden Software Surfer and Grapher	***
Borehole Data Management	FUGRO GeoDIN 5	**
Spreadsheet calculating	MS Excel	***
DBMS	MS Access, SQL	**
Remote sensing	ERDAS Imagine	**
Groundwater modelling	MODFLOW, PMWin	***
	WASY FEFLOW	*
Presentation	MS Powerpoint, Adobe Photoshop, MS Frontpage	***
	Net Objects Fusion, MS Publisher	**

Language Skills

(from 1 - excellent to 5 – basic)

Language	Speaking	Writing	Reading
<u>German</u>	mother tongue		
English	1	1	1
French	3	3	2
Spanish	4	4	3

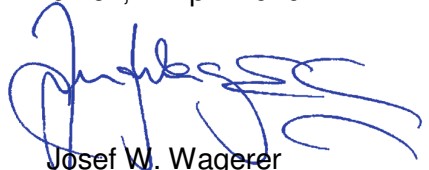
Other Skills

- Well experienced in organizing projects and conceptual work
- Very good knowledges in differentialGPS survey and navigation
- Very good knowledges in common drilling techniques and site supervision
- Good to fair knowledges in remote sensing, GIS in forestry, disaster management and analyzing geo-hazards

Professional Memberships

- Association of German Geologists (Berufsverband Deutscher Geowissenschaftler), Bonn/Germany
- German Association of Free Experts (Bundesverband Freier Sachverständiger e.V.), Düsseldorf/Germany
- Club UNIGIS, University Salzburg/Austria

Munich, in April 2010



Josef W. Wagerer